University Catalog 1979–1980

Miami, Florida

# Florida International University



### ACADEMIC CALENDAR, 1979–80 FLORIDA INTERNATIONAL UNIVERSITY

#### FALL QUARTER 1979

June 22	Last day for Receipt of Admissions Application for International Students Applying to the Fall Quarter.
July 30–Aug. 3	Official Registration Week for the Fall Quarter
September 3	Labor Day Holiday (University Closed)
September 4	Last Day for Receipt of Applications (Including Appropriate Credentials) for Regular Admissions to Fall
	Quarter
September 24	Registration Day
September 25	Classes Begin
	Drop and Add Period Begins
October 1	Last Day to Complete Late Registration
	Drop and Add Period Ends
	Last Day to Drop Courses or Withdraw from the University
	Without Incurring a Financial Liability
	Last Day to Pay Fees Without a \$50.00 Late Fee
	Last Day to Pay Fees to Avoid Cancellation of Enrollment
October 15	Last Day to Apply for Fall Quarter Graduation
October 22	Last Day to Reinstate Cancelled Enrollments
November 5	Last Day to Drop a Course with a Grade of DR
	Last Day to Withdraw from the University with a WI Grade
November 5–9	Official Registration Week for the Winter Quarter
November 12	Veterans Day Holiday (University Closed)
November 22, 23	Thanksgiving Holiday (University Closed)
December 14	Classes End
December 15	Official Commencement Exercises
December 25	Christmas Holiday (University Closed)

#### WINTER QUARTER 1980

November 5-9	Official Registration Week for the Winter Quarter
November 26	Last Day for Receipt of Admissions Application for International Students Applying to the Winter Quarter
December 17	Last Day for Receipt of Applications (Including Appropriate Credentials) for Regular Admissions to Winter
	Quarter
January 1	New Year Holiday (University Closed)
January 7	Registration Day
January 8	Classes Begin
	Drop and Add Period Begins
January 14	Last Day to Complete Late Registration
	Drop and Add Period Ends
	Last Day to Drop Courses or Withdraw from the University
	Without Incurring a Financial Liability
	Last Day to Pay Fees Without a \$50.00 Late Fee
	Last Day to Pay Fees to Avoid Cancellation of Enrollment
January 28	Last Day to Apply for Winter Quarter Graduation
February 4	Last Day to Reinstate Cancelled Enrollments
February 18-22	Official Registration Week for the Spring Quarter
February 18	Last Day to Drop a Course With a Grade of DR
	Last Day to Withdraw from the University with a WI Grade
March 21	Classes End

### **Florida International University**

#### Miami, Florida



1979-80 Catalog

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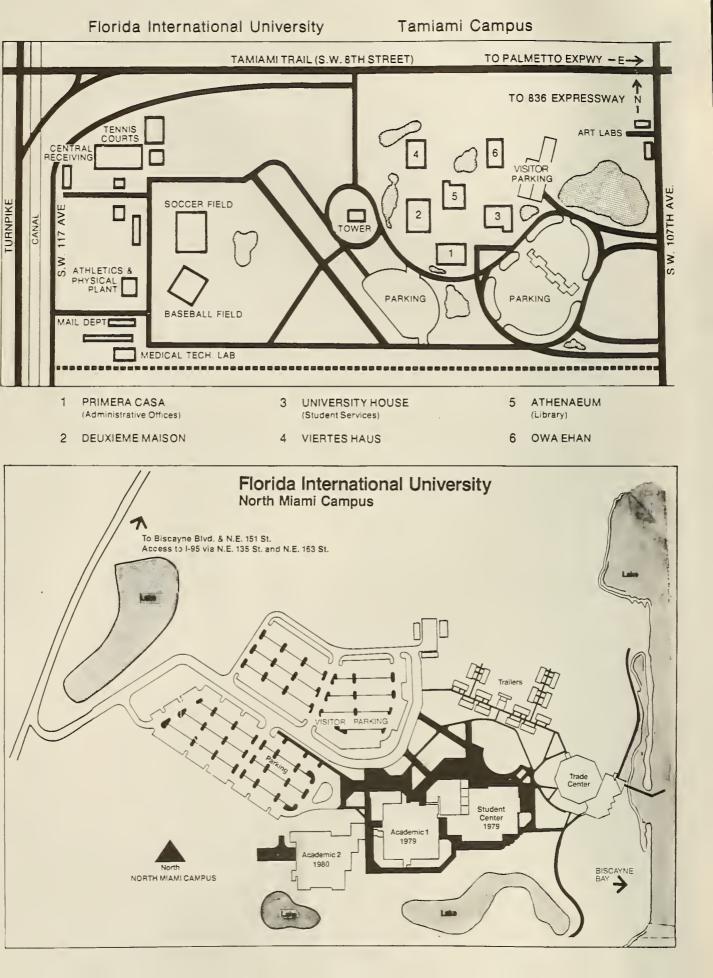
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### The State University System

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



### Florida International University 1979–1980

#### Miami, Florida

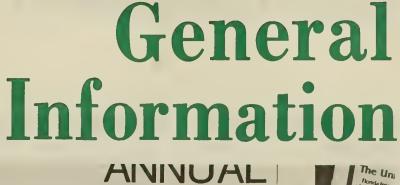
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INTERNATIONAL CINEMA SERIES

# **General Information**

#### State Board of Education

D. Robert Graham Governor George Firestone Secretary of State James C. Smith Attorney General Gerald Lewis Comptroller Doyle Conner Commissioner of Agriculture Ralph D. Turlington Commissioner of Education William D. Gunter, Jr. Treasurer

# Florida Board of RegentsJames J. Gardener, ChairmanFort LauderdaleJack McGriff, Vice ChairmanGainesvilleJ. J. Daniel,JacksonvilleMarshall M, CriserPalm BeachT. Terrell SessumsTampaWilliam L, MaloyPensacola

C. DuBose Ausley Betty Anne Staton Murray H. Dubbin John Goldsmith E. T. York, Jr.

Laurman Fort Lauderdale Chairman Gainesville Jacksonville Palm Beach Tampa Pensacola Tallahassee Orlando Miami Student Regent University of South Florida Chancellor, State University System

#### Florida International University Officials

Gregory Baker WolfePresidentRobert FisherVice President for<br/>Academic AffairsRonald A. ArrowsmithVice President for<br/>Administrative AffairsJudy M. MerrittVice President for<br/>Student AffairsTerry SpenceDean<br/>University Relations

#### Goals

Florida International University, a member institution of the State University System of Florida, presently offers upper level and graduate programs designed to achieve three goals:

Education of Students—To provide university education for qualified students which (a) prepares them for useful careers in social service, business, industry, education and the professions: (b) furnishes them with opportunities to become effective members of society: and (c) offers them an appreciation of their relationships to their cultural, aesthetic and technological environments.

Service to the Community—To serve the greater community, with a primary emphasis on serving the Greater Miami and South Florida area, in a manner which enhances the metropolitan area's capability to meet the ecological, cultural, social and urban challenges which it faces.

Greater International Understanding—To become a major international education center with a primary emphasis on creating greater mutual understanding among the Americas and throughout the world.

### History

Florida International University was established by the Florida State Legislature on June 22, 1965. Classes began on September 19, 1972. at the Tamiami campus with an initial enrollment of 5,667 undergraduate and graduate students.

Early in 1973, the Inter-American Center Authority deeded a tract of land to the Board of Regents for a second campus of Florida International University, The University's first building on the North Miami campus was completed during 1976.

The Florida Board of Regents appointed the

founding president. Charles E. Perry, on July 11, 1969. He was succeeded on June 1, 1976, by former University of West Florida President and Regents Professor Harold Brian Crosby. Gregory Baker Wolfe was named the third president of Florida International University on February 16, 1979. President Wolfe came to the university from the American University in Washington, D.C., where he was Dean and Professor of International Relations. Prior to that he was President of Portland State University in Oregon and had a distinguished international career with the White House and the Department of State in Washington, D.C.

#### Campuses

The University currently has one major campus location in Southwest Dade County with a second major campus in North Miami.

The Tamiani Campus is located 10 miles west of downtown Miami on the Tamiami Trail (SW Eighth Street) between SW 107 and 117 Avenues. The North Miami Campus is located at the northern tip of Biscayne Bay, just east of Biscayne Boulevard between NE 135 and 151 Streets. Both campuses are operated under a central administrative plan.

#### Building Program Florida International University, Tamiami Campus

The Tamiami Campus is located on a 344 acre site in west central Dade County. Since 1970, six major buildings have been constructed at a cost of \$38 million. The campus building plan includes several other structures to accommodate growth needs of 15,000 students.

The campus plan is designed as an interactive complex of facilities connected by internal

courts for pedestrian access. The complex is surrounded by a natural buffer of lakes and green areas to provide passive areas for study and relaxation.

Primera Casa, the first major building of the Tamiami Campus, opened in 1972, Its five floors house classrooms, laboratories, computer facilities, and administrative offices.

Deuxieme Maison, the second building, opened early in 1973. The four-story structure houses classrooms, lecture-theatres, academic program and faculty offices.

University House accommodates Student Affairs offices, recreation and lounge areas, cafeteria, a bookstore, an international conference theatre, and a classroom-auditorium seating 200 persons. The building was opened early in 1974.

Viertes Haus, a three-story structure opened early in 1975, houses Technology and Fine Arts laboratories, the experimental theatre, and media production facilities. The central utility plant, which serves the entire campus, was constructed adjacent to Viertes Haus and opened at the same time.

Athenaeum, which houses the Library and the film library of the media center, opened in the Fall of 1975. This structure also includes a divisible auditorium seating 540 persons for lectures or performances.

Owa Ehan, the sixth building, was completed in Fall 1977. This three story structure houses laboratories. faculty offices, classrooms, and specialized facilities for Physical Sciences, Biological Sciences, Health Sciences, and Hospitality Management.

The existing student recreation facilities at the west part of the Tamiami Campus will be expanded in the future, integrated with a teaching gymnasium which will be constructed as resources become available.

# **Academic Degree Programs**

#### Florida International University, North Miami Campus

Florida International University's North Miami Campus is located on a 106 acre site in North Dade County on Biscayne Bay. The campus development plan includes structures to accommodate growth needs for 15,000 students.

Trade Center Building, the first building on the campus, was purchased from the Inter-American Center Authority and remodeled for University use in 1976. The three-story structure includes the Library, Media Services, Student Affairs, Bookstore, Computer Center, faculty offices, classrooms, and campus administrative offices.

Academic Building One, opened the Fall of 1979, and houses classrooms, faculty offices, Admissions and Registration offices.

Student Affairs Building, scheduled to be completed by winter, 1980, will include Student Activities offices, Cafeteria, Bookstore, Student Affairs offices, recreational space, a large lecture hall, and classrooms.

Academic Building Two, now in planning stages, will be a laboratory/classroom and faculty office complex, including some Science and Technology facilities. This facility will be complete in early 1981.

Future academic buildings, a library building, an auditorium, and a major conference center will be completed as resources become available. Student recreation facilities are being planned, including a Racket Sports Complex which should be complete in late 1980.

#### General Academic Information

Florida International University offers a variety of academic programs and courses at the bachelor's and master's degree levels, all designed to respond to the changing needs of the growing metropolitan area of Dade County and South Florida. Upper level bachelor's programs and courses are offered in the College of Arts and Sciences and the five professional schools-Business and Organizational Sciences, Education, Public Affairs and Services, Hospitality Management, and Technology. Graduate study at the master's level is available in the Schools of Buisness and Organizational Sciences, Education, Public Affairs and Services, Hospitality Management and Technology.

Note: The programs, policies, requirements

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

#### Accreditation and Memberships

All academic programs of Florida International University are approved by the State Board of Education and the Board of Regents of Florida.

The University is an accredited member of the Southern Association of Colleges and Schools. The professional programs of the respective schools of the University are accredited or approved by the appropriate professional associations, or are making satisfactory progress toward full professional accreditation or approval.

The University is also an affiliate member of the Association of Upper Level Colleges and Universities, the American Association of State Colleges and Universities, the Florida Association of Colleges and Universities, the Association of Caribbean Universities and Research Institutes, the American Association of Community and Junior Colleges, the Union of Experimenting Colleges and Universities, a Charter Member of the Southeast Florida Educational Consortium, and numerous other educational and professional associations. The following agencies have accredited professional programs at Florida International University: The American Dietetics Association

The American Physical Therapy Association

The American Occupational Therapy Association

The American Medical Association National Accreditation Agency for Clinical Lab Sciences

The American Society of Clinical Pathologists The American Medical Records Association The Council on Social Work Education Engineers Council for Professional Development

#### Southeast Florida Educational Consortium

Florida International University, Broward Community College, and Miami-Dade Community College are charter members of the Southeast Florida Educational Consortium established in 1977. The organization links the member institutions in planning, maintaining, and evaluating cooperative efforts in academic programs, student services, and administrative support services. The overall objectives of the Consortium are to:

- Increase and improve educational opportunities.
- 2) Ensure smooth transition from the community college to the university.
- Provide easy access to institutional services for students and faculty.
- Effectively utilize human and fiscal resources.

The Office of the Consortium is located at 11011 S.W. 104 Street, Miami, Florida 33176.

The Consortium is governed by a Steering Committee, has an Executive Director, and currently has 16 committees/task forces: Academic Programs; Admissions, Registration, Records; Academically Underprepared Students; Audio-Visual; Career Planning and Placement; Cooperative Education; Facilities; Financial Aid; Handicapped Students; Institutional Research; Libraries; Physical Plant; Public Information; Student Activities; Superior Students; Veterans Affairs; Ad Hoc groups are formed to meet other specific needs.

Descriptions of specific cooperative arrangements between the Consortium campuses—and student/faculty procedures—are given in the appropriate sections of this Catalog.

### Academic Programs Academic Majors Leading to the Bachelor's Degree

# College of Arts and Sciences

Anthropology \*Art \*Biological Sciences \*Chemistry \*\*Computer Science Earth Sciences Economics \*English Environmental Studies French Liberal Studies \*Mathematics \*Music Philosophy Physics Political Sciences \*\*Phychology Religious Studies Sociology \*Spanish Statistics

#### GEN 4

### **General Information**

# **Academic Degree Programs**

Theatre

- \*\*Humanities
- \*\*International
- Relations

\*History

\*Note: In accordance with University regulations for two majors or two degrees (see page 00), students in these programs may request admission into the programs of the School of Education leading to teacher certification in the corresponding subject matter areas. To do so, they must obtain the approval of their college major advisor and of the Chairperson of the appropriate department in the School of Education.

\*\*Note: One of the initial academic major programs to be offered at the North Miami Campus.

# School of Business and Organizational Sciences

Accounting Finance Insurance International Business Management Management Information Systems Marketing Personnel Management Real Estate Transportation

### **School of Education**

Adult Education (under development) Art **Bilingual Education** (under development) **Biological Sciences Business and Office** Education Elementary Education Emotional Disturbances English Health Education Health Occupation Education History Home Economics Human Relations Education (under development) Industrial Arts

Intercultural Education (under development) Mathematics Mental Retardation French Education German Spanish Education Music **Physical Education** (1 - 12)**Physical Sciences** Parks and Recreation Social Studies Specific Learning Disabilities Technical Education Vocational Industrial Education

The approval of the major advisor and of the Chairperson of the appropriate college department must be acquired.

*Note:* Interdisciplinary programs are offered by the Schools of Education and Technology. With the concurrence of major faculty advisors, a student may elect to pursue a program leading to either two degrees or two majors, in which cases the student must complete the 90 hour requirement for one and an additional 45 hour requirement for the other.

#### School of Hospitality Management

General Hospitality Management Hotel-Motel Management International Hotel Management Restaurant and Food Service Management Tourism and Travel Management

# School of Public Affairs and Services

Criminal Justice Health Services Administration Public Administration Social Work

### School of Technology

Architectural Technology Civil Engineering Technology Communications Technology Construction Engineering Technology Construction Management Dietetics and Nutrition Electrical Engineering Technology Environmental Urban Systems

Home Ecomomics Industrial Systems Interior Design Mechanical Engineering Technology Medical Records Administration Medical Technology Occupational Therapy Physical Therapy

### Academic Majors Leading to the Master's Degree

#### College of Arts and Sciences

Biology (offered jointly with FAU) Chemistry (offered jointly with FAU) Community Psychology Environmental and Urban Systems (offered jointly with School of Technology) Mathematical Sciences Physics (offered jointly with FAU) Paychology (offered jointly with FAU) Psychology (offered jointly with FAU)

#### School of Business and Organizational Sciences

Business Administration Management: concentrations in Accounting (Including Taxation) Finance Real Estate

International Business

\*Note: At the time this catalogue went to press, no final decision had been made as to whether full undergraduate programs, graduate program, or both will be offered at the North Miami Campus. It may be necessary for students to take some or all of their required coursework at the Tamiami Campus.

# **Academic Degree Programs**

#### **School of Education**

Curriculum and Instruction	on: concentrations in
Early Childhood	Modern Language
Education	Education
Elementary	Music
Education	Physical Education
Reading	Parks and Recreation
Art	Administration
Science Education	Social Studies
English	Technical Education
Adult Education,	TESOL
General	Vocational Industrial
Health Education	Education
Home Economics	<b>Bilingual Education</b>
Education	(under
Industrial Arts	development)
Intercultural	Urban Education
Education (under	(under
development)	development)
Mathematics	
Psycho-Educational Servi	ices: concentrations in
Emotional	Counselor Education
Disturbances	School Psychology
Mental Retardation	
Specific Learning	
Disabilities	

#### School of Hospitality Management

Hotel and Food Service Management

# School of Public Affairs and Services

Criminal Justice Health Services Administration Public Administration

#### School of Technology

Dietetics and Nutrition Environmental & Urban Systems

### Academic Majors Leading tp the Doctoral and Specialist Degrees

#### School of Education

The School of Education with cooperating state universities in Florida. Educational Administration and Supervision Curriculum and Instruction Community College Education (under development) Urban Educational Policy and Administration (under development) Adult Education (under development) Bilingual Education (under development) International Development Education (under development) School Psychology (under development) Technical Vocational Education (under development) Special Education (under development)

### **Academic Degrees**

# College of Arts and Sciences

Bachelor of Arts Bachelor of Fine Arts Bachelor of Music Bachelor of Science Master of Science in Community Psychology Master of Science in Mathematical Sciences

# School of Business and Organizational Sciences

Bachelor of Business Administration Master in Business Administration Master of International Business Master of Science in Management

#### School of Education

Bachelor of Science Master of Science Specialist in Education Doctor of Education

#### School of Hospitality Management

Bachelor of Science Master of Science in Hotel and Food Service Management

# School of Independent Studies

Bachelor of Arts Bachelor of Fine Arts Bachelor of Science Bachelor of Business Administration Bachelor of Technology

# School of Public Affairs and Services

Bachelor of Science in Criminal Justice Master of Science in Criminal Justice Bachelor of Health Services Administration Master of Health Services Administration Bachelor of Public Administration Master of Public Administration Bachelor of Science in Social Work

### **School of Technology**

Bachelor of Science Bachelor of Technology Master of Science



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# Academic Degree Programs

### North Miami Campus Academic Program

The second major campus of the University opened in June 1977. The academic major programs listed below will be offered at the North Miami Campus during the 1979-80 academic year with sufficient courses planned to be scheduled at the North Miami Campus to satisfy full degree requirements. Selected courses from academic majors, other than those listed, and many electives will be offered and may be taken in partial fulfillment of degree requirements. Students are advised to review the quarterly course listing to determine if desired subjects are offered at North Miami.

The degree requirements and other academic rules and regulations apply equally to both campuses of the University. Those interested in programs at either location should consult the requirements listed elsewhere in this catalog or see an academic advisor in the appropriate department or division.

The course offerings for each academic quarter are listed in the course schedule published prior to the registration period.

College/School College of Arts and Sciences	<i>Level</i> Undergraduate	Major Program Humanities Psychology International Relations (minor in Political Science) Computer Science
School of Business and Organizational Sciences	Undergraduate	Accounting Finance Insurance Management Marketing
	Graduate	Master of Business Administration Master in Management Accounting
School of Education	Undergraduate	Emotional Disturbances Mental Retardation Specific Learning Disabilities Elementary Education
	Masters Doctorate	Emotional Disturbances Mental Retardation Specific Learning Disabilities Elementary Education Bilingual Education (under development) Educational Administration & Supervision Adult Education Vocational Technical Education (under development) Curriculum and Instruction Human Relations Education (under development) Intercultural Education (under development) School Psychology (under development) Bilingual Education (under development) Bilingual Education (under development) Educational Administration & Supervision Adult Education (under development) Educational Technical Education (under development) School Psychology (under development) Vocational Technical Education (under development) School Psychology (under development) Community College Education (under development)
School of Public Affairs and Services	Undergraduate Graduate	Criminal Justice Health Services Administration Social Work Public Administration Master of Science Criminal Justice Master of Health Services Administration
		Master of Public Administration
School of Technology	Undergraduate	Communications Medical Records Administration

# **Certificate Programs**

### Certificate Programs at Florida International University

Certificate Programs at FIU are combinations of courses with a common base or interest, selected from one or more academic disciplines and so arranged as to form an area of academic concentration. Two types of certificates are awarded by the College or Schools.

Academic Certificate—awarded with the bachelor's degree; or, upon completion of an approved area of concentration, to a student already possessing a bachelor's degree. This certificate is interdisciplinary in nature.

*Professional Certificate*—awarded to a student upon completion of an approved area of concentration. This certificate need not be interdisciplinary in nature or associated with the bachelor's degree.

#### **Certificate Programs**

Apparel Management Banking Certificate Program Bilingual Education (under development) Caribbean-Latin American Studies Certificate Program Consumer Affairs Certificate Program Educational Administration (under development) Emergency Medical Services Certificate Program Ethnic Studies Certificate Programs: Black, Jewish, Cuban, Comparative Food Technology Heating, Ventilating and Air Conditioning Design Certificate Program Industrial and Labor Relations Industrial Safety Certificate Program Information Systems International Development Education (under development) Instructional Development Education (under development) Insurance Certificate Program Linguistics Studies Certificate Program Marketing Marketing Certificate Marine Science Certificate Program Personnel Administration Certificate Program Production and Manufacturing Savings and Loan Certificate Program Technical-Vocational Education (under development)

Transportation Management Certificate Program

Western Social and Political Thought Certificate

#### Apparel Manufacturing Management Certificate Program

The professional certificate in Apparel Manufacturing Management is awarded to persons who demonstrate manufacturing management competencies specifically related to the apparel industry. This certificate is primarily designed to meet the needs of those presently employed in the apparel industry who desire the management skills necessary for career effectiveness and mobility. The courses are planned and taught under the guidance of an advisory committee of local leaders in the apparel industry.

A Certificate in Apparel Manufacturing Management will be awarded upon satisfactory completion of thirty credits as listed in the Certificate requirements. These courses may be taken by Special Students with the advice of the Certificate Program Director. Students should complete an application form at the time of their first course registration.

#### Banking Certificate Program

The Certificate in Banking core program consists of four undergraduate/graduate finance courses representing approximately 200 contact hours between instructors and participants. Participants enrolled in the certificate program may elect to take each course for a grade or on a credit only basis. Either undergraduate or graduate credit may be awarded to those students enrolled for a grade who successfully fulfill the course requirements. Upon successful completion of the four course sequence, a certificate signed by the Dean of the School of Business and Organizational Sciences will be awarded.

The program should be of interest to persons currently employed in banking and who wish to sharpen their knowledge and skills, management track personnel, individuals who sell bank services and individuals (although not currently employed in banking) who desire a career in bank management. The program has been designed by the Florida International University Finance and International Business Department in cooperation with several Florida commercial banks.

The program has qualified for tuition reimbursement by many of the participating institutions. Prospective participants should see their personnel officer or training director for additional information concerning tuition reimbursement.

The program goals include: acquainting the participant with the investment, financing, and other policy decisions within the scope of the corporate finance officer's authority structure; acquainting the participant with the functioning of the authority structure; acquainting the participant with the function of the American capital market and the institutions which service these markets; surveying commerical bank management techniques and methods of operation (emphasis is placed on the goals of the commercial bank and the methods of obtaining these goals); and to develop within the participant the ability to systematize the business loan evaluation process such that a sound rational credit-loan decision can be made.

#### Caribbean-Latin American Studies Certificate Program

Caribbean and Latin American Studies at Florida International University represents one way in which the University fulfills its commitment to furthering international understanding. The Caribbean-Latin American Studies Certificate Program encourages students to take an interdisciplinary approach to the study of the Caribbean and Latin America. The Certificate is awarded to both degree and non-degree students who have successfully completed the Certificate requirements. For students pursuing a bachelor's degree, the Certificate Program should be understood as a complement to the students' regular, major area or discipline of study. For non-degree students, the Certificate represents one way in which a fuller, more complete understanding of the Caribbean and Latin America can be gained without pursuing a full course of study at the University.

#### Consumer Affairs Certificate Program

The certificate program in consumer affairs in intended to provide a sound educational base for those dealing with consumer affairs matters as buyers or sellers. The courses leading to the certificate can serve those pursuing careers in consumer affairs, and provide personal benefit to individuals in their roles as consumers.

The certificate program is intended to provide business, government, industry, and labor with a resource for educating selected personnel

# **Certificate Programs**

in a broad range of subject matter related to consumer affairs.

#### Emergency Medical Services Certificate Program

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The objective of the program is to train managers of EMS systems (such as Emergency Departments in hospitals, fire rescue squads and coast guard), to manage efficient and effective EMS systems. In addition, the program is designed to help planners, coordinators and evaluators in local, regional and state level EMS systems to make better decisions in an environment that is rapidly changing.

The program is oriented to those people who 'are already in the field of emergency medical services, with the intention of meeting the individual needs of these trainees, considering their expertise, areas of responsibility and time available for training. The program will educate them so that they are better prepared to provide expertise either in the developmental or operational phases of local, regional and state EMS systems.

#### Ethnic Studies Certificate Programs: Black, Jewish, Cuban and Comparative

The College of Arts and Sciences offers the student programs in ethnic studies in recognition of the place ethnic studies enjoys in social sciences and humanities and of its importance in today's world. The programs seek to establish a proper balance between academic goals and objectives and the ongoing concerns of the University's local and international constituencies. The programs address four specialized areas: Black studies, Jewish studies, Cuban studies, and comparative studies.

Specialized courses in Black studies include: Afro-American Anthropology, Area Studies, Social Conflict in Multi-Ethnic Societies, Regional Literature in English, Special Topics, Major American Literary Figures, Individuals, and History and Evolution of Jazz.

Specialized courses in Jewish studies include: Political Urban Jewish Leadership. International Relations of the Middle East. Population and Geography of the Middle East, and the Prophets.

Specialized courses in Cuban studies include: Cuban History, Latin American and Caribbean Social Structures, Third World Theory, Genre Studies (with reference to Cuban literature). The Economic Development of Cuba, and International Relations of the Caribbean.

Core courses/comparative studies include: Minorities, Ethnic Politics, Ethnicity and Nationality, Economics of Race and Sex Discrimination, and Attitudes and Ethnicity.

### Food Technology

This program provides the student with the specialized knowledge in the purchase of fresh produce, storage, processing, packaging and distribution of food products.

#### Heating, Ventilating and Air Conditioning Design Certificate Program

The purpose of this professional certificate program is to produce a learning experience that will enhance the design capabilities of professionals in the field. Emphasis will include the engineering science background as well as the practical applications of systems design.

#### Industrial and Labor Relations

This program provides the student with the specialized knowledge in labor studies, collective bargaining and labor-management relations.

#### Industrial Safety Certificate Program

The objectives of the professional certificate program in industrial safety is to present an integrated learning experience that will provide the student with a minimum level of expertise in the specialized area of Occupational Safety. Particular emphasis will be placed on application, interpretation and administration of the Federal Occupational Safety and Health Act and other regulations in an industrial setting. The Program is intended to provide skills which will be directly applied in industry.

#### Insurance Certificate Program

The certificate program in professional insurance accomplishment is designed to enable individuals in, or wishing to enter, the insurance industry to obtain recognition for their attainments in insurance education.

The courses leading to the certificate may be taken by both degree-seeking students as part of their regular programs, or, by special non-degree-seeking students who may be seeking professional recognition and qualifications.

The Certificate Program requires participants to obtain 30 quarter hours, or six five-credit hour classes, in senior (4000) level insurance courses. The Insurance Certificate requires participants to take five required courses and one elective course.

#### Linguistics Studies Certificate Program

While the University does not offer an undergraduate degree in linguistics studies, it does provide a certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of linguistics. This certificate is designed to meet the needs of those who have a general interest in linguistics studies, as well as those for whom work in linguistics would assist in career planning or advancement.

#### Information Systems Certificate Program

This program is designed as a three course sequence for systems professionals and users heavily involved in information systems development activity. These courses may be taken as a part of a regular degree program, or by special students not pursuing a formal degree. The purpose of the program is to provide advanced study to complement the work experience of practitioners who deal with information systems problems on a regular basis.

### Marketing Certificate

The Certificate in Marketing Program is open to both degree and non-degree seeking students interested in acquiring knowledge and skills in Marketing and documentary evidence of this accomplishment. The Certificate program is aimed specifically at majors throughout the University, particularly those students in the College of Arts and Sciences and Professional Schools, and at individuals currently working in the business world. The Certificate program seeks to enhance individual capabilities for the discharge of responsibilities at a high performance level while giving a measure of professional recognition for the achievement of significant competence in the field. The program is not open to marketing majors.

The Certificate Program is comprised of a set of six five-credit hour undergraduate marketing courses—one introductory course at the junior (3000) level, the prerequisite for all the other

# Admission

courses in the program, and five at the senior (4000) level.

#### Marine Science Certificate Program

The Marine Science Program is designed to meet the needs of students whose general interests are geared to the natural sciences, environmental sciences or engineering. The traditional disciplines of biology, chemistry, physics and geolgy are reflected in the four courses required for the certificate in marine sciences. The broad background, in turn, prepares students for work in technical fields, for advanced graduate work, or for secondary school teaching.

#### Personnel Administration Certificate Program

The objective of this program is to provide training in advanced personnel management techniques and methods to personnel professionals who do not necessarily wish to seek a degree. The program is aimed at developing immediately applicable skills in individuals who are assumed to already have adequate foundation in the concepts and role of the personnel management function. A certificate of completion signed by the dean of the School will be awarded to any student who completes the program of four five-credit hour courses (20 hours total) in the personnel management area of concentration at the graduate level.

# Production and Management

This program provides the student with the specialized knowledge in the processes, cost, planning and control of manufactured products.

#### Savings and Loan Certificate Program

The program consists of four undergraduate/ graduate finance courses representing approximately 200 contact hours between instructors and participants. Participants enrolled may elect to take each course for a grade or on a credit-only basis. Upon successful completion of the four-course sequence, a certificate signed by the Dean of the School of Business and Organizational Sciences will be awarded.

The program should be of interest to persons currently employed at the middle management level in a savings and loans institution who wish to sharpen their industry knowledge, i.e., branch managers, auditors, data processing people, management track personnel, individuals who sell services and individuals (although not currently employed in savings and loan institutions) who desire a career in savings and loan management. The program has been designed by the Florida International University Finance and International Business Department in cooperation with several Florida savings and loans institutions. The program also qualifies for tuition reimbursement at many of the participating institutions. See your personnel officer or training director for additional information.

The program goals include: acquainting the participant with the functioning of the American capital markets and the institutions which service these markets; to survey savings and loan management techniques and methods of operation. Emphasis is placed on the goals of the savings and loans institutions, and the methods of reaching these goals; and to develop within the participant the ability to systematize the loan evaluation process such that a sound rational credit-loan decision can be made. With the savings and loan program, emphasis will be placed upon the comprehension of the savings, investment, insurance and annuity goals of the individual (personal finance).

#### Transportation Management Certificate Program

The Department of Marketing and Environment offers a Certificate in Transportation Management. The program is designed to enable students employed in, or wishing to enter, the transportation industry to obtain recognition for their attainments in transportation education.

The courses leading to the certificate may be taken by both degree-seeking students as part of their regular programs, or by special nondegreee seeking students who may wish to obtain professional recognition and qualifications.

The Certificate Program requires participants to obtain 30 quarter hours, or six five-credit hour classes, in senior (4000) level transportation courses, of which 20 hours are required, 10 hours elective.

#### Western Social and Political Thought Certificate Program

This certificate program is designed to introduce the student to the history of western social and political thought. The object of the certificate is to give interested students a synoptic view of the basic social and political concepts that have characterized western thought since its inception. As such, the certificate student will be required to take related course work in various academic departments, a thematic course on the western concept of order, and at least three tutorials that will involve all faculty and students in the program.

### Admission

FLORIDA INTERNATIONAL UNIVER-SITY ENCOURAGES APPLICATIONS FROM QUALIFIED APPLICANTS WITH-OUT REGARD TO SEX, PHYSICAL HANDICAP, OR CULTURAL, RACIAL, RELIGIOUS, OR ETHNIC BACKGROUND OR ASSOCIATION.

#### **Undergraduate Programs**

A student who has completed an Associate of Arts degree at a Florida public community college, or has earned 90 quarter hours (60 semester hours) of college credit at any other accredited institution at an acceptable performance level, and has completed the general education requirements (or the equivalent) as listed in the Academic Regulations section of the catalog, is eligible for admission to the University.

A student who has completed an Associate of Science degree, or has earned 90 quarter hours (60 semester hours) of credit at a Florida public community college, and who has completed at least 40 quarter hours of the 54 quarter hours of general education requirements (or the equivalent) as listed in the Academic Regulations section of the catalog, is eligible for admission to the University, provided his overall GPA is at least 2.00.

A student who meets the above admission requirements, but who has not completed the remaining general education course requirements and or the prerequisite courses for admission to a particular degree program, may complete his or her preparatory work either (a) at a Florida public community college or accredited institution, or (b) in the College and Schools of Florida International University; or (c) by achieving a satisfactory score on the appropriate CLEP examination(s).

The School of Technology normally regards the Associate of Science degree in an appropriate technical discipline as the full equivalent of the first two years (90 quarter hours) of the Bachelor of Technology program.

An undergraduate student who has been denied admission to a program of the University for *academic* reasons may appeal the decision.

### **General Information**

# Admission

He or she should contact the Chairperson of the program, then the Dean of the College or School of the program, and finally, if necessary the Vice President for Academic Affairs. An undergraduate student who has been denied admission to the University for other than academic reasons may appeal to the University Registrar.

# Prerequisite Courses and Additional Requirements.

Most departments require for admission to their degree programs certain freshman and sophomore courses in addition to the general education program. To determine nature and extent of additional requirements which apply in each case, the applicant should consult that section of the University Catalog which deals with the program the applicant wishes to pursue at Florida International University.

#### **Graduate Program**

A student seeking admission into a graduate program of the University must meet the minimum standards set forth by the Florida Board of Regents.

A bachelor's degree or equivalent from a regionally accredited university or college.

A "B" or better average in all work attempted while registered as an upper division student seeking the bachelor's degree, OR a total score (quantitative plus verbal) of 1,000 or higher on the *Graduate Record Examination* or an equivalent score on some other measure specified by the University. Any disabled student who must take a graduate admission test (i.e. G.R.E. or G.M.A.T.) should contact the special services counselor/coordinator at 552-2434 before registering for the exam.

All applicants are required to present scores on the *Graduate Record Examination* or 450 on the *Graduate Management Admission Test*— (*GMAT*) (School of Business and Organizational Sciences).

It is possible for an applicant who fails to meet these criteria to appeal the admission decision and be considered under the Board of Regents' 10 per cent policy. This policy allows up to 10 per cent of the graduate students admitted for a particular academic year to be admitted as exceptions to the above criteria.

#### **Admission Procedures**

Undergraduate and graduate degree-seeking students may obtain an application for admission, catalog, and other material from the Office of Admissions and Records, Florida International University, Tamiami Campus, Tamiami Trail, Miami, Florida 33199, or North Miami Campus, North Miami, Florida, 33181.

Completed admission application and all supporting credentials must be on file with the Office of Admissions and Records before a final decision can be made regarding the acceptance of an applicant. The following credentials are required by the Florida Board of Regents for admission:

Application for Admission: A fifteen dollar (\$15) non-refundable application fee must accompany the completed application form. The deadline for accepting applications each quarter is contained in the University Calendar given in the catalog.

Completed Academic Record: Official transcripts must be forwarded to the Office of Admissions and Records by the Registrar of all college-level institutions attended. It is the *re*sponsibility of the applicant to initiate requests for necessary transcripts (including final transcripts) from each post-secondary institution attended.

*Note:* Transcripts must be received no later than 15 days preceding the first day of class.

Student Health Form: Every student must complete a student health form. The forms will be supplied after a student is admitted the University.

Non-admitted degree-seeking student applications will be kept on file for one year from the requested date of entry.

Previously enrolled, degree-seeking students who have not attended classes for one year or more will be required to fill out an application for readmission, which can be obtained in the Office of Admissions and Records. (PC-140– Tamiami Campus and TC-145–North Miami Campus.) Such students must meet any new degree requirements which have been instituted since they were last enrolled.

If the student has attended other institutions since last enrolled at Florida International University, then transcripts must be sent by the Registrar directly to the Florida International University Office of Admissions. These transcripts must be received by Florida International University before a readmissions decision can be rendered.

#### Readmission

A degree seeking student once enrolled in the University, but who has not enrolled in any course for one year or more, is eligible for readmission under the regulations operative at the time of readmission. Such a student should contact the Office of Admissions and Records.

#### International Admissions Undergraduate and Graduate Admission Standards and Procedures

An international student must meet the regular admission requirements of the University and comply with the following:

Application and Fee: A completed admission application must be received by the University at least 3 months prior to the desired entering date, together with a non-refundable \$15.00 (U.S. dollars) fee.

Academic Records: Appropriate official transcripts or certified copies of academic records and the English Translations, validated by an official public translator; and all other appropriate credentials must be forwarded to the Office of International Student Admissions.

*Proficiency in English:* Proficiency in English must be established if the native language is not English. The following are accepted ways to verify proficiency:

- A minimum score of 500 in the Test of English as a Foreign Language (TOEFL). For information write to: the TOEFL program, Box 899, Princeton, New Jersey, 08540, U.S.A.
- The ALIGU Test, (American Language Institute, Georgetown University), Washington, D.C. 20007.
- ELS Language Center certification of satisfactory completion at the 109 level of proficiency. For information write to: ELS Language Centers, 3331 Ocean Park Blvd., Suite 201, Santa Monica, Calif. 90405.
- Successful completion of 45 quarter hours (30 semester hours) of course work at an American college or university including 9 quarter hours (6 semester hours) of English composition.

Declaration and Certification of Finances: A Declaration and Certification of Finances must be completed before the Certificate of Eligibility (Form I-20A) is issued. Upon receipt of application for admission the Declaration and Certification of Finances will be mailed to the applicant.

The University is required by immigration authorities to carefully check the financial resources of each student prior to issuing the Form I-20A. Therefore, it is important that the applying student know the costs of attending the university and have the necessary support funds for the period of enrollment.

Before completing the Declaration and Certification of Finances, review the estimate of institutional costs and living expenses. The total available to the student for the first and/or sec-(Continued)

# Registration

ond academic years must equal the total estimates of institutional costs and living expenses. All questions in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing.

After completing the Declaration and Certification of Finances, return the document to:

Office of International Student Admissions Florida International University Primera Casa 130

Tamiami Trail

Miami, Florida 33199 U.S.A.

The Declaration and Certification of Finances must be received by the University at least two months prior to the beginning of the quarter for which student expects to register. If the student is residing in the U.S.A., said document is due at least one month before the first day of classes.

Health Insurance: Florida International University requires that all international students purchase health insurance in order to help pay for major medical expenses. The health insurance policy should be kept active as long as the student is enrolled at the University. Information on the most economical plans is available from the Office of International Student Services, University House 340.

Graduate Students: For information about the Graduate Record Examination (GRE) and Graduate Management Admission Test (GMAT), write to Educational Testing Services, Princeton, New Jersey, 08540, U.S.A. Information about test center locations may also be obtained at the American Embassy in the student's home country.

Tuition: An international student is considered a non-resident, and, as such, will be assessed non-resident fees. As an Undergraduate student, \$772.50 is the average tuition cost for each quarter (Immigration regulations requires an International student to attend school at least three quarters during an academic year). The average tuition fee is based on 15 credits, which is the minimum required load for an undergraduate international student. For a Graduate student, \$620.00 is the average tuition cost each quarter. This tuition fee is based on 10 credits per quarter, which is the minimum required load for a graduate international student.

#### **Annual Estimate of Cost**

S	ingle Student	Undergraduate*	Graduate
	Tuition	\$2,835	\$2,480
	Books and	220	220
	Supplies		
	Housing and	3,600	3,600
'	Food		

Transportation	750	750
Miscellaneous	595	595
Total	\$8,000	\$7,645

\*Immugration Naturalization Services regulations require that an international student attend school for 3 quarters within one academic year. Note: Opportunities for financial assistance are limited if an international student is not a U.S. citizen.

Full-time enrollment: The non-immigrant alien student on a F-1 visa is required by United States Immigration regulations to be enrolled full-time, except for summer session. He or she should make satisfactory progress toward the bachelor's or master's degree program objectives each term. Otherwise the continuation of study on a student visa may be jeopardized. Full-time enrollment for a student on an F-1 visa (student visa) is defined as enrollment in, and successful completion of, a minimum of 15 quarter hours each quarter (undergraduate) and 10 hours each quarter (graduate).

United States Department of Justice, Immigration and Naturalization Service Law and Regulations:

It is the student's responsibility to comply with all non-immigrant alien requirements as stated under the United States laws under Section 101(a)(15)(f)(i) of the Immigration and Nationality Act. The University is required to report to the Immigration Office any non-immigrant alien student who:

a. Does not register at the University at the time expected.

b. Does not carry a full course of studies.

c. Terminates attendance.

Granting official Extension of Stay is dependent upon the student's making normal academic progress toward the bachelor's or master's requirements.

*Employment:* An F-1 visa student may not be employed off campus while attending the University, unless permission has been granted by

the U.S. Immigration and Naturalization Service. Normally, employment will not be permitted, especially during the student's first year of enrollment. Only under very special circumstances, because of unexpected conditions or emergencies which arise after the student's arrival, will an international student be recommended for a work permit. Adequate proof must be presented to the international student advisor in order to obtain the necessary authorization. On-campus employment can be authorized by the international student advisor.

*Note:* An international student will not be granted admission to the University until all academic and non-academic requirements have been met, including submission of the Declara-

tion of Certification of Finances. Under no circumstances should a student come to Florida International University without having received the official letter of admission and the I-20A Form.

For further information regarding international student admission, please contact:

Office of International Student Admissions Florida International University Primera Casa 130 Tamiami Trail Miami, Florida 33199 U.S.A. (305) 552-2387

### Registration

During each academic quarter, an official registration week is held, during which time all currently enrolled students who anticipate enrolling in the following quarter are expected to register for their courses. The new student will be notified of registration dates at the time he or she is officially notified of admission to the University.

#### Late Registration Fee

Approximately five weeks after each quarter begins, the official registration week for the *next* quarter begins. During the one-week registration period, all currently enrolled, degree-seeking students are expected to register.

Although degree-seeking and non-degreeseeking special students are encouraged to register during the official one-week registration period, they are not required to register until Registration Day. Those students who request to register during the first week of classes will be assessed a \$25 late registration fee.

# Withdrawal from the University

A student who wishes to leave the University during the quarter for any reason whatsoever must *officially withdraw* through the Office of Admissions and Records.

A student who *officially registers* for a particular quarter and subsequently decides not to attend (no shows) or to leave during the quarter must *officially withdraw* from the University through the Office of Admissions and Records. (Dropping all courses is equated to a withdrawal. Therefore, a *withdrawal form* instead of a drop/add card *MUST* be completed).

The transcript record of a student who withdraws during the first week of classes will contain NO references to the student being registered that quarter.

### **General Information**

# **Academic Regulations**

The transcript record of a student who officially withdraws after the first week and before the end of the sixth week of classes will contain a WI for each course.

The transcript record of a student who stops attending the University without officially withdrawing will contain a NC or F grade for each course, as appropriate to the course grading option.

#### Special Student (Non-Degree Seeking) Registration

The special student classification is primarily designed for the person who is not interested at the time of registration in working toward a degree at Florida International. The following regulations will apply to a person registered as a special student:

- He or she is not required to meet the usual admission requirements. Such a student is *not* officially admitted as a regular student and registration as a *special student* in no way implies future admission as a regular, degree-seeking student.
- He or she must complete a non-degree seeking, special student application at the time of registration.
- Registration for specific classes is on a space-available basis and is determined at the time of registration, on Registration Day, or during Late Registration.
- Special students may not register for 600 level courses during Registration Week, but must wait to register on Registration Day.
- Credit earned will not be counted toward a degree at Florida International unless the student subsequently applies for regular admission and is accepted as an undergraduate or graduate student.
- No more than the following quarter hours earned as a special student may be counted toward a degree:

Graduate Level:15 quarter hours

Undergraduate Level:20 quarter hours The appropriate Dean must approve the acceptance of credit earned as a special student;

- If a change to regular, degree-seeking student status is desired, an appropriate application must be filed in the Office of Admissions and Records;
- Regular rules of scholarship will apply:
- A faculty advisor is not assigned, but academic counseling is available from the academic unit offering the course.

Note: A foreign student is not permitted to enroll as a special student. Immigration regulations require a foreign student to be degree-seeking.

### Academic Regulations

*Note:* Questions concerning the University's academic regulations should be directed first to the student's academic advisor. Subsequent concerns may be directed to the appropriate Dean or the Office of Admissions and Records.

#### General Regulations Degree Requirements

Florida International University will confer the bachelor's degree when the following conditions have been met:

- Successful completion of a minimum of 180 quarter hours of credit with the required grade point average.
- Completion of the last 45 credit hours of coursework at Florida International University.
- Satisfactory completion of Florida International University's general education requirement.
- 4. A minimum of 2.0 G.P.A. on all conrsework completed at Florida International University.
- Recommendation of the Faculty of the College or School awarding the degree.
- Certification by the Dean of the College or School concerned that all requirements of the degree being sought have been completed.

Florida International University will confer the *master's* degree when the following conditions have been met.

- Successful completion of a minimum of 90 quarter hours for degrees requiring two years of work and 45 quarter hours for those requiring one year of work.
- A minimum 3.0 G.P.A. on all coursework completed at Florida International University.
- 3. Recommendation of the faculty of the College/School awarding the degree.
- Certification by the Dean of the College/ School concerned that all requirements of the degree being sought have been completed.

*Note:* Normally, a minimum of 35 quarter hours must be completed at Florida International University for a 45-quarter-hour program and 75 quarter hours for a 90-quarter-hour program.

#### General Education Requirements

Florida International University requires that all undergraduate students must have completed a general education program prior to graduation. The general education program as presently defined by the Board of Regents consists of 54 quarter hours (36 semester hours). Florida International University recognizes the following general education program: 9 quarter hours each in the areas of social science, natural science. English composition, and humanities; 4 quarter hours in mathematics, and 14 quarter hours of electives in the above areas. In this connection, the following policies have been established.

- A student who has graduated from a Florida public community college with an Associate in Arts degree shall be considered as having met the general requirements of Florida International University;
- A student who has met the general education requirements of any institution in the State University System of Florida shall be considered as having met the general education requirementss of Florida International University;
- A student who has taken his or her freshman and sophomore years in a college other than a Florida-public community college or at an institution in the State University System of Florida may similarly receive credit for such courses shown on his or her transcripts as meeting the general education requirements;
- A student may be admitted before completion of an equivalent general education program, provided such a program can be completed through an inter-institutional registration arrangement with a Florida public community college or through some other arrangement designed to meet individual needs as noted in the section describing undergraduate admission standards.

#### **Standards of Conduct**

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by Florida International University and the Florida Board of Regents. The breach or violation of any of these laws or regulations may result in judicial or disciplinary action.

When a student is involved in an offense resulting in criminal charges, prior to his admission, the circumstances of the case may be reviewed by the appropriate Student Affairs Committee to consider the student's eligibility

# **Academic Regulations**

for admission to the university as well as participation in extracurricular activities.

#### Student Grievance Procedures

On academic matters, aggrieved students should first discuss their complaint with the departmental chairperson. Problems regarding general university (non-academic) matters should be directed to the office of the Vice President of Student Affairs. Students should consult the Student Handbook for details on university grievance procedures.

#### **Classification of Students and Course Loads**

Students are classified by the Office of Admissions and Records as follows:

Juniór: Through 134 quarter hours credit.

Senior: 135 or more quarter hours credit, but no baccalaureate degree earned at Florida International University or elsewhere.

Post Baccalaureate: Any student enrolled in graduate-level courses who has earned a bachelor's degree but is not admitted to a graduate degree program.

Graduate: Any student admitted to a graduate program.

Special Student: Any non-degree seeking student enrolled in undergraduate or graduate level courses.

In terms of credit-hour load, students are classified as full-time according to the following minimum schedule:

	Undergrad- uate Quarter Hours	Graduate Quarter Hours
Credit-Hour		
Loads	10	10
Veterans Benefits		
(full allowance)	12	9
Veterans Benefits		
( <sup>1</sup> / <sub>4</sub> allowance)	9	7
Veterans Benefits		
(1/2 allowance)	6	5
Foreign Students		
(F-1 Visa)	15	10

Part-time students are those taking less than the figure indicated. The normal course load for a full-time undergraduate or graduate student is 15 quarter hours. A course load of more than 20 quarter hours must be approved by the student's advisor and dean (or designee). An undergraduate Foreign student must carry and satisfactorily complete 15 quarter hours each quarter, and a graduate foreign student must carry and satisfactorily complete 10 quarter hours each quarter to meet the full-time status requirement of the Immigration and Naturalization Service.

#### **Class Attendance**

The University does not require class attendance and does not maintain penalties for nonattendance. Individual faculty may establish attendance criteria in classes where it is necessary for academic reasons. The individual academic units may establish their own attendance policies with the approval of the Vice President for Academic Affairs.

#### **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 (commonly called the Buckley Amendment). Student academic records are maintained, generally, in the Office of the Registrar and in the academic department of the student's major. As a rule, all currently enrolled and former students have the right to review their records to determine the content and accuracy of the records. Parents of dependent students, as defined by the Internal Revenue Code, and who give evidence of the dependent status, have the same rights. Students can generally, for the cost of copying, have copies of any documents in their file. This does not apply to transcripts from another institution; students may get copies of these from that institution.

#### Program and Course Regulations Academic Definitions:

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

Major-An integral part of the bachelor's and master's degree is a major concentration of course work in an approved academic discipline or area. The major areas of study are listed on pages GEN 4, 5 and 6 of the Catalog. The exact course and credit requirements and prerequisites for each major are outlined in the departmental program areas of the Catalog.

Electives-A student may usually select courses from any academic area to complement his or her major area(s) of study or meet his or her interests, in order to fulfill the credit hour requirements for the bachelor's or master's degree. Prerequisite course requirements should be considered in selecting elective courses.

Minor Program-A Minor Program is an ar-

rangement of courses that enables the student to develop some degree of expertise in one area of study. A minor is associated with the completion of the bachelor's degree, but is not interdisciplinary in nature.

Certificate Program-In the College and Schools of the University, a Certificate Program is a combination of courses with a common base or interest selected from one or more academic disciplines and so arranged as to form an area of academic concentration. Two types of certificates are awarded by the College or Schools:

Academic Certificate—awarded with the bachelor's degree, or upon completion of an approved area of concentration to a student already possessing a bachelor's degree. This certificate is *interdisciplinary* in nature.

Professional Certificate—awarded to a student upon completion of an approved area of concentration. This certificate need not be interdisciplinary in nature or associated with the bachelor's degree.

A Certificate in Continuing Studies is awarded to a person who has attended a conference, seminar, or program sponsored by the Division of Continuing Education and Special Programs.

Two Majors-Any undergraduate student who elects to do so may carry two majors and work to fulfill the requirements of both concurrently. Upon successful completion of the requirements of two majors, a student will be awarded only ONE degree unless a minimum of 45 appropriate quarter hours in addition to the requirements of the first degree have been earned. In cases where the requirements of two majors have been met and one degree is involved, a notation denoting both majors will be entered on the transcript.

*Two Degrees*—Two bachelor's degrees may be awarded simultaneously when the following conditions have been met:

1. Requirements for two majors have been completed as certified by the appropriate academic units.

2. A minimum of 45 appropriate quarter hours in addition to the requirements of one degree has been carned.

A graduate from an accredited four-year institution who applies for admission to work towards a second bachelor's degree must meet the requirements of the major department, which shall include (but are not limited to) a minimum of 45 quarter hours of course work, as well as any other University-wide graduation requirement.

Change of Major—A student may change majors by processing a *Request for Change of Major* form. The form and directions are available in the Office of Admissions and Records.

# **Academic Regulations**

#### **Transfer Credit**

An undergraduate student admitted to the University will receive credit for all previous academic work appropriate to the degree desired in accordance with the Articulation Agreement with Florida public community colleges, the program standards of the academic department or program, and the limitations noted below. Although the actual awarding of transfer credit is made by the Office of Admissions and Records, the final determination regarding applicable transfer credit accepted toward the fulfillment of degree requirements rests with the Dean of the College or School in which the student is enrolled.

#### Limitations on Transfer Credit

A student transferring from a four-year college may transfer up to 135 quarter hours (90 semester hours), and those transferring from two-year colleges may transfer up to 90 quarter hours (60 semester hours) toward a bachelor's degree. In individual cases, at the discretion of the appropriate academic dean, a greater number of credits may be transferred.

Normally, the grade of "D" will be accepted for transfer; however, such coursework in the major field is subject to review and approval by the appropriate dean.

Normally, credit from non-accredited institutions will not be accepted; however, such credit, when presented, will be considered on an individual basis by the appropriate College or School.

Credit from military schools will be considered for transfer in accordance with the recommendations of the American Council on Education.

Credit from foreign institutions will be considered on an individual basis. Credit will be granted for all work which is applicable toward the degree being sought.

#### Acceleration

The academic programs of the University are planned in such a manner that a student may complete some of his or her upper division degree requirements through one or more of the mechanisms listed below. Specific information on the accelerated mechanisms utilized in each academic program is available from the department or program of the student's major.

#### College Level Examination Program (CLEP)

The College Level Examination Program is

designed to measure knowledge in certain subject matter areas of general education. There are two types of CLEP tests: the General examination and the Subject examination.

Because CLEP credit is regarded as transfer credit, no matter how earned, the maximum transferability of credit under CLEP, both General and Subject examinations combined is 45 semester (or 67.5 quarter) credits.

Not more than six semester (or nine quarter) hours will be transferred in each of the five areas of the General Examinations (English, humanities, mathematics, natural sciences, social sciences—history).

*Note:* A student who desires additional information on CLEP should contact the Office of Admissions and Records or School and College Relations.

# Departmental Credit by Examination

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

Awarding departmental credit by examination is the prerogative of each academic unit. To receive credit by examination, a student must be a regular degree-seeking student and register for the courses in the regular manner.

#### Credit for Life/Work Experiences

Undergraduate—The awarding of credit for life/work experience is the prerogative of each academic department or program. Only the degree-seeking student is eligible to receive this type of credit. The experiences must be applicable to the degree program of the student, and should be discussed and appropriately documented at the time the desired program of study is initially discussed and decided with the student's program advisor.

Graduate-Graduate credit, per se, will not normally be awarded for life experience. In cases where a student's life experience would appear to have been sufficient to develop the understanding and skills associated with a course that would otherwise be included in his 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 person who represents that specific area of specialization. Not more than 20 quarter hours of a 45 credit master's degree, nor 30 quarter hours of a 90 credit master's degree, may be so earned. A student wishing to have this policy waived, wholly or in part, may petition the Dean of the academic unit to which he or she has been admitted for special consideration and final responsibility for a decision will rest with that Dean.

#### **Traveling Scholar Program**

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

#### **Grading System**

Grades	Definition	Grade Points
		Per Credit Hour
А	Excellent	4
В	Good	3
С	Average	2
D,	Poor	1
F	Failure .	0
CR	Satisfactory	N/A
NC	No Credit	0
IN	Incomplete	N/A
WI	Withdrew from	N/A
	University	
AU	Audit	N/A
DR	Dropped Course	N/A
NR	Grade Not	N/A
	Reported or	
	Invalid	
EM	Examination	N/A

*Note:* All courses for which a student is officially registered at the end of the first week of classes and on which a grade of A, B, C, D, F, or NC is received are calculated in the GPA.

#### **Credit/No Credit Option**

The College/Schools may specify particular courses which may be taken for grades of CR/ NC only and those which may be taken, at the option of the student, for either a CR/NC or a regular ABCDF grade. A student who decides to take a course that offers a choice of CR/NC grading or ABCDF grading must indicate at the time of course registration which grading option is desired. Once the grading option has been indicated, a student will not be allowed to change his or her mind.

(Continued)

# **Financial Information**

#### **Repeated Courses**

A student who repeats a course should file a Repeated Course Form with the Office of Admissions and Records. All courses taken by a student with the grades earned will be reflected on the transcript with each repeated course appropriately designated. A student may repeat a course as many times as he/she wishes; only the last grade will be calculated in Grade Point Average.

#### **Dropping and Adding Courses**

The first week of each quarter is the official drop/add week. During this period, a student may add courses, drop courses or withdraw (with no records kept) from the University (with a fee refund.)

Courses officially dropped during the second through the sixth weeks of classes are recorded on the transcript with a symbol of DR (dropped).

# Change or Correction of Grades

Once submitted, end-of-quarter grades (except incompletes) are final and 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. A change-of-grade form requires the instructor's statement as to the reason for the change, the instructor's signature, and the approval of the appropriate Academic Dean, and must be submitted within one calendar year after the date of the initial end-of-quarter grade.

#### **Grade Reports**

At the end of each quarter, the Office of Admissions and Records provides each registered student a copy of his or her grades.

#### Academic Honors (Undergraduate)

To graduate with *honors* a student must have earned a cumulative GPA between 3.500–3.749 and have received no more than two NC's.

To graduate with *high honors* a student must have carned a cumulative GPA between 3.750-3.999 and have received no more than one NC.

To graduate with *highest honors*, a student must have earned a cumulative GPA of 4.0 and have received no NC.

To graduate with the above honors the student must have completed sixty credit hours at Florida International University since the Fall Quarter of 1975.

#### Dean's List

Any undergraduate student who earns a quarter average of 3.5 or better on 10 or more hours of course work for which grade points are earned is placed on the Quarter Dean's List. This achievement is noted on the student's quarterly report of grades and permanent academic record.

#### Academic Warning, Probation and Dismissal

*WARNING:* A student whose cumulative GPA falls below a 2.0 (undergraduate) or 3.0 (graduate) will be placed on *WARNING* indicating academic difficulty.

**PROBATION:** A student on WARNING whose cumulative GPA falls below 2.0 (undergraduate) or 3.0 (graduate) will be placed on *PROBATION* indicating serious academic difficulty. The College/School of the student on *PROBATION* may appropriately communicate conditions which must be met in order to continue to enroll.

DISMISSAL: A student on PROBATION whose cumulative and quarterly GPA's fall below a 2.0 (undergraduate) or 3.0 (graduate) will be automatically dismissed from his/her program and the University. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the Dean of the College/School in which the student is enrolled. If the student's appeal is denied, the dismissal from the University is for a minimum of four quarters. After four quarters, the student may apply for readmission to the University in the same or a different program, or register as a special student.

#### **Final Examinations**

While the University calendar does not designate specific dates as a final examination period, final course examinations may be given at the discretion of the faculty member teaching the course.

#### **Application for Graduation**

Each student who plans to graduate is required to submit to the Office of Admissions and Records an *Application for Graduation* Form. This form (supplied by the Office of Admissions and Records) must be submitted before the end of the third week of classes of the academic quarter in which graduation is expected. A student turning in the Application for Graduation after the deadline will graduate the following quarter. There is no charge for applying for graduation.

#### **Premedical Advisement**

The Premedical Advisement and Evaluation Committee, a committee of the College of Arts and Sciences, advises students interested in entering the health professions and prepares recommendations for students who are applying to health-related professional schools.

Students desiring to enter the health professions are advised to contact the Premedical Advisement and Evaluation Committee at the earliest possible time, preferably before the spring quarter prior to the academic year in which they will apply to professional schools. The office of the Premedical Advisement and Evaluation Committee is in the Department of Physical Sciences, OE 200; 552–2605.

### **Financial Information**

#### Classification of Students for Tuition Purposes – Florida or Non-Florida

The policy relating to the classification of students for tuition purposes is defined by the Florida Board of Regents as follows:

#### **Florida Student Definition**

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

(a) A "Florida student" is a person who has domicile in and who shall have resided in the state of Florida for at least twelve (12) consecutive months immediately preceding the first day of classes of the academic term in which the student enrolls. In determining residency, the university may require evidence such as voter registration, driver's license, automobile registration, location of bank account, rent receipts or any other relevant materials as evidence that the applicant has maintained continuous residency. Physical presence for the entire twelvemonth period need not be required so long as the conduct of the student, taken in total, manifests an intention to make Florida his or her permanent dwelling place. This means that, during the twelve-month period, the student may visit outside the state for brief periods. It

# **Financial Information**

does not shorten the twelve-month period. If such student is a minor, it shall mean that the parent or parents, or legal guardian of the student shall have domicile in and have resided in the state of Florida for the period stated above. "Florida student" classification shall also be construed to include students who hold an Immigration and Naturalization Form 1-151, Resident Alien Registration Receipt Card. or Cuban Nationals or Vietnamese Refugees who are considered as Resident Aliens. provided such students meet the residency requirement stated above and comply with subsection (2) below. The burden of establishing facts which justify classification of a student as a resident and domiciliary entitled to "Florida student" registration rates is on the applicant for such classification.

(b) In applying this policy:

1. "Student" shall mean a person admitted to the institution, or a person allowed to register at the institution on a space-available basis.

2. "Minor" shall mean a person who has not attained the age of 18 years, and whose disabilities of minority have not been removed by reason of marriage or by a court of competent jurisdiction.

3. "Domicile" for fee paying purposes shall denote a person's true, fixed, and permanent home and place of habitation. It is the place where the applicant lives and remains and to which he expects to return when he leaves. without intent to establish domicile elsewhere.

4. "Parent" shall mean a minor's father or mother, or if one parent has custody of a minor applicant, it is the parent having court-assigned financial responsibility for the education of the student; or if there is a court-appointed guardian or legal custodian of the minor applicant, it shall mean the guardian or legal custodian.

5. The term "dependent student," as used in this rule, is the same as a "dependent" as defined in sections 151(e)(1)(2)(3) and (4) of the Internal Revenue Code of 1954. A copy of these provisions in the Internal Revenue Code of 1954 is incorporated in this rule by reference.

6. A "non-Florida" student is a person not meeting the requirements of subsection (a) above.

(2) In all applications for admission or registration at the institution on a space-available basis a Florida applicant, or, if a minor, the parent or legal guardian of the minor applicant, shall make and file with such application a written statement, under oath, that the applicant is a bona fide citizen, resident, and domiciliary of the state of Florida, entitled as such to classification as a "Florida student" under the terms and conditions prescribed for citizens, residents, and domiciliaries of the state of Florida. All claims to "Florida student" classification must be supported by evidence as stated in (1) if requested by the registering authority.

(3) A "non-Florida student" or. if a minor. his parent or guardian, after having been a resident and domiciliary of Florida for twelve (12) consecutive months, may apply for and be granted reclassification prior to the first day of classes of any subsequent term; provided, however, that those students who are non-resident aliens or who are in the United States on a nonimmigration visa will not be entitled to reclassification. An application for reclassification as a "Florida student" shall comply with provisions of subsection (2) above. An applicant who has been classified as a "non-Florida student" at time of original enrollment shall furnish evidence as stated in (1) to the satisfaction of the registering authority that the applicant has maintained continuous residency in the state for the twelve months required to establish residence for tuition purposes. In the absence of such evidence, the applicant shall not be reclassified as a "Florida student." In addition. the applicant for reclassification must be accompanied by a certified copy of a declaration of intent to establish legal domicile in the state. which intent must have been filed with the Clerk of Circuit Court. as provided by Section 222.17. Florida Statutes. If the request for reclassification and the necessary documentation is not received by the registrar prior to the last day of registration for the term in which the student intends to be reclassified, the student will not be reclassified for that term.

(4) Unless evidence to the contrary appears, it shall be presumed by the registering authority of the institution at which a student is registering that:

(a) The spouse of any person who is classified or is eligible for classification as a "Florida student" is likewise entitled to classification as a "Florida student." This provision will not apply in the case of students who are non-resident aliens or who are in the United States on a non-immigration visa.

(b) If an applicant's eligibility for classification as a "Florida student" is based on the residency of the spouse, the spouse shall make and file with the application a written statement under oath, that said person is the spouse of the applicant and a bona fide citizen, resident and domiciliary of the state of Florida, entitled as such to classification as a "Florida student."

(c) No person over the age of 18 years shall be deemed to have gained residence while attending any educational institution in this state as a full-time student, as such status is defined by the Board of Regents, in the absence of a clear demonstration that he has established domicile and residency in the state, as provided under subsection (3) above.

(d) Any "Florida student" who remains in the state, after his parent who was previously domiciled in Florida or stationed in Florida on military orders removes from this state, shall be entitled to remain classified as a "Florida student" so long as his or her attendance at a school or schools in Florida shall be deemed "continuous". However, such student claiming continuous attendance must have been enrolled at a school, college or university in Florida for a normal academic year in each calendar year, or the appropriate portion or portions thereof. from the beginning of the period for which continuous attendance is claimed. Such a student need not attend summer sessions or other such intersessions beyond the normal academic year in order to render his attendance "continuous."

(5) Appeal from a determination denying "Florida student" status to applicant therefore may be initiated after appropriate administrative remedies are exhausted, by the filing of a petition for review pursuant to Section 120.68 F.S. in the District Court of Appeal in the appellate district in which the institution maintains its headquarters or where a party resides.

(6) Any student granted status as a "Florida student." which status is based on a sworn statement which is false, shall, upon determination of such falsity, be subject to such disciplinary sanctions as may be imposed by the president of the university.

(7) Special Categories—The following categories shall be treated as Florida residents for tuition purposes if adequate documentation is provided.

(a) A member of the Armed Services of the United States who is stationed in Florida on active duty pursuant to military orders, the spouse and dependent students.

(b) A veteran of the Armed Forces of the United States of America with twenty (20) or more years of active military service, including the spouse and dependent students of such veteran's immediate family, provided that the veteran is in Florida at time of retirement or moves to Florida within one year following retirement and files a declaration of Florida domicile.

(c) Full-time elementary, secondary, and community college faculty members under current teaching contracts in the state of Florida, and their spouses and dependent students.

(d) Full-time faculty, administrative and professional and career service employees of the University System and their spouses and dependent students.

(e) A student certified by his respective state for participation in the Academic Common Market Program of the Southern Regional Edu-

# **Financial Information**

cation Board who is enrolled in a program approved by the Florida Board of Regents.

(f) Florida domiciliaries living in the Panama Canal Zone who have not established domicile elsewhere, including the spouse and dependent students.

(g) Florida residents who had their residency in Florida interrupted by service in the U.S. armed forces, the Peace Corps or other similar volunteer organizations fostered by the United States government shall be deemed to have had residency in Florida during times of service in the aforementioned organizations.

(8) Reciprocal Agreements. The Board of Regents may enter into agreements with appropriate agencies and institutions of higher education in other states and foreign countries providing for the reciprocal exchange of students enrolled and prospective in higher educational institutions to facilitate utilization of public 'higher educational institutions in this state and other states or countries. Such agreements may include provisions for waiver or reduction of non-resident tuition for designed categories of students and may include contractural payments to such other state or country, subject to the availability of appropriations. Such agreements shall have as their purpose the mutual improvement of educational advantages for residents of this State and such other states or countries with whom agreements may be made.

#### **Fees and Refunds**

#### Fees

The fees are established by the Board of Regents as approved by the State Legislature. The fee structure for the 1979–80 academic year is as follows:

#### Fall, Winter, Spring Terms

	Florida Residents	Non-Florida Residents
Upper Level	\$16.50	
Undergraduate	per qtr.	\$51.50 per
Courses	hr. \$22.00	qtr. hr.
	per qtr.	\$62.00 per
Graduate Courses	hr. \$24.00	qtr. hr.
	per qtr.	\$64.00 per
Thesis	hr.	qtr. hr.

#### Summer Term

	Florida	Non-Florida
	Residents	Residents
Upper Level	\$10.50	
Undergraduate	per qtr.	\$45.50 per
Courses	hr.	qtr. hr.
	\$22.00	
	per qtr.	\$62.00 per
Graduate Courses	hr.	qtr. hr.
	\$24.00	
	per qtr.	\$64.00 per
Thesis	hr.	qtr. hr.
	per qtr. hr. \$24.00 per qtr.	gtr. hr. \$64.00 per

Fees are based on the level of each course attempted. The dates by which fees must be paid for each academic quarter may be obtained from the University Cashier's Office. Current fee information can be obtained from the Cashier's Office.

NOTE: Registration is not complete until fees are paid. Fees are subject to change.

#### **Sundry Fees**

Application Fee (non-refundable)	\$15.00
Late registration service charge (see	
academic calendar for dates)	\$25.00
Library Fines-per book or unit per	
day	\$.25
Overdue Reserve Books-per book per	
library hour	\$.25
Parking Fee	\$ 1.25
Reinstatement Fee	\$25.00
Assessed all students whose	
registration has been cancelled for	
non-payment of fees, and who	
petition for reinstatement (in	
addition to the late registration	
service charge.)	
Student Health Fee	\$ 5.00

#### Refunds

A full refund of fees will be made if a student withdraws completely from the University on or before the last day of late registration. A full refund will be made if the University cancels a student's registration before the end of late registration.

After the end of late registration there will be no refund of Registration Fees except in the following cases:

- Death of student
- Illness of the student so severe that it prevents completion of the program for which the student is registered. A doctor's certification of this illness is required.
- Involuntary call to military service.
- Extenuating circumstances.
- In the above instances the per hour fee, less \$2.85 per hour, will be refunded.

No refund will be made under this policy ex-

cept upon proper application through the Cashier's Office.

#### Past Due Student Accounts

All student accounts are due and payable at the Cashier's Office, Room 120 Primera Casa, at the time such charges are incurred.

Delinquent accounts will be considered sufficient cause to prohibit registration, graduation, granting of credit, or release of transcripts for students. The University is not able to grant credit or time payments for any fees. Financial aid is available for those qualifying through the Office of Financial Aid. A limited number of short term loans are available to individuals who may experience problems in meeting due dates.

#### **Financial Aid**

Florida International University subscribes to the philosophy that a student is entitled to a college education regardless of his or her financial condition. The Office of Financial Aid (Tamiami Campus, Primera Casa; Room 125; North Miami Campus, Academic I, Room 186) have an extensive program of student financial aid which includes scholarships, grants, loans, and employment. Awards are based on need. Each application is given individual attention.

Assistance may be provided in the form of a scholarship, a loan, part-time employment, or a combination of all three in a "package." Florida International participates in the National Direct Student Loan Program, the Federal Nursing Student Loan and Scholarship Program, the Law Enforcement Education Program, the College Work-Study Program, the Florida Student Assistance Grant Program, the Supplemental Education Opportunity Grant Program and the Basic Educational Opportunity Grant Program. Forms for the Guaranteed Student Loan, a type of transaction between local lenders and the student, are also processed through the Office of Financial Aid. There is a nine month grace period before the student assumes payment of the loan. The government pays the interest while the student is in school and during the grace period.

In order to qualify for aid, a student must be fully admitted to the University as a degree seeking student. A new application for aid must be submitted each year. Forms are available in February for the following summer quarter and academic year. In order to receive priority consideration, a student must apply by the deadlines as established by the Financial Aid Office:

# **Student Affairs**

1979–80 academic year;Summer Quarter – May 18, 1979, Fall Quarter – August 24, 1979, Winter Quarter – December 8, 1979, and Winter Quarter – February 19, 1980–81 academic year; Summer Quarter-May 23, 1980, Fall Quarter-August 22, 1980, Winter Quarter-December 5, 1980 and Spring Quarter-April 10, 1981. Apply as soon as possible. DO NOT wait until you have been accepted by the Office of Admissions and Records.

Before a financial aid application can be evaluated, students must do the following:

- Complete a Financial Aid Form and mail it directly to the College Scholarship Service: the College Scholarship Service will send Florida International University a computerized version of the student's application, which is evaluated to determine his or her need.
- 2. Complete an office application and mail it to the Financial Aid Office.
- Every transfer student must obtain and fill out a financial aid transcript form for each school previously attended, and have the Financial Aid Office of each school complete the form and mail it to Florida International University.
- 4. All students must submit a copy of their 1978 Income Tax Report to the Financial Aid Office. Dependent students will submit their parents 1978 Income Tax Report for the 1979-80 academic year. Students applying for the 1980-81 academic year must submit a 1979 Income Tax Report.

In accordance with guidelines set by the Office of Education (H.E.W.), all students receiving federal financial aid must be making satisfactory progress towards the completion of a degree; therefore, the Financial Aid Office has established that "measurable academic progress" will be met by completing 35 new credit hours per academic year (3 quarters) with a cumulative grade point average of 2.0 as a minimum.

In addition no aid will be awarded if the student has any outstanding debts with the University.

If a student is dependent and his or her family's gross income is less than \$15,000.00, or if he or she is an independent student and his or her gross income is less than \$15,000.00, the student is expected to do the following, assuming he or she meets the basic qualifications of the programs:

1. Apply for the Florida Assistance Grant Program. The student must be a United States citizen or permanent resident, and a Florida resident for at least 24 months immediately preceding the beginning of the academic year for which he or she is applying. The student must be enrolled for at least 12 hours per quarter. 2. Apply for the Basic Educational Opportunity Grant (BEOG) Program by answering yes to question No. 43 on the FAF (Financial Aid Form), and submit the Student Eligibility Report to Florida International University. The student must be enrolled for at least 6 hours per quarter.

Awards may be adjusted if the income of the student changes. Applicants who fail to notify the Financial Aid Office of assistance from other sources are subject to complete withdrawal of aid.

Please note that the opportunities for financial assistance are limited if a student is not a resident alien or a United States citizen.

#### **Veterans Information**

The Veterans' Affairs Office assists all veterans and their dependents who wish to receive V.A. educational benefits. Personal counseling, fee deferments, tutorial assistance, and V.A. work/study jobs are available through the Veteran's Affairs Office. The V.A. Office is located in PC 138 at the Tamiami Campus, and TC 113 at the North Miami Campus.

Veterans planning to attend F.I.U. should contact the Veteran's Affairs Office two (2) months prior to date of entry in order to expedite the processing of paperwork required to obtain educational allowances from the Veterans Administration.

#### TRAINING STATUS

	The should be and the start	
	Undergraduate	Graduate
Full-time	12 quarter	9 quarter
	hours	hours
3/4 Time	9 quarter	7 quarter
	hours	hours
1/2 Time	6 quarter	5 quarter
	hours	hours
Less than	5 quarter	4 quarter
Half-Time	hours	hours

#### RATE OF PAYMENT

	No	1	2	Each
	Depen-	Depen-	Depen-	Addi-
	dent	dent	dents	tional
Full-Time	\$311.00	\$370.00	\$422.00	\$26.00
3/4 Time	\$233.00	\$277.00	\$317.00	\$19.00
1/2 Time	\$156.00	\$185.00	\$211.00	\$13.00
Less than				
Half-Time	C	OST OF	TUITIO	N

### Student Affairs

The Division of Student Affairs includes several areas within the University which provide direct service to students outside the classroom. The Student Affairs Division is designed to directly aid students in obtaining an education at FlU and to provide a broad scope of opportunities to expand upon classroom knowledge. The student in all processes is the prime focus of Student Affairs; being admitted to FlU, receiving financial aid and counseling services, participation in student activities and sports programs, being involved in student leadership and governance, and securing career development and job placement.

Departments of the Division of Student Affairs at Tamiami are located on the second and third floors of University House, the first and third floors of Primera Casa, the Tower Building, and the Modular Building on the west side of the campus. At North Miami, Student Affairs offices are located in Academic I.

The following section lists some of the services available to you through the Division. If you have questions that are not answered here, visit any of the offices of Student Affairs for assistance.

#### University Public Safety Department

The Florida International University Department of Public Safety is a full service Public Safety organizational unit, dedicated to the maintenance of a peaceful and safe academic environment throughout the entire University community.

The protection of persons and property is the specific responsibility of the Department of Public Safety's police division. As State of Florida police officers, members of this unit have complete law enforcement responsibility for the University community. The university police division attempts to address the needs of the educational community through objective enforcement and quality Public Safety service provided around the clock.

# Articulation and Recruitment

The Office of Articulation and Recruitment UH 340 works with the prospective students in an effort to make the transition to the upper-division university smoother. It also coordinates efforts with the University's academic departments to gain a better picture of their program requirements and to communicate those requirements to the community colleges.

The Office of Articulation and Recruitment serves as a focal point for those interested in expanding the University's constituency with special efforts in the recruitment of blacks, Hispanics, women, and senior citizens.

Orientation for new students is coordinated

# **Student Affairs**

in the Office of Articulation and Recruitment with cooperative efforts from the Division of Student Affairs. This program welcomes students, familiarizes them with a variety of services and provides them with an opportunity to complete registration.

#### **Admissions and Records**

The Office of Admissions and Records, under the direction of the University Registrar, is responsible for the orderly and timely admission of students, evaluation of transfer credits, and dissemination of information about academic programs of the University. It is in this office that the student academic record is created, maintained, and preserved, and from here are transcripts of the academic record sent. Registration for classes, including the dropping or adding of courses after registration is a function of Admissions and Records, and final grades are distributed by that office.

The office staff has the responsibility to serve the student, faculty, other administrative offices, and the general public; to hold safe and preserve the confidentiality of the students' records; and to ensure the integrity of the University's policies and regulations.

#### **Financial Aid**

The student financial aid program at Florida International University is part of the Student Affairs Division. Please refer to the Financial Information section of the catalog page for detailed information.

#### **Off-Campus Housing**

The Off-Campus Housing Program gives students at both the Tamiami and North Miami Campuses an extensive list of off-campus apartments, townhouses, rooms and houses for rent. The rental file is in University House 330, and Academic 1 112. The file is updated every two weeks and offers information on units available in Miami neighborhoods, rental cost, amenities such as pools, as well as other rental arrangements.

All landlords in the listing sign an agreement stating that no discrimination will occur due to race, color, religion, national origin, handicap or sex.

The Housing Office offers personalized advice and counseling in choosing sound rental arrangements, as well as what to do in the case of difficulties; however, each student must apply for, sclect, and evaluate their housing accommodations. It is suggested that you come during the week, many apartment rental offices are closed on weekends.

A roommate listing exchange service assists

students searching for a roommate to share housing, as well as companionship.

Maps and other information, such as the MTA countywide bus network, are free to students. Other pamphlets may be obtained at no charge, on a variety of consumer issues.

# Counseling and Advising Services

Located in UH 340 on the Tamiami Campus and Academic 1 105–110 on the North Miami Campus, Counseling and Advising Services offers the following services to any student attending FlU:

#### **Counseling Services**

Counseling Services offers a variety of counseling, advising, and testing programs for both individuals and groups. Academic counseling is provided to assist with the choice of a major or academic field of study, to advise for the improvement of study skills, to act as liaison with academic departments, and to serve as an advisement unit to facilitate matters with administrative divisions. Career Counseling is available to provide assistance in selection of and preparation for career-life planning, including individual exploration of interests, options, abilities, needs, and goals, as well as career opportunities. Personal counseling is also available for concerns such as personal growth and development, family problems, and social concerns. We also offer testing in the areas of academic achievement, personality inventories, interest inventories, and other pertinent areas. In addition, workshops and seminars are held periodically on topics of special relevance to students.

#### International Student Services

The International Student Services Office is organized to meet the special needs of international students, and to assist each student in achieving his or her educational objectives. The International Student Advisor serves as a liaison on immigration matters, and provides assistance with academic, financial, social and personal problems besetting international students. An orientation program is held at the beginning of every quarter to acquaint the incoming international student with the University, immigration regulations, and the community. As a means of orienting international students to American family life, an active Host Family Program is maintained. Also, in cooperation with the International Student Club, varied social and cultural activities are regularly scheduled. For example, "International Week," a week of festive activities, is held during each Spring term.

Several publications are provided to inform international students. An International Student Handbook is published annually, and "The Global Forum" (International Student Newsletter) is distributed each quarter. An admissions brochure is provided for prospective students interested in attending Florida International University.

# Special Services and the Handicapped

Special arrangements have been made at Florida International University to serve the needs of those who have physical handicaps, chronic health problems, hearing disorders, visual disorders, or mental or psychological disorders. Special Services operates to provide information and assistance to disabled students attending or wishing to attend FIU. Services include counseling, assistance with registration and class schedules, special equipment, talking books, talking cassettes, cassette machines, electric typewriters, notetaker, and on campus attendants; and help in overcoming architectual, academic or other obstacles which the disabled student may encounter.

#### Learning Skills Development

Several special learning laboratories and/or programs have been developed to assist students with educational deficiencies or problems. The student retention program in conjunction with the academic affairs area sponsors both a Writing Lab and a Mathematics Lab at the Tamiami Campus. Free tutoring in Math, Statistics, and Computer Science is available in the Math Lab; free tutoring for students with writing problems is available in the Writing Lab. For further information about the Math Lab call the Mathematical Sciences Department at 552-2743; for further information about the Writing Lab call the English Department, at 552-2874.

A Writing Lab has also been established in Room 231-Academic I on the North Miami Campus.

Additional programs are planned for reading, language, speaking, study and library skills development. Special tutorial arrangements can be made as deemed appropriate or necessary. Testing to assess achievement levels, and placement into special learning programs are also functions of Learning Skills Development. The

# **Student Affairs**

Coordinator for Student Retention Programs and Learning Skills Development is located in the Counseling Services Department, UH 340 on Tamiami Campus and Rooms 104–105, Academic 1.

#### **Career Placement**

The Career Placement Department, UH 340 at Tamiami and Academic 1 102–103 at North Miami, assists students with career choice selections. Additionally, on-campus interviews are scheduled with employers. In order to assist students in preparing for employment, there are seminars each quarter in learning effective communication techniques for interviews with employers (resume writing, letters of introduction and application, developing interviewing techniques and skills, etc.).

The Career Placement Department maintains notebooks which list opportunities for parttime, full-time and summer employment. The department also uses bulletin boards to post information on employment vacancies and careers. One board is located on the first floor of UH; the other is in Academic I 102–103 on the North Miami Campus.

### **Cooperative Education**

Cooperative Education allows students to alternate quarters of full-time paid employment, for which academic credit is earned, with quarters of full-time study. Students work in professional-level training positions related to their major field of study. Interested students may obtain detailed information about cooperative education from their academic advisor or the Department of Cooperative Education/ Placement UH 340 at Tamiami or Academic I 102–103 at North Miami.

#### Consortium Career Planning and Placement Services

Students and alumni of the three member institutions of the Southeast Florida Educational Consortium may request placement services at any of the nine Consortium campuses. *Procedure:* the student or alumnus should identify his or her campus (of graduation) at the time of requesting the service.

### University House (Tamiami Campus)

University House is the primary student center and provides a focal point for the university community to meet and interact in a nonclassroom, yet educational environment. As the hub of student life, UH houses the bookstore, cafeteria, Rathskeller, Cinema Center, Interjunational Conference Theater, student publications/communications offices, recreation rooms, TV lounges, Student Government Association offices, student organization offices, and meeting rooms. The Student Activities Office is located on the second floor. Some of the other offices of the Division of Student Affairs, including Career Development and Placement, Cooperative Education, Student Academic Services, International Student Services, and Articulation and Recruitment are located on the third floor.

# Student Activities and Organizations

Student activities are designed to meet the varied needs and potentialities of Florida International students. Student activities programming is co-curricular, and extends the educational spectrum from the classroom into the work of student organizations, Student Government, and a myriad of events and activities throughout the year. Participation in student activities allows a student to gain the broadest possible scope of education during the time that he or she is at the University.

Organizations are continually being formed on both the Tamiami and North Miami Campuses. Students have the opportunity to develop groups that further social and service programs, promote and supervise student welfare, further educational goals, and coordinate and implement community/student cooperation.

Students who are interested in organizing a group or in joining one that exists should go to the Student Activities Office in University House 211 on the Tamiami Campus or in Academic 1, Room 100, on the North Miami Campus.

There are currently 70 registered student organizations on the Tamiami Campus, ranging from the Student Consumer Group, the Professional Commerce Association and the Student Art Association through the International Student Club, the Future Attorneys Association and the Mass Communications Club. Meetings for all student groups are posted on the glass directory boards and bulletin boards throughout the University, and are announced daily on Eventline, 552-2177. The Student Activities Office in University House 211 also has a master schedule of student meetings.

On the North Miami Campus, student groups are just in the process of forming. Students on NMC have a unique opportunity to have an impact on what groups become a part of campus life. The Student Activities Office can provide information on how to become involved with student organizations or activities, as well as information about what's happening on campus.

#### Consortium Student Activities

Current students may attend activities open to Consortium students at any campus of the University, Broward Community College, and Miami-Dade Community College.

*Procedure:* present student ID or current fee receipt. The three institutions arrange for block purchase of tickets to area cultural events for re-sale to students at less-than-box-office prices. The Consortium campuses also jointly schedule cultural events.

### **Intercollegiate Athletics**

The Department of Intercollegiate Athletics and Recreational Sports offers varsity sports for both men and women. Men's NCAA intercollegiate athletics include baseball, golf, soccer, tennis and wrestling. Women's AIAW intercollegiate athletics include basketball, golf, softball, tennis and volleyball. The department is located in the Modular Building (W-4) on the west side of the Tamiami Campus, Room 201, telephone 552-2756.

### **Recreational Sports**

The Recreational Sports Office is dedicated to serving the physical and leisure needs of the FIU community. Four areas of participation are offered: Club Sports, Intramurals, Leisure Activity Classes and Facilities available for student and faculty use.

Club Sports are structured organizations that meet on a regular basis for the purpose of enhancing activity interests. Club sports have been organized in cooperation with the surrounding community and other four-year colleges. This non-varsity program helps to promote goodwill among the colleges in the South Florida community. Clubs are sponsored in sailing, fencing, water skiing, karate, flying, judo, and men's and women's tennis.

A full program of *intranural* sports is offered each quarter, and all interested students are encouraged to participate. Both competitive and recreational leagues are available, free from excess time demands as in intercollegiate and club sports. Intranurals include softball, soccer, tennis, racquetball and bowling.

Most FIU students have a free noon period,

# **Administrative Affairs**

allowing enough time to get involved in a *lei-sure activity program*, take a shower, and get back to classes. A variety of athletic activities will be taught by members of the FIU athletic coaching staff. Short lectures and drills will compliment periods of participation and general overall fitness. Several night classes are also offered.

All athletic *facilities* are open to students, faculty and staff with the exception of times reserved for intercollegiate, intramural and other recreational sports. The facilities located on the west end of the Tamiami Campus are the Tursair Building (W-9)-wrestling, weight room and mats; Tin Gym (W-7)-basketball and volleyball courts; tennis, paddleball, racquetball and handball courts; putting green and chipping area, outdoor basketball courts and recreational fields. Locker rooms for men and women are available with proof of a valid University 1D.

Facilities located on the North Miami Campus include a Parcourse physical fitness trail plus canoes and sailboats for limited recreational usage on Wednesday and Saturday afternoons.

The Recreational Sports Offices are located in the Modular Building (W-4), on the west side of the Tamiami Campus, Room 202, and on the North Miami Campus at the Student Development Center, TC-1140. For further information concerning any of the recreational sports programs, dial the Rec. Sports Hotline at 552-CALL, Monday through Friday, from 11 A.M. to 3 P.M.

#### **Student Government**

The Student Government Association (SGA), with offices on the Tamiami Campus in University House 310 and 311, and on the North Miami Campus, actively represents the student body within the university community. One of the functions of the SGA is to place all interested students on university-wide committees and task forces to insure student representation. Three of the most vital SGA standing committees are: the Social and Cultural Committee, which coordinates all concerts, lectures, film series and cultural and social activities involving students; the Budget Committee, which reviews and recommends, to the Senate, budget requests from registered student organizations and university departments; and the Committee on Committees, which reviews and screens student applicants for university-wide committees and recommends them to SGA for approval.

Students who have concerns they wish to express should go to the SGA office on either campus.

#### Governance

Students at Florida International are encouraged to participate in the governance of the University. The essential thrust of the University's philosophy is to provide an effective governance program that truly represents the students, the faculty, and the staff in developing institutional policies.

The governance of Florida International is intended to reflect common goals, and to bring honest differences of opinion out into the open. Through coordinated action and cooperation, students can be an effective force serving the total University community. Student concerns will be considered within the framework of the total governance of the University through student representation on all major University governing councils and committees.

Faculty and staff of Florida International actively seek to learn student desires and needs, which receive major consideration in decisionmaking processes at the University. At the same time, for effective two-way communication, it is important that students also give consideration to the view of faculty and staff. The University community must work together to meet the basic goals of the institution.

The elected Student Government Association is one of the four Senates in the University Council, the primary governance unit of the University.

#### **Student Publications**

On the Tamiami Campus, the Student Publications/Communications Workroom, University House 212A, provides the base of operations for all present student publications and any other communicative instruments that students initiate. In furthering the University's philosophy of linking practical experience with theory, student communications provide the opportunity for students to gain journalistic experience outside the classroom. A registered independent campus newspaper, an international magazine, a student handbook, and a vearbook presently exist on the Tamiami campus. Student publications welcome contributions from all segments of the University community and seek staff members as well.

On the North Miami campus also, the opportunity exists for students to initiate any publications they wish. Come to the Student Activities Office in Academic 1 111, for further information.

#### **Student Health Care**

The purpose of student health services is to provide comprehensive health care to the students of F.I.U. at a level commensurate with the students needs.

The health clinic at the Tamiami Campus (located in O.E. 115) is staffed by full time registered nurses, a family nurse practitioner and a part-time physician. A full time registered nurse staffs the clinic on the North Campus and the nurse practitioner is available there one day a week.

The clinic on the North Campus will be located in Academic I. Check with Student Affairs for location. Hours are posted in both clinics.

The clinics provide care for illnesses and emergencies. In addition preventive health care is emphasized. Health teaching in diet, exercise, stress management, and use of the health care system are integral parts of our program. Family planning, laboratory and physical therapy services are available.

For further information about special student insurance contact the Health Clinic on either campus.

#### **Campus Ministry**

Campus Ministry serves as a center for student groups on campus involved in a variety of religious activities. Professional representatives from various faiths are available for personal appointments. Often individual denominations will sponsor campus-wide programs under the auspices of the Campus Ministry. Hillel, the Jewish student center maintains a full time office within the ministry.

The office is open Monday through Friday from 9:00 A.M. to 5:30 P.M. (4:00 on Friday) and evenings as posted. Office location is Primera Casa 245, telephone 552-2215.

#### **Food Service**

Food and beverage service at Tamiami Campus is available on the first floor of University House. Snacks and complete meals are served cafeteria style. The cafeteria includes tables in the main area, surrounded by small dining rooms and patio dining areas. Food service offers complete catering service. North Miami Campus initially will be served by a variety of vending machines.

### Administrative Affairs

Administrative Affairs at Florida International University exists to plan, facilitate, and

# **Administrative Affairs**

service the other areas of the University. It offers many services centrally for this multicampuse University, providing the advantage of economy of scale. At the same time, recognizing the importance of *full service* to meet the needs of each individual campus. Administrative Affairs maintains fully functioning staffs of problem solvers at each location. Administrative Affairs

operates the following nine service areas:Staff FunctionsService OperationLegal AffairsAuxiliary ServicePhysical PlanningEnvironmentalInternal ManagementHealth and ServiceAuditing UnitOfficeSoutheast RegionalPhysical PlantData CenterOperations

Service Operations Auxiliary Services Environmental Health and Safety Office Physical Plant Operations University Controller University Budget Office University Personnel Services University Purchasing Services

Each area is described briefly below:

### Auxiliary Services

The Auxiliary Services of the University are self-supporting entities that sell goods and services at a price that approximates the cost. Auxiliary Services operates and coordinates food service, bookstore, duplicating, central stores, and vending.

#### Environmental Health and Safety

The Environmental Health and Safety Office is responsible for compliance activities with Federal, state and local health and safety codes, rules, and regulations. Additionally, the office is responsible for coordinating Section 504 of the Rehabilitation Act of 1973, which includes developing, implementing, and monitoring programs designed to eliminate discrimination on the basis of disability.

#### Internal Management Auditing Unit

Internal auditing is an independent appraisal activity for the review of accounting, financial and other operations, as a service to University management. The overall objective of this Office is to assist all members of management in the effective discharge of their responsibilities, by furnishing them with objective analyses, appraisals, recommendations, and pertinent comments concerning the activities reviewed. This Office reports directly to the Board of Regents.

### Legal Affairs

The Office of Legal Affairs is staffed by qualified attorneys licensed to practice law in the State of Florida. These attorneys provide all the necessary legal services for the University. The office has a legal library and can provide legal assistance in contractual and personnel matters as well as general legal advice.

### **Physical Planning**

The Division of Physical Planning is responsible for the preparation, and implementation of the University's physical development program-this includes the programming, design, and construction of all major buildings and campus projects. This Division assists in the development and maintenance of long-range campus master plans; coordinates the preparation of all building programs; and serves as University liaison between the Board of Regents and metropolitan and local governmental agencies. In addition, the Division conducts studies on projected University needs, prepares space utilization reports, makes traffic studies, and formulates planning standards. A current inventory of all University facilities is maintained, including base maps, as-built drawings, and other development criteria essential to facilitating the University's accelerating construction program.

#### Physical Plant Operations and Maintenance

The Physical Plant Division plans, designs and constructs all renovations. It operates, maintains and repairs the physical facilities of both campuses and provides many ancillary services.

- Planning, Design and Construction— Within the guidelines of the University Master Plan. Physical Plant plans new facilities: completes engineering and design for construction, renovation and alteration projects; and administers construction contracts, generally for those projects costing less than \$100,000.
- Maintenance and Grounds Departments— These units repair and maintain FlU buildings, roads, and grounds. They also undertake smaller alterations and construction projects, usually those costing less than \$5.000.
- Campus Services and Custodial Departments-These departments provide myriad services, including: key issue; telephone

service; furniture and equipment moving; set-up for special events: recycling of newspapers; cleaning of classrooms. laboratories, offices and common interior areas; and pest control services.

 Central Utilities—This unit provides air conditioning for the campus buildings, through the central chilled water system or packaged or window units.

#### Southeast Regional Data Center SERDAC

SERDAC was created to serve the computing requirements of both Florida International University and Florida Atlantic University (FAU). The Data Center provides instructional, research and administrative computing support to its user campuses via terminal access to the SERDAC computer. In addition, SERDAC provides computing support to other eligible educational and governmental institutions in the South Florida region.

The campus computer facilities, which provide both batch and timesharing access to the SERDAC computer system, are operated and controlled by FIU Computer Operations (a separate organization which is guided in policy formation by the Office of the University's President) and by a similar group at FAU.

SERDAC is guided in the formation of policy by a five-member policy board comprised of one member from the Board of Regents/Management Information Systems Office, and two members each from FIU and FAU. The SERDAC Director, who reports to the policy board, is responsible for the implementation of policy and the day-to-day administration of the Data Center. SERDAC is located in PC-549, 552-2700.

### University Budget Office

Operating with an annual total budget approaching \$40,000,000-a significant investment of monies from the public and private sectors of the economy-Florida International University delivers programs and services to the South Florida community. The University Budget Office is the focal point where the seemingly unlimited programmatic needs and limited fiscal resources are molded into manageable and accountable budgets. Through the preparation of legislative budget requests, annual operating budgets and comprehensive expenditure analyses, this office serves the University by constantly monitoring and coordinating the distribution of fiscal resources.

# **Academic** Affairs

#### **University Controller**

The Controller's Office is responsible for recording and reporting all University financial data. Functional areas within the Controller's Office include:

- CASHIER'S OFFICE-Effects collection of all University fees, including registration fees, short-term loans, library fines, and parking fees. The distribution of financial aid awards and the billing of students for past-due accounts are responsibilities of this office.
- CONTRACTS AND GRANTS-Prepares fiscal and financial reports; and analyses of all Federal, State and local grants, along with reviews of expenditures and budget for compliance with the grants.
- RECORD RETENTION-Inventories the various departments' files and sets up record retention schedules for data contained within the departments.
- GENERAL ACCOUNTING-Performs various bank and ledger reconciliations, and prepares annual financial reports and construction analyses and reviews.
- ACCOUNTS PAYABLE–Processes all University bills for payment. This includes travel reimbursements, consultants' fees, construction costs and other payments allowable under State law.
- CASH DISBURSEMENTS-Distributes payroll, petty cash funds.
- PAYROLL-Administers the University payrolls for faculty, A & P, career service and part-time employees.

#### University Personnel Services

The Department of University Personnel Services is responsible for the administration of uniform personnel policies. The Department performs the following service and support functions: recruitment, position classification, training, maintenance of personnel records, employee counseling and grievance adjustment, administration of the employee performance rating system and employee fringe benefit programs.

#### University Purchasing Services

Purchasing Services provides for centralized buying of all University supplies, equipment, and contractual services—and includes the following functions:

Central Stores supplies commonly used office supplies and equipment at substantial savings to University departments. Central Receiving is the central delivery point for receiving all supplies and equipment purchased by the University from outside vendors.

*Campus Mail* processes all outgoing official University mail and distributes all incoming mail.

*Property Control* coordinates the accountability (inventory), transfer and ultimate disposal of all accountable property.

### University Outreach and Services

Strongly committed to meeting the educational, professional and social needs of the community, the Office of University Outreach and Services strives to extend the rich resources of the University beyond the confines of classroom and laboratory. Through creative programming, innovative research and communityoriented activities, the varied divisions within Outreach serve a widely heterogeneous population.

Operating under the Office of Academic Affairs, University Outreach is composed of the following divisions: Division of Centers and Institutes, Division of Continuing Education and Division of Latin Affairs.

#### Division of Centers and Institutes

The Cultural and Human Interaction Center, created in 1972, through which more than one and one-half million dollars in federal funds have been brought to FIU focused on social action programming, is composed of the following non-traditional, field based projects:

The Coconut Grove Youth Project, beginning its fourth year of operation, is designed to impact the anti-social behavior of adjudicated youth in the Coconut Grove area and represents a vanguard University effort located directly in the community addressed to the problem of juvenile crime.

The ESAA Race Relations Project, an innovative training program for students and school system personnel in the Dade and Broward County Public School Systems, seeks to reduce student disruption, isolation, violence and substance abuse through techniques aimed towards easing racial tension and promoting alternative methods of negotiation and conflict resolution.

The Institute on Sexism holds conferences and training sessions on sexism and sexuality throughout the year and works closely with Dade County Public School System teachers, staff and administrators in implementing Title 1X guidelines established to eliminate sex discrimination and sex-role stereotyping.

The Partners in Learning Project, focusing on the South Dade farmworker population, pairs individuals academically trained with those trained through life experiences in a creative educational approach to life planning, skill development, and enhancement of cultural heritage. Street Musicians, theatrical presentation, dialogues, and University resources all contribute to the project's planned development of information/education materials for farmworkers nationally.

The Elders Institute, located on FIU's North Campus, serves the retired and/or older-aged learner through a variety of approaches designed to provide life-long learning for enrichment, including non-credit short courses located on and off campus, educational counseling and guidance, opportunities for cultural enrichment and participation in community affairs, and a general support system for the unique needs of this population.

The Institute for Women's Research and Studies provides education services, credit and non-credit, in the areas of management, career and life planning, minority relations, and international studies for educational, industrial, business and medical organizations throughout the state of Florida. The Institute maintains an applied resource program designed to provide inservice support and counseling in the above areas.

In cooperation with the External Degree Program, the Institute sponsors external baccalaureate degrees in career-life planning and minority relations in industry.

The State University System Center for Labor Research and Studies provides educational services with and without academic credit, in the areas of labor and manpower studies, labor relations for management and union groups, and collective bargaining, with an applied research program designed to support instruction and consultation in the above areas. As a Type I Center of the State University System, the Center is authorized by the Board of Regents to provide programs and services throughout the State of Florida. Through the External Degree Program and the School of Technology, an external baccalaureate program and certificate program in Industrial and Labor Relations is sponsored.

The Occupational Institute, as part of the Center for Labor Research and Studies, serves handicapped individuals seeking re-entry into the labor market. The Institute provides paraprofessional and professional training and counseling in selected skills areas and job readiness.

# **Academic** Affairs

The Urban Educational Resource Center, to be developed in cooperation with the School of Education, is planned for implementation during the 1979–80 academic year. This Center's purpose is the conduct and dissemination of significant, relevant and useful research aimed at the resolution of critical problems in urban education. The Resource Center will work within the community to determine areas of needed research, matching University expertise with identified needs.

#### **Division of Continuing Education**

The primary responsibility of the Division of Continuing Education is to provide lifelong educational opportunities to members of the community through the University's Dade, Broward and Monroe service area.

The Department of Conferences, through a variety of non-credit activities in the form of workshops, seminars, conferences and short courses, seeks to meet the needs of certain professional, para-professional and lay groups as well as the community at large by integrating University resources with skilled professionals in the community in program development and implementation. Continuing Education Units (CEUs) are awarded for participation in noncredit activities.

The Department of Off-Campus and Weekend Credit Courses serves as the focal point through which community needs are expressed, identified and generated into credit courses and programs, utilizing appropriate University resources. The important and unique feature of the Department is that it provides regular and special courses and programs at locations and times which are most convenient for those who request and enroll in them.

### **Division of Latin Affairs**

The Division of Latin Affairs serves as a liaison between the University and the Latin community and develops and administers programs and activities in the area of multilingual and multicultural studies.

The Tri-Ethnic Bilingual Program supports the bilingual education programs of the Dade County School System through the development of curricula designed to sensitize counselors and parents to the special educational needs of Hispanic children, while encouraging a more receptive attitude towards bilingual education.

The Hispanic Consumer Education Project addresses the educational needs of the Hispanic population as consumers and facilitates their access to mechanisms for securing consumer information and for pursuing various forms of consumer protection action. The project operates an office in the heart of the Latin community in the Latin Affairs Outreach office.

The Spanish Total Experience Language Laboratories (STELL), is a total learning experience in which participants are exposed to intensive language instruction and Hispanic culture in the form of two week laboratories. Offered in conjunction with the Department of Conferences, the laboratories are open to the community. Similar laboratories are being offered to the Dade County Public School System employees through contract with the system.

### Faculty Scholars Program

The Faculty Scholars Program provides an opportunity for especially well-qualified high school graduates to complete the baccalaureate degree in two to three years, enrolling directly in the upper division university. Based on demonstrated academic performance and leadership potential, a limited number of gifted and unusual students will be invited to participate in this program offered by Florida International University. Each student selected for the program will be required to have a personal interview with the Faculty Scholars Director and will have to be accepted by the Admission Evaluation Committee. A Professor-specialist in the student's proposed field of interest will serve as the student's advisor-mentor throughout the undergraduate program. In addition to core requirements and departmental discipline courses, the student and his or her advisor will design an individualized course of study, and plan close interaction in research, seminars, and study with members of the faculty as well as visiting professors, to meet the necessary requirements for the baccalaureate degree. This early association with a distinguished scholarteacher is intended to enrich the student's promise as a person, and his or her potential as a scholar and a professional.

For detailed information concerning the Faculty Scholars Program, contact Dr. Clair T. McElfresh, Director-DM 210-552-2893.

## **Nursing Program**

A selected number of non-degree credit courses for professional nurses are offered at FIU. These courses are approved continuing education courses for the purpose of obtaining contact hours for the Florida Board of Nursing certification and relicensure requirements.

The courses are designed for students desiring upper division credits in nursing, with content related to the nursing process and management,

Non-credit continuing education conferences, workshops and seminars are offered by the Division of Academic Affairs, Department of Conferences, North Miami Campus. Further information is available by contacting:

Office of Academic Affairs North Miami Campus Florida International University 940-5700

Quarter Hours

Nursing Courses	:	
NUU 3431	Nursing in Evolving	
	Health Care	
	Delivery System	3
NUU 3210C	Nursing Process 1	4
NUU 3222C	Nursing Process 11	3
NUU 4211	(NUR 425) Decision	
	Making in Nursing	
	Practice	2
NUU 4630	Introduction to	
	Nursing Research	3
NUU 4230C	Nursing Process	
	Applied to	
	Individuals	5
NUU 4231C	Nursing Process	
	Applied to Families	4
NUU 4232C	Nursing Process	
	Applied to	
	Communities	3

\*The Nursing credit courses taken at Florida International University are not in any way related to prerequisite or transfer courses of a future degree program in the nursing major.

### FAU-FIU Joint Center for Environmental and Urban Problems

The establishment in July 1972 of a Joint Center for Environmental and Urban Problems by Florida International University and Florida Atlantic University was based on the premise that many of South Florida's urban and environmental problems must be approached on a regional basis: that such problems know no political boundaries. The Joint Center Headquarters, which houses the office of the director, is situated in Fort Lauderdale with branch offices on the FIU and FAU campuses. The FIU office is staffed by an assistant director and research associates.

### Florida International University

# **Acdemic** Affairs

Within the next decade, decisions must be made on such critical areas as transportation, pollution control, land use, housing, energy policy and conservation, growth management, and the design of a regional government system capable of effective problem-solving. As a catalyst in coordinating and supporting private and public efforts to solve some of these problems, the Joint Center concentrates on both research and service responsibilities.

#### Research

Applied research grants are awarded each year by the Joint Center to faculty of both Florida Atlantic University and Florida International University to do research on environmental and urban problems of current concern in the South Florida area. Besides this supported research at the universities, "inhouse" research projects are conducted by the Joint Center staff. Examples of these supported research projects include: the study of noise pollution, the problem of heavy metal accumulation in Mid-Biscayne Bay, analysis of air and water samples in Dade and Broward counties, and consideration of the problems associated with nuclear plant siting. Research results, produced at the Joint Center and elsewhere, are made available to public and private agencies attempting to find and apply solutions to urban and environmental problems.

#### Service

As a service organization, the Center provides professional assistance, maintains inventories of needs and scientific manpower availabilities, disseminates information, and facilitates communication among groups concerned. Special effort is concentrated on providing services in the solution of urban and environmental problems which have an increasingly regional character.

Other Center activities include: 1) The publication of a bimonthly magazine, *Florida Environmental and Urban Issues;* 2) Sponsoring of seminars and conferences addressing such topics as solar and nuclear energy, air and water quality, land use planning, and resource recovery. (These are announced through the news media as they are scheduled.) 3) Facilitation of communication within/between citizens groups and public agencies, and provision of information as a basis of effective action.

### International Institute for Housing and Building

In its early planning, Florida International University dedicated itself to the development of academic, research and service programs which would be of direct benefit to the Southeast Florida community which it serves. In addition, the central importance of housing construction and development in Latin America, the Caribbean, and developing nations throughout the world was recognized. The International Institute for Housing and Building was established by the Department of Construction, School of Technology to provide expertise in the design, engineering architectural and management aspects of construction.

The Institute emphasizes the following activities related to housing environment.

- To initiate and carry out research on problems related to building planning and construction, considering especially the technological, economic, financial and managerial aspects of the topic;
- To generate funds from outside sources to finance theoretical and applied research activities;
- To disseminate the results of research projects and encourage their implementation;
- To provide technical services to private and official organizations with a special emphasis on service to the housing production industries of South Florida and in an international context;
- 5. To act as an interface between new developments in Housing Science and their application in the field of housing and planning in South Florida and to assess their relevance to the housing industry;
- 6. To collect documents, and disseminate information on the latest advances in building science and housing;
- 7. To attract researchers of international stature and reputation to F.I.U. and South Florida;
- To develop a learning environment in the area of building sciences relevant to the needs of low and medium-income people of the world;
- To collaborate with other research institutes, government agencies, and universities to increase the effect of its research program;
- 10. To organize scientific meetings, symposia

conferences, seminars, and workshops at F.1.U. and elsewhere;

- To incorporate the use of alternative energy, energy conservation, and efficient use of natural resources in the planning of large projects, and to encourage the utilization of indigenous materials and labor sources;
- 12. To help implement programs to alleviate the impact of various disasters on housing including the coordination of disaster preparedness activities related to housing.

An underlying concern of the Institute is to establish an interdisciplinary environment in which many disciplines within the University and the community can arrive at feasible solutions to housing and building problems.

### Consumer Affairs Institute

The Institute functions in a research, teaching, and service capacity. Its primary goal is to develop alternatives to the adversary/advocate system in the equitable solution of consumer affairs problems. Working on the peer level, it attempts to bring together representatives of consumers, business, government, labor and academia. The Institute is jointly sponsored by Florida International University and the University of Miami.

### Libraries

The University libraries are housed in the Athenaeum on the Tamiami Campus, and in temporary quarters in the Trade Center Building at the North Miami Campus.

Some 400,000 volumes comprise the total library collection in addition to substantial holdings in federal, state, local, and international documents; maps; microforms; music scores; newspapers; institutional archives; and curriculum materials. The Library subscribes to approximately 4,000 scholarly journals and other serials.

The public card catalogs are divided into three sections for author, title, and subject entries. The location of the resources is given on the cards in each of the three sections of the catalogs. The bulk of the collection is housed in open stacks.

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

### **General Information**

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classification systems and have separate public catalogs.

In keeping with the University's commitment to day and night operation, the libraries are open when the University is in session and during vacation periods. For exact library hours, please consult the posted schedules. Staff members are always available at the Public Service desks to assist students and faculty in their use of the libraries.

#### Consortium Library Privileges

Currently registered students, faculty, and staff may use the libraries on any of the nine campuses of Broward Community College, Florida International University, and Miami-Dade Community College, including having access to periodicals and other materials not on open shelves. Some materials are placed on reserve to restrict their use. Each library has the periodical lists of the other consortium campuses.

Students may borrow materials from any of the consortium campuses through inter-library loans arranged at their home campus libraries. Procedure for requesting an inter-library loan: Students present a valid fee receipt or student ID for the current registration period; faculty present current staff identification.

Faculty and staff may also check out materials at any campus library of the Consortium. Procedure for check-out: present current staff identification.

#### **Media Center**

The Media Center offers service to faculty, staff and students, and is located in Athenaeum, with support facilities in Viertes Haus and Primera Casa 236 on the Tamiami Campus, and the Trade Center 125 and Academic 1 193 on the North Campus. Media services are provided through the following divisions: AV Equipment; Media Center Film Library; Learning Resources; and Instructional Graphics. Branches of AV Equipment and the Media Center Film Library exist on the North Campus. Special services that are not available on the North Miami Campus may be provided through coordination with the Director of Media Centers at the Tamiami Campus.

Faculty may seek assistance in the development of instructional support in any AV medium. Film librarians acquire films, audio/ video tapes, and instructional kits. Films, tapes and kits can be scheduled through the Film Library. A language lab is also located in this area. The Equipment Distribution Center purchases and maintains all AV equipment for the university, as well as delivering AV equipment to classrooms. Graphic artists and photographers assist faculty and staff in the preparation of desired instructional visual support. A Learning Resources specialist is available for consultation and production support. Faculty and students may prepare graphic materials in the Faculty/Student Production Center, with the assistance of an Audio-Visual Specialist.

Questions regarding Media Center services may be directed to the Main Offices on either campus.

#### Consortium Media Privileges

Faculty, staff, and students may use the audio-visual services on any campus of the Consortium. A-V materials and equipment may not be borrowed.

### State University System External Degree Program

The Florida Board of Regents has authorized Florida International University to administer the State University System External Degree Program. This statewide authorization enables students to take advantage of all educational resources throughout Florida, without requiring residency on any campus. It is a self-directed, non(campus) residential program for residents of the State of Florida.

Individual degree plans are designed for each student in the form of an Educational Contract. In the Contract, the student is awarded credit for previous academic experience and for prior experiential learning. The Contract also specifies the program of study, outlining what remains to be done for the completion of a baccalaureate degree. Students may enroll in the program and begin their course of study at any time. The length of time required for each student to complete the bachelor's program will vary according to the amount of credit needed for completion and the speed at which the individual student wishes to work.

#### **Programs Offered**

The External Degree Program is operated through the faculty of the regular departments and divisions in Florida International's college and schools. The degrees offered are the same degrees as the regular degrees offered by the college and the schools, but they are achieved through alternative means. Degrees offered by the College of Arts and Sciences, the School of Public Affairs and Services, the School of Technology, the School of Business and Organizational Services, and the School of Hospitality Management may be earned through the External Degree Program.

#### Credit for Prior Experiential Learning

Many persons have accumulated non-college learning experiences that can be translated into college credit. By various methods of evaluation, our faculty is able to assess a student's competence level and grant advanced standing accordingly. Methods of evaluation range from the standardized College Level Examination Program (CLEP) to individual written and oral presentation before persons with established credentials in the disciplines under consideration. There is no minimum or maximum number of credits the faculty may award.

Examples of work and other prior experiential learning which may be considered for credit are: in-service training, short courses, continuing education, correspondence studies, seminars, travel, and professional occupational experiences.

#### **Entrance Requirements:**

- 1. Florida Residency.
- 2. Completion of two years of college studies or the equivalent.
- 3. Commitment to independent study.
- 4. Submission of detailed application forms.
- 5. Acceptance as an External Degree student by the desired department.
- 6. An initial interview.

#### Fees

Contract Fees: \$200.00 per year

Tuition Fees: \$16.50 per quarter hour of undergraduate credit. All formal coursework and Independent Study detailed in the Educational Contract is paid for at this rate.

Contract fees cover the following costs:

- 1. Evaluation of application.
- 2. Counseling and interview procedures.
- Assessment and awarding of credit for prior learning.
- 4. Individualized educational program.
- 5. Writing of the Educational Contract.

# University Relations and Development

### **Division of Sponsored Research and Training**

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

Among the major goals of the Division of Sponsored Research and Training are the following:

to help stimulate faculty and staff interest in research and training projects

to assist the faculty and staff in obtaining funds for research and training projects, and

to provide technical assistance to faculty and staff who submit proposals to the Division for the University.

### International Affairs Center

A primary goal of Florida International University is to become a major international education, training, and research center. The University's mandate extends beyond the education of Floridians and service to the South Florida community, to the creation of mutual understanding among the Americas and throughout the world.

Florida International University is dedicated to international education in the forms of academic research, teaching, service, and cooperative exchange. The focus of the international thrust of the University is the International Affairs Center. The function of the International Affairs Center is to conduct research, development, and joint programs in cooperation with all elements of the University, in international education, research and training.

In order to expose Florida International University students to the dynamics of United States participation in world activities, and to the equally critical roles played by other countries in the world scene, the University encourages the offering of internationally oriented courses. To that end, Florida International University currently provides degree majors and certificate studies programs encompassing international dimensions in the following areas: *College of Arts and Sciences* 

International Economics and Development maior

International Relations major Liberal Studies major

Modern Language majors

Earth Sciences major 1-Certificate in Caribbean Studies

PoliticalScience major

Ethnic Studies Certificate Program

1-Cuban Studies Certificate

2-Jewish Studies Certificate

Caribbean-Latin American Studies Certificate Program

1-Academic Certificate in Caribbean Studies 2-Professional Certificate in Caribbean Studies

School of Business and Organizational Sciences

International Business major (undergrad.) Business Administration major (undergrad.)

International Marketing Concentration Master of Science in Management: Finance International Finance Specialization

Master of Science in Management: Accounting

International Finance concentration

International Accounting Program Taxation specialization

Master of Science in Management: International Business

School of Education

**Bilingual Education** 

**Comparative Education** 

International Development Education

In addition, the School of Hospitality Management offers a program in International Hotel Management, and the School's Travel and Tourism Management program has a strong international component.

Integral to Florida International University's international curriculum is attraction of world renowned faculty to the University, and the participation of Florida International University faculty members in international activities on campus and abroad. Noteworthy efforts of the faculty and staff include cooperative projects with the Bahamas, Colombia, Haiti, Mexico, Venezuela, and Brazil.

By providing research, training, development and joint delivery of education, research and training programs with the College of Arts and Sciences and the Schools of the University, the International Affairs Center concentrates on the delivery of solutions to the academic and pragmatic problems and challenges facing the international community. The staff of the Center serves as planners, researchers, developers, advocates, and administrators for all international dimensions of the University. A fundamental principle of the Center's operation is that the most productive and valuable international activities are those which are multidisciplinary. Priority emphasis is given to those efforts in which two or more schools or departments of the University can be involved.

The Promotion of faculty and student research and study abroad is also a function of the Center. In this regard the Center acts as a clearinghouse for International programs sponsored by the University and by other organizations such as the State University System, various public agencies, and other universities in the United States and abroad. An adjunct to the Center's efforts to internationalize all aspects of the University is the admission of students from all over the world to Florida International University through the office for International Student Services. International students from the Caribbean, South and Central America, Africa, Europe, Southeast Asia, the Far East, Near and Middle East, and Oceania are studying at Florida International University. Currently, fifty-nine countries are represented in the Florida International University student body. The International Student Services Center works closely with the International Affairs Center in facilitating the admission to Florida International University of students from abroad.

The endeavors of Florida International University and its International Affairs Center are a demonstration of the Institution's commitment to cooperative participation in service to the world

### University Relations and Development

The division fosters internal and external communications and involvement in a variety of ways with the goal of fully informing interested publics with current information about all facets of the University, our impact in the communities we serve, our future goals and continuing progress. Six interrelated departments provide University-wide services in the areas of public information, publications, the coordination of special events, alumni affairs and Development and general university public relations on both Tamiami and North Miami campuses.

#### **Department of Development**

Contributions of financial resources such as bequests, cash donations, equipment and endowments for the advancement of the University from national and local non-governmental

### **General Information**

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# Florida's Statewide Course Numbering System

sources are solicited through this department. The "margin of excellence" that distinguishes a great university from an adequate university is encouraged and provided through the activities of the Foundation.

The Florida International University Foundation, Inc., is composed of business and professional leaders of the community who have dedicated themselves to furthering the University by encouraging, soliciting, receiving and administering donations for the benefit of the institution. Auxiliary units of the Foundation include:

International Society of the Arts was established to encourage interest and support in the fine arts programs of the University. Persons from the Greater Miami area seek funding for student scholarships and the betterment of the cultural arts.

The Sunblazers Club seeks financial aid and support for the athletic programs of the University with the goal of providing a superior sports and recreation program for University students.

#### Department of Alumni Affairs

Although FlU is still a young institution, it has graduated over 14,000 students and nearly 50,000 persons have taken courses at the University. The Alumni Association, an auxiliary of the FlU Foundation, Inc., maintains liaison with FlU alumni to solicit their support for the University's growth, to encourage alumni to continue their post-secondary education and to establish a series of projects, activities and services of mutual benefit to the alumni and the University.

#### Department of Information Services

Writers and media specialists in this department inform the various external publics and University personnel of current events and activities. They distribute daily news releases to all professional media, publish a weekly newsletter which is disseminated to both the internal and external communities and maintain the University Speakers Bureau to provide highquality University speakers on a wide variety of topics for any community group or organization.

#### Department of Publication Services

Creative graphic design and publications production personnel in this department coordinate the preparation of hundreds of publications to convey information about University programs, activities and services to selected and general audiences.

# Department of Special Events

Providing service to the various publics of the University through promotion of attendance at special events such as lectures, plays, concerts, athletic events, commencements, and other public functions is the goal of this department. Special Events also schedules and coordinates high visibility events for the University including FIU's hosting of the annual Orange Bowl Marathon.

### Office of Minority Affairs and Women's Concerns

The office reports to the President and provides leadership and direction in the administration of University equalization programs for women and minorities in several ways. It assists University units in implementing and monitoring affirmative action-procedures; provides a channel for employee and student grievances regarding discrimination, or issues that indicate the need for additional affirmative action; and promotes effective relationships between the University and community organizations. We also administer the State University System Scholarship Program and the internal Minority Scholarship Program. In addition, the office maintains a liaisonal relationship with state and federal agencies that deal with EEO and Affirmative Action.

### Office of Institutional Research

The Office conducts research and evaluations related to the internal operations of the University, and analyzes and reports University statistics to federal and state agencies and other relevant groups. A member of the Office serves as University data administrator, responsible for coordinating the completion of all data requests made by the Florida Board of Regents and most data requests from all other sources.

The Office publishes a variety of reports on a

regular basis. Those with widest applicability deal with student characteristics and student enrollments, both actual and projected.

The Office has the responsibility of overseeing the quality of questionnaires which are distributed within the University, and provides support services for those conducting studies.

Additionally, through the use of an on-site demand terminal and special data files created for its use, the Office responds to ad-hoc requests for information from University committees, individual faculty members, administrators, and students.

### Florida's Statewide Course Numbering System

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

The classifying and numbering of courses was done by community college and university faculty members in each academic discipline. Their work was reviewed by faculty members in all of Florida's postsecondary institutions who made suggestions and criticisms to be incorporated into the system.

The course numbering system is, by law, descriptive and not prescriptive. It in no way limits or controls what courses may be offered or how they are taught. It does not affect course titles or descriptions at individual schools. It seeks only to describe what is being offered in postsecondary education in Florida in a manner that is intelligible and useful to students, faculty and other interested users of the system.

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

(Continued)

# Florida's Statewide Course Numbering System

state university can also be used for that purpose by a transfer student regardless of where the credit was earned.

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

# General Rule for Course Equivalencies

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

#### **First Digit**

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

#### Titles

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

### Lab Indicators

Some courses will carry an alpha suffix indicating a lab. The alpha suffixes "L" and "C" are used as follows to indicate laboratories:

"L" means either (a) a course, the content of which is entirely laboratory or (b) the laboratory component of a lecture-lab sequence in which the lab is offered at a different time/ place from the lecture.

"C" means a combined lecture-lab course in which the lab is offered in conjunction with the lecture at the same time/same place.

Examples: Marine Biology

OCB 013 (lecture only)

. Marine Biology with lab OCB 013L (lab only) OCB 013C (lecture and lab combined)

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

#### **Equivalency of Sequences**

In certain cases, sequences of courses in a given discipline are equivalent rather than the individual courses which make up these sequences. (For example, MAC 132, 133, 134). In these cases the subject matter topics may not be taught in the same sequence, course by course, in several institutions; however, upon completion of the full sequence at any of the several institutions, students have completed substantively equivalent content. These sequences are clearly identified in the Course Equivalency Profiles.

# Explanation of Prefixes and Numbers

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

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

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

The number of prefixes is a function of the extent of the subclassifications of the given subject matter area.

When this work began there were 920 alpha prefixes in existence; with the new system there are now 370. As in most states there existed no uniformity in Florida's prefixes as indicated by the example below:

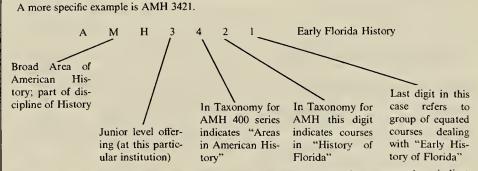
Discipline	Before	After
History	20	7
Sociology	24	3
Philosophy	23	4
Religion	17	1
Mathematics	50	10
English	39	6
Nutrition	38	4

Although it is true that a student majoring at one of the 38 participating institutions may have had only one alpha prefix for his major (e.g., HY-History) and now he will have seven, all prefixes in the same subject matter areas will be the same throughout these institutions.

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

# Exceptions to the Rule for Equivalencies

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



(Local titles are used for each particular course. The last three numbers are used to indicate equivalency.)

#### **GEN 30**

### **General Information**

# Administration and Staff

A. All graduate level courses (except those which the faculty and their reviewing colleagues have determined to be substantively equivalent with undergraduate courses) are not automatically transferable.

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

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

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

# Authority For Acceptance of Equivalent Courses

The following amendment to Section 6A-10.24(7) of the Articulation Agreement was approved by the Community Colleges Council on Instructional Affairs, the Presidents Council, the Division of Community Colleges, the State University System Council of Vice Presidents for Academic Affairs the Council of Presidents and the Board of Regents. It was adopted by the State Board of Education on March 7, 1978: "... Students who earn credit in a course determined by the appropriate faculty task force to be equivalent and which is published in the state-wide course numbering system, and who later transfer to another institution within the system can transfer and use the credit in that course at the receiving institution for the same purpose as that course can be used by native students who complete the course at the receiving institution."

#### Administration, and Staff

#### **Office of the President**

President C	Gregory Baker Wolfe	
Director	Patricia Lutterbie	
Computer Services Operatio	ns,	
Director	Charles Beranek	
Institutional Research and A	Analysis,	
Director	James Howell	
International Affairs, Dean	William Leffland	
Joint Center for Environmen	nt and Urban	
Problems, Director	John DeGrove	
Associate Director	John Parker	

Minority Affairs and Women's Concerns, Director Francena Thomas Southeast Florida Educational Consortium, Director Richard Konkel

#### **Academic Affairs**

Vice President **Robert C. Fisher** Associate Vice President Steven Altman Assistant Vice President Paul D. Gallagher Associate Vice President, University Outreach Marvin Dunn Assistant Vice President, North Miami Campus **Rosebud L. Foster** Consumer Affairs Institute, Director Milton Blum General Education Program, Director Harry Antrim Faculty Scholars Program, Director Clair T. McElfresh International Institute for Creative Communication, Director Edmund G. Skellings Libraries and Media Services, Director Howard W. Cordell Sponsored Research and Training, Director Arnhilda Gonzalez-Quevedo State University System External Degree Program, Director **Isaiah Palmore** 

#### Library and Media Center, Tamiami Campus

Director of Libraries and Media Services Howard W. Cordell Associate Director Clifford G. Dawdy Head, Public Services **Muriel C. Efron** Head, Circulation Dept. Sherry Carrillo Head, Curriculum Laboratory Ronald W. Martin Documents Librarian Josephina H. Rodriguez Environmental and Urban Affairs Librarian **Esther B. Gonzalez** International Affairs Librarian Marian Goslinga Head, Reference Dept. Margaret S. Tripp Assistant Reference Librarian Cornelia Sturdza Assistant Reference Librarian **Richard S. Cook II** Herlein M. Dunbar Head, Special Collections H. Juanita Flanders Head, Acquisitions Dept. Jacqueline M. Zelman Head, Catalog Dept. Assistant Catalog Librarian Maria A. Berenbaum Associate Catalog Librarian John R. Radencich Associate Catalog Librarian **Robert Mead-Donaldson** 

Assistant Head, Catalog Dept. Robert D. Rodriguez Head, Serials Dept. Associate Serials Librarian Director, Instructional Media Arthur D. Waugh Director, AV Media Edward J. Briois Director, Instructional Graphics

Marshall Kaufman Learning Resources Specialist Elizabeth Puckett Media Center Librarion Ellen Barnett

#### Library and Media Center, North Miami Campus

Associate Director Antonie L. Baker Head, Catalog Dept. Robert E. Stack Head, Circulation Dept. Susan Mead-Donaldson Head, Acquisitions Dept. Leslie V. McCammon Curriculum Laboratory Librarian Barbara A. Sudano

Head, Reference Dept. Miguel M. Menendez Assistant Reference Librarian Susan R. Weiss

# University Outreach and Services

Associate Vice President for University Outreach and Services Marvin Dunn Toni Eisner Centers and Institutes, Director Latin Affairs, Director Miguel Gonzalez-Pando Continuing Education, Director **Douglas Spencer** Off Campus & Weekend Credit Courses, Assistant Director **Carolann Baldyga** Center for Labor Research and Studies, Director John Remington Coconut Grove Crime Prevention Project, Dee Dunn Director Elders Institute, Director **Doris Bass** ESAA Race Relations Project, Director Magaly Rodriguez O'Hearn Institute for Women, Director Charlotte Tatro Institute on Sexism, Co-Directors Tom Puroff, Doris Stein Partners in Learning Education Project, Magaly Rodriguez O'Hearn Director Tri-Ethnic Bilingual Program, Director

Sandra Gonzalez

#### **Administrative Affairs**

Vice President for Administrative Affairs Ronald G. Arrowsmith Auxiliary Services, Director Juan Argudin Internal Management Auditing Unit, Director Andy Fornaguera Legal Services, Director Joan Russell Physical Planning, Director Daniel P. D'Oliveira

Daniel P. D Onveira

Physical Plant Operations and Maintenance, Director Donn L. Ashley

Southeast Regional Data Center, Director James E. Helm

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### **Florida International University**

# Administration and Staff

University Budget Office, Director

Sidney L. Walesh University Controller Thomas J. Breslin University Personnel Services, Director James F. Flood University Purchasing Services, Director Doris Sadoff

#### **Student Affairs**

Vice President for Student Affairs

Judy M. Merritt **Ozzie Ritchey** Assistant Vice President **Ralph Hogges** Associate Dean Karel King Assistant Dean Division Budget Officer John Newman Articulation & Recruitment **Diann Zeldman Cooperative Education & Placement Patrick Russell Olga Martin** Counseling & International Student Services John Bonanno John Newman Financial Aid Ana Sarasti Intercollegiate Athletic & Recreation Sports **Thomas Wonderling** Nancy Olson International Admissions Carmen Alvarez Brown International Placement **Ben Cowins** Records & Registration Lourdes Meeneses **Howard Wade** Retention and Learning Skills Student-Academic Services and Off Campus **Sharon Gottlieb** Housing Student Activities and Student Union **Thomas Riley Cheryl Altany-Straus** University Department of Public Safety William Raimond Columbus H. Posey University Registrar

# University Relations and Development

University Relations and I	Development,
Dean	Terry Spence
Alumni Affairs	Joanne Hayek
Annual Giving, Director	Frances Koestline
Publications, Director	Eileen Marcus
Special Gifts, Director	Sharon Collins
Special Events and Inform	nation Services,
Director	Lillian Kopenhaver
University Relations North	h Miami Campus,
Director	Betty Bigby-Young

#### Academic Affairs, Administrative Affairs, Student Affairs, staff

- Altman, Steven, D.B.A. (University of Southern California), Associate Vice President for Academic Affairs
- Argudin, Juan, B.T.I.T. (Florida International University), Director of Auxiliary Services, Administrative Affairs
- Arrowsmith, Ronald G., B.S.B.A. (University of Florida), Vice President, Administrative Affairs
- Ashley, Donn L., P.E., M.A., (The Gearge Washington University), Director of Physical Plant
- Baker, Antonie L., M.A.L.S. (University of Wisconsin at Madison), Associate Director, Library, North Miami Campus
- Baldyga, Carolann, M.A. (Trinity College), M.E.D. (University of Mass.), Assistant Director, Continuing Education, Off-Campus and Weekend Credit Courses
- Barker, Caroline J., M.S.I.S. (University of Illinois), Serials Librarian, Library
- Barnett, Ellen, M.S. (Florida State University), Audio-Visual Librarian
- Bass, Doris, M., M.S.Ed. (Florida International University), Director, Elders Institute
- Berenbaum, Maria, M.L.S. (University of California at Los Angeles), Assistant Catalog Librarian, Library
- Blucker, Judith A., Ph.D. (Florida State University), Womens Softball Coach
- Breslin, Thomas J., B.A. (University of South Florida), Controller, Administrative Affairs
- Briois, Edward J., B.S.M.E. (University of Florida), Director of Audio-Visual Media
- Burkhart, Calvin A., M.L.S. (University of Pittsburgh), Assistant Serials Librarian, Library
- Carrillo, Sherry, J., M.L.S. (Florida State University), Circulation Librarian, Library
- Collins, Sharon, M.A. (Florida Atlantic University), Director, Community Development
- Cook, Richard S., II, M.L.S. (University of Denver), Assistant Reference Librarian, Library
- **Cordell, Howard W., M.S.L.S.** (University of Illinois), Director of Libraries and Media Services
- Cowins, Benjamin, Ph.D. (University of Oklahoma), Director, Student Development, North Miami Campus
- Dagraedt, Mary V., M.S. (Illinois State University at Normal), Womens Golf Coach

- Dawdy, Clifford G., M.E.D., M.L.S. (N. Texas State University), Associate Director, Library, Tamiami Campus
- D'Oliveira, Daniel P., M.S. (Calumbia), Director, University Physical Planning
- Dunbar, H. Minnie, M.S.L.S. (University of Illinois), Special Collections Librarian, Library
- Dunn, Dee, M.S. (Biscayne College), Director, Coconut Grove Crime Prevention Project, University Outreach and Services
- Dunn, Marvin, Ph.D. (University of Tennessee), Associate Vice President, University Outreach and Services
- Efron, Muriel C. M.S. (Drexel University), Assistant Director Public Services, Library
- Eisner, Toni, Ed.D. (University of Miami), Director of Centers and Institutes, University Outreach and Services
- Fisher, Robert C., Ph.D. (University of Kansas), Vice President for Academic Affairs
- Flanders, H. Juanita, Ph.D. (Bowling Green State University), Head, Acquisitions Dept.
- Flood, James F., B.A. (University of South Florida), Director, Personnel Relations
- Foster, Rosebud L., Ed.D., R.N. (University of Miami), Assistant Vice President, North Miami Campus
- Fornaguera, Andy, B.B.A. (University of Miami), Director of Internal Management, Auditing Unit
- Gallagher, Paul D., Ph.D. (Florida State University), Assistant Vice President for Academic Affairs
- Gonzalez, Esther B., M.L.S. (Kansas State Teachers College), Environmental and Urban Affairs Librarian, Library
- Gonzalez, Sandra, M.S.Ed. (Florida International University), Director, Tri-Ethnic Bilingual Program
- Gonzalez-Pando, Miguel, A.B.D. (Harvard University). Director of Latin Affairs
- Gonzalez Quevedo, Arnhilda, Ph.D. (University of North Carolina at Chapel Hill), Director, Division of Sponsored Research and Training
- Goslinga, Marian, M.S. (University of California), Associate Librarian, Library, Int'l Affairs Librarian
- Helm, James E., B.S.B.A. (University of Nebraska), Director, Southeast Regional Data Center
- Huitema, Jr., Sidney J., M.A. (Michigan State University), Head Wrestling Coach, Athletics
- Hunsicker, Gerald H., M.A. (Florida International University), Assistant Director of Athletics and Assistant Baseball Coach
- Kaufmann, Marshall L., M.A. (Trinity University), Director of Instructional Graphics
- King, Karel S., M.Ed. (Bowling Green State University), Assistant Dean, Student Affairs

### **College of Arts and Sciences**

# Introduction

#### **College of Arts & Sciences**

The College of Arts and Sciences is a Liberal Arts College. As such, it furthers the study of fundamental intellectual disciplines and renders service to the professional schools.

The Administrative units of the College offer departmental programs of study leading to bachelor degrees in biological sciences, economics, English, history, international relations, mathematical sciences (mathematics, statistics, computer science), modern languages (French, German, Italian, Portuguese, Spanish), performing arts (music, theatre), philosophy/religion (philosophy and/or religious studies), physical sciences (physics, chemistry, earth sciences, environmental studies), political science, psychology, sociology/anthropology, and visual arts.

The College also offers collegiate programs of study leading to bachelor degrees in humanities and liberal studies. Students may earn certificates, authorized by the College in Ethnic Studies, Caribbean/Latin American Studies, Consumer Affairs, Linguistics Studies, Marine Science, and Western Social and Political Thought.

A condition for any bachelor degree in the College requires that at least ten (10) quarter hours of elective credit stipulated in each academic major program be earned through course work taken outside the department sponsoring the program. A grade of C or better must be obtained in all courses required for the major. Moreover, students are encouraged to consider the possibility of taking a minor or certificate program besides their major, in order to enhance the liberal quality of their education.

#### Admission

A student holding an Associate degree from a community college (or having completed the equivalent course work at a four year school) will be admitted to the program of his or her choice. The college will also serve students who need to complete general education requirements or certain other requirements in order to enroll in specific discipline or professional programs.

#### **Anthropology Major**

Anthony Maingot, Chairperson and Professor James Mau, Dean, College of Arts and Sciences and Professor

Jerald Brown, Associate Professor Stephen Fjellman, Associate Professor Randy Kandel, Associate Professor Barry Levine, Associate Professor William Osborne, Associate Professor Judith Hoch, Assistant Professor Shearon Lowery, Assistant Professor William Vickers, Assistant Professor

Anthropology is part of the Department of Sociology and Anthropology and all information should be obtained from that Department's office.

LOCATION: Tamiami Campus

#### DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Ninety quarters hours (60 semester hours) or the Associate of Arts degree from a community college (work should be pre-Arts and Sciences or pre-Anthropology or Sociology if such programs exist.) If the student does not have an AA degree, his background must reflect an ability to handle advanced academic work.

Required Courses: Introduction to Cultural Anthropology, or Introduction to Physical Anthropology, or Introduction to Sociology. If these courses are not completed prior to entry to F1U, they will be required as a part of the upper division program.

Recommended Courses: (1) other anthropology courses, (2) ecology, economics, geography, history, political science, psychology, (3) arts, biology, English, foreign languages, mathematics, philosophy.

#### UPPER DIVISION PROGRAM:

	Qua	rter Hours	s
Required Courses:		45	5
Core Courses:		20	
ANT 3086	Anthropologica	1	
	Theories	5	
SOC 3610	Sociological		
	Theories	5	
SOC 3500	Research		
	Methods	5	
SSI 3303	Ethical Issues in	1	
	Social Science		
	Research	5	
AREA COURSES	: either		
Anthropology or S	Sociology	25	
Electives: with the	approval of the		
faculty advisor		45	5
		00	1
		. 7	,



NOTE: A student with special interests may consult faculty advisors to plan an individualized program of study.

A grade of C or better in all courses required for the major is necessary for graduation.

Field Work Experience-A meaningful understanding of anthropology and sociology can best be developed through the interplay of theory and research. Each student will be encouraged to work outside of the formal classroom under faculty supervision.

Minor in Sociology/Anthropology

PRESCRIBED COURSES: 25 credits in the Department of Sociology/Anthropology including the following:

2 courses chosen from among the four core courses required of departmental majors: ANT 3086 Anthropological Theories; SOC 3610 Sociological Theories; SOC 3500 Research Methods; SSI 3303 Ethical Issues in Social Science Research.

#### **Course Descriptions**

#### **Definition of Prefixes**

ANT-Anthropology; SOC-Sociology; SSI-Social Sciences-Interdisciplinary.

ANT 3000 The Scope of Anthropology (5) An introductory survey of the major areas of anthropological inquiry, including social, cultural, physical and applied anthropology, as well as archaeology and linguistics. An examination of the anthropological perspective.

#### ANT 3004 Makers of Modern Anthropology

(5)

The craft of anthropology is explored through the work and writings of such well-known anthropologists as Ruth Benedict, L. S. B. Leakey, Claude Levi-Strauss, Oscar Lewis, Margaret Mead and Robert Redfield. Designed for nonmajors; majors may enroll for elective credit only.

ANT 3086 Anthropological Theories (5) This course examines the process of theory building and explanation in the social sciences, and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution; Boas and historical particularism; Freud and culture and personality, and Malinowski and functionalism.

(Continued)

# / Anthropology

ANT 3144 Prehistory of the Americas (5) Early man in the Americas is examined through archaeological records.

ANT 3241 Myth, Ritual and Mysticism (5) A survey of anthropological approaches to the study of myth, ritual, and mysticism, as religious and symbolic systems. The social and psychological functions of myth and ritual in primitive and complex societies will be compared.

ANT 3251 Peasant Society (5) Comparative study of peasant societies with emphasis on the concepts of folk community, traditional culture, and modernization. Data on peasantry in Latin America and other culture areas will be reviewed.

ANT 3262 Agriculture and Society (5) An introduction to the role of agriculture in the development of civilization; comparative agricultural production systems; problems and prospects of agricultural development.

ANT 3263 World Food Supply (5) An examination of world food supply, including distribution patterns and problems. Comparisons between nutritional standards and human and economic development programs among industrialized and Third World nations are made.

### ANT 3302 Male and Female: Sex Roles and Sexuality (5)

Cross-cultural ethnographic data will be utilized to examine the enculturation of sex roles, attitudes and behavior; cultural definitions of maleness and femaleness; and varieties of human sexual awareness and response.

### ANT 3402 Anthropology of Contemporary Society

The application of classical anthropological methods and concepts to the analysis of contemporary American culture. Investigation of a unique cultural scene will involve the student in field work and the preparation of an ethnographic report.

(5)

ANT 3403 Cultural Ecology (5) Systems of interaction between man and his environment; the role of social, cultural and psychological factors in the maintenance and disruption of ecosystems; interrelations of technological and environmental changes.

ANT 3422 Kinship and Social Organization (5) Topics will include the comparative study of systems of kinship, social organization and politics in preliterate societies. Age and sex differences, division of labor, class, caste, slavery and serfdom will also be explored.

#### ANT 3425 Utopias and Intentional Communities

A case study examination of historical and contemporary attempts to develop the "ideal" social setting for human interaction. The community study approach in anthropology will serve as the theoretical basis for this course.

(5)

ANT 3432 Culture and Personality (5) The relationship between culture and personality; problems of individual adjustment to cultural norms; and current issues in psychological anthropology.

ANT 3435 The Individual in Anthropology (5) Study of the individual in his socio-cultural context; the place of the individual in anthropological theory; and the influence of culture on the individual through the use of biography, autobiography, journals, diaries, novels, and narratives.

ANT 3442 Urban Anthropology (5) Anthropological study of urbanization and urban life styles, with particular emphasis on rural-urban migration and its impact on kinship groups, voluntary associations, and cultural values.

ANT 3462 Medical Anthropology (5) A survey of basic concepts; examination of preliterate and non-western conceptions of physical and mental health and illness; emphasis on cultural systems approach to the study of illness and health care. Background in biology, medicine, or nursing helpful; instructor's permission required.

#### ANT 3476 Movements of Rebellion and Revitalization

Revitalization (5) Crosscultural study of revolutionary, messianistic, and revitalization movements in tribal and peasant societies. Case materials include Negro slave revolts, cargo cults, and peasant wars of the twentieth century (Mexico, China, Vietnam).

### ANT 3500 Origin and Dispersion of Man and Woman (5)

A study of the biological history of man as interpreted through the theory of evolution, anatomy and the fossil record, contemporary population genetics, and the concept of race.

ANT 3512 Social Biology (5) An examination of the biological bases for human adaption and sociocultural interaction.

#### ANT 3542 Human Biology and Cultural Behavior

Studies of animal social behavior and the relevance of these ethnological studies for the analysis of human development and socio-cultural behavior.

(5)

ANT 3733 Therapeutic Communities (5) Cross-cultural and inter-ethnic analysis of mental health and illness. Analysis of formal and informal community mental health delivery systems, with emphasis on clinical, humanistic, and therapeutic modalities.

# ANT 4007 The Organizer (5)

A study of men who have inspired mass organizations and brought about major social and cultural transformations. The organizing styles of Christ, Gandhi, Hitler, Mao Tse-tung, and Martin Luther King will be examined. The relationship between culture content and organizational symbols will be analyzed.

ANT 4224 Tribal Art and Aesthetics (5) This course deals with the social and cultural context and functions of art in preliterate societies as in sub-Saharan Africa, New Guinea, and North America. Topics include wood carving, bronze casting, singing, dancing, drumming, masquerading, theatrical performance, and all forms of oral literature.

ANT 4261 Environmental Revitalization (5) The course will present a cultural ecological framework for the analysis of the relationship between dietary habits, energy consumption, and land resource use; the growth of agribusiness: demise of rural society; and world food consumption patterns.

ANT 4211-4360-4361-4328 Area Studies (5) Ethnological survey of selected indigenous cultures. Areas to be studied include: (1) North America; (2) Africa; (3) Asia or Southeastern Asia; (4) China. Topics will be announced and will vary depending on current staff.

#### ANT 4242 Studies in Transpersonal Phenomena

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The data on transpersonal phenomena (such as psychic healing, trance induction, ESP, and expanded consciousness) will be reviewed and related to the cultural settings in which they were collected.

# ANT 4243 Witchcraft

Study of the theories, facts, and fantasies concerning witchcraft in western and non-western society, from socio-cultural, socio-historical and socio-psychological perspectives.

## ANT 4273 Law and Culture

A cross-cultural examination of the practical and theoretical relationships between the legal system and other aspects of culture and society.

# Anthropology

### ANT 4305 Explorations in Visual Anthropology

An examination of the use of film in anthropology, both as a method of ethnographic documentation and as a research technique for analyzing non-verbal modes of communication. Documentary films and cross-cultural data on paralanguage, kinesics, proxemics, and choreometrics will be reviewed and discussed.

ANT 4306 The Third World (5) An interdisciplinary, cross-cultural survey of the factors contributing to the emergence of the Third World. Significant political, economic, pan-national and pan-ethnic coalitions are analyzed.

ANT 4312 American Indian Ethnology (5) An examination of the sociocultural patterns of selected American Indian groups as they existed in the indigenous state, prior to European contact.

ANT 4314 The American South: A Regional Subculture (5)

A course designed to provide an understanding of the Southern regional subculture. Discussion topics will include an analysis of the sociocultural characteristics attributed to this region.

ANT 4315 Afro-American Anthropology (5) Interdisciplinary study of Afo-American cultures of the New World. Topics include cultural patterning. Black English, ethnomusicology, socio-economic adaptations, black culture and ghetto ethnography.

ANT 4324 Many Mexicos (5) An interdisciplinary examination of the major social, cultural, economic and political factors contributing to the transformation from the Aztec empire to colonial society to modern Mexico.

ANT 4328 Maya Civilization (5) A survey of the culture and intellectual achievements of the ancient Maya civilization of Mesoamerica. Course includes: history and social-political structure, archeology, agriculture and city planning, mathematics, hieroglyphics, astronomy, and calendars. No prerequisites.

ANT 4329 Research in Maya Civilization (5) Concentration is on hieroglyphic research with the inscriptions and Maya codices (Dresden, Madrid and Paris) as resource material. Students will be instructed in research techniques, including calendric counting procedures, correction of scribal errors, reconstruction of almanacs and methodology of decipherment. Supervised group projects will apply techniques

to original research and reporting of conclusions. Prerequisite: ANT 4328.

# ANT 4332 Latin America

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Native cultures of Mexico, Central and South America; the lowland hunters and gatherers and the pre-Columbian Inca and Aztec Empires; the impact of the Spanish conquest.

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ANT 4340 Cultures of the Caribbean (5) An ethnological survey of native cultures and of the processes of culture contact and conflict in the Caribbean and Circum-Caribbean region.

# ANT 4343 Cuban Culture and the Revolution

Cultural history of Indian. African and Spanish populations; the Revolution and traditional Cuban society; the problems and prospects of the Cuban community in the United States.

ANT 4352 African Peoples and Cultures (5) This course includes a survey of the cultures and civilizations of sub-Saharan Africa. It includes discussions of history, geography, sociopolitical structures, religion, art, music, and oral literature. No prerequisite.

ANT 4405 Culture and Consciousness (5) This course provides an introduction to the anthropological study of certain phenomena of consciousness. There are deep roots for the study of altered and/or higher states of consciousness in anthropology. Topics to be explored will include: vision questing, possession phenomena, trance dancing, glossalalia, curing, shamanism, and meditation.

### ANT 4406 Anthropology of War and Violence

ANT 4433 Psychological Anthropology (5) Cross-cultural studies in cognition, possession states, myth making and world view are examined. The interface of anthropology, psychology and psychiatry is reviewed.

ANT 4451 Racial and Cultural Minorities (5) The study of selected ethnic and cultural groups, with particular emphasis on patterns of interethnic and intercultural relationships. Minority groups studied may include Afro-Americans, American Indians, Chicanos, Cubans. women, senior citizens or prisoners.

### ANT 4452 The Rural Poor. Migrants. Sharecroppers and Tenant Farmers

The decline of the family farm and the rise of corporate agribusiness; the life styles of migrants, sharecroppers and tenant farmers; the farm labor movement and farmer cooperatives; government policy and the rural poor.

## ANT 4453 Culture and Poverty

Cultural patterns among the poor; current cultural models utilized in the study of poverty; the impact of cultural models on anti-poverty programs and public policy.

# ANT 4454 American Indians Today

An examination of the history of the American Indians since European contact, and their socio-cultural patterns as a contemporary American minority group.

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ANT 4460 Hallucinogens and Culture (5)Cross-cultural examination of the political, religious, and socio-cultural factors related to the use of hallucinogens. Case materials from tribal and contemporary societies will be analyzed, including the study of soma, the divine mushroom of immortality of the Hindu Rig-Veda; the native American Indian peyote cult; shamanism and healing in Latin America; the teachings of Don Juan, a Yaqui sorcerer, and the therapeutic uses of LSD. This course does not focus primarily on drug abuse and rehabilitation, although these topics are mentioned within the comparative context of the ethnographic data.

## ANT 4469 Special Topics in Medical Anthropology

Special courses dealing with advanced topics including: (1) folk medicine and ethnoscience; (2) nutritional anthropology; (3) anthropology and nursing; (4) medical anthropology and the elderly.

ANT 4474 Culture Shock: The Year 2000 (5) An investigation of future patterns of culture; an analysis of the concepts of culture lag, culture change, culture shock and future shock; a review of conceptual models for projecting the shape of past-industrial society to predict the relationship of man to his environment in the year 2000.

ANT 4705 Applied Anthropology (5) The theory and practice of applied anthropology; cultural factors and planned community change; implications of case data for public policy. Emphasis will be placed on the processes of economic development and culture change in developing nations.

ANT 4723 Education and Socialization (5) A crosscultural examination of educational and socialization processes, their functions in the larger society, and the value systems they transmit.

ANT 4907 Directed Individual Study (VAR) Supervised readings and/or field research and training. May be repeated.

ANT 4908 Directed Field Research (VAR) Permission of instructor required.

ANT 4930 Topics in Anthropology (5) Special courses dealing with advanced topics in the major anthropological subdisciplines: (1) social and cultural anthropology, (2) applied

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# **Biological Sciences**

anthropology, (3) physical anthropology, (4) linguistics, and (5) archaeology. Instruction by staff or visiting specialists. Topics to be announced. Instructor's permission required. May be repeated.

ANT 4944 Practicum Permission of the instructor required.

ANT 5466 Cultural Factors in Health Care Delivery

Topics studied include the varieties of subcultural perceptions of and responses to illness; formal and informal healing systems; the indigent patient; and the design of health care delivery services in a multicultural area. Prerequisite: medical anthropology course or permission of the instructor.

ANT 5468 Addicts and Addictions (5) A cross-cultural examination of the historical, sociocultural, and pharmacological factors involved in drug abuse and addiction. Various treatment programs are compared and evaluated.

ANT 5726 Anthropology for Educators (5) A course designed to provide educators, particularly at the secondary level, with an overview of anthropology as a discipline; its role in a social science curriculum; methods for designing and teaching anthropology courses; and sources of bibliographic and audio-visual aids.

ANT 5908 Directed Individual Study (VAR) Supervised readings and/or field research and training. May be repeated.

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

#### ANT 5937 Community Action Research Seminar

Seminar will focus on the application of social science data gathering techniques to the analysis and resolution of community issues, such as urban planning, environmental quality, and corporate consumer accountability. Open to majors only. Prerequisite: SOC 3500, or permission of the instructor.

SOC 3500 Research Methods (5) An introduction to the scientific method and its application to anthropological and sociological research. Topics include formulation of research problems, research design, field methods and collection of data, hypothesis testing, and interpretation of results.

SOC 3610 Sociological Theories (5) Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists with respect to their methodologies. Treats the emergence and consequences of modern society, political sociology, conception of social class, and analysis of the role of religion in society. The student is expected to gain in-depth knowledge of opposing theories, as well as an appreciation of the contingent nature of sociological theories.

**SSI 3010** Introduction to Social Science (5) An introduction to anthropology, psychology, and sociology; a survey of the similarities and differences in history and philosophy and goals and techniques of research in these disciplines; a review of modern interdisciplinary efforts.

SSI 3303 Ethical Issues in Social Science Research (5)

An introduction to the problems and possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists attempts to assume moral postures while examining social relations. Case studies involving issues such as nation building in areas of accelerated change, including Africa and Asia.

# **Biological Sciences Major**

Leon A. Cuervo, Associate Professor and Chairperson

Abraham M. Stein, Professor Chun-fan Chen, Associate Professor Walter M. Goldberg, Associate Professor Gerald L. Murison, Associate Professor Martin L. Tracey, Associate Professor John C. Makemson, Assistant Professor James A. McArthur, Assistant Professor Case K. Okubo, Assistant Professor George Taylor, Assistant Professor Carlo Ambrosino, Courtesy Professor Josel Szepsenwol, Courtesy Professor Anitra Thorhaug, Courtesy Professor

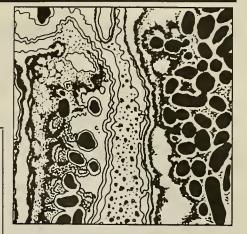
LOCATION: Tamiami Campus only DEGREE: Bachelor of Science

\*Students interested in teacher certification refer to the School of Education, page 2. LOWER DIVISION PREPARATION:

Required Courses: 8 semester hours in each of the following areas: general biology, general chemistry, and general physics; 9 semester hours in college algebra, trigonometry, and analytical geometry.

Recommended Courses: foreign language, calculus, organic chemistry.

*Remark:* 6 semester hours above the introductory level in biology may be counted toward the upper division major.



LOWER OR UPPER DIVISION PREPARATION: Two semesters or quarters of organic chemistry with laboratory.

UPPER DIVISION PROGRAM:

	Q	uartei	r Hours
<b>Required</b> Courses			
PCB 3043	Fundamentals of		
	Ecology	5	
PCB 3513 + L	Genetics	7	
PCB 3203 + L	Cell Physiology	7	
PCB 4723 + L	Animal Physiolog	gy 7	
	OR		
BOT 4504 + L	Plant Physiology	7	
ZOO 3603 + L	Embryology	7	
	OR		
PCB 4254	Developmental		
	Biology	5	
BSC 4931	Senior Seminar	2	
			33-35
	<b>Biological Science</b>	es	
	Electives 1.2.3		17
Mathematics	Courses chosen		
	from: MAC 3411	,	
	MAC 3412, STA		
	3122, STA 3123,		
	STA 3161		8-10
Electives			28-32

- <sup>1</sup> APB 3253, BOT 3823, BOT 3800, BSC 3023, BSC 3033, BSC 3913, BSC 3949, BSC 4914, BSC 4949, BSC 6916, MCB 3000 and PCB 3700 are not applicable to this requirement.
- <sup>2</sup> Electives will be chosen in consultation with faculty advisor.
- <sup>a</sup> One upper division course in botany from an approved list, and at least two courses at the 4000 or 5000 level are required for graduation. A grade of C or better in all courses required for the major is necessary for graduation.

# SPECIAL PROGRAMS

Bachelor of Science (with Honors)

Requirements:

- Admission to the Honors Program:
  - a. Permission of the Department. Application should be made after the third quarter at FIU and three quarters before graduation.
  - b. A minimal grade point average of 3.6

# **Biological Sciences**

based upon total college records or FIU records alone, whichever is higher. Graduation with Honors:

- a. A minimal grade point average of 3.7 based upon FIU records.
- b. Completion of Honors Curriculum.
  - I. General requirements for the Bachelor of Science degree in Biology must be met.
  - 2. The final year of the study program and the title and description of the thesis must be recommended by the student's sponsor (advisor) and approved by the Curriculum Committee.
  - 3. The Undergraduate Honors Thesis must be approved by the student's sponsor and presented in a seminar.

### Pre-Professional Curricula

Programs of study satisfying requirements for admission to colleges of medicine, dentistry and veterinary medicine arranged in consultation with faculty advisor. MAC 3411, CHM 3400, and ZOO 3603 are recommended as fulfilling requirements of many professional schools.

Certificate Program in Marine Sciences:

See section on certificate programs under College of Arts and Sciences.

Minor in Human Biology

Students may elect a minor in Human Biology by selecting four courses from the following list:

BSC 3023 Human Biology APB 3253 **Biological Basis of Human** Sexuality MCB 3013 General Microbiology PCB 3513 Genetics PCB 3873 **Biological Foundations of** Behavior ZOO 3731 Human Anatomy ZOO 3743 Neuroscience PCB 3700 Foundations of Human Physiology

(PCB 3702, PCB 3703, PCB 3704, and PCB 4701 are options for students who desire a more sophisticated course in Human Physiology). There are no prerequisites for BSC 3023, APB 3253, PCB 3701, ZOO 3731 and MCB 3000

2

Master of Science in Biological Sciences Cooperative program pending approval

# **Course Descriptions**

# **Definition of Prefixes**

APB-Applied Biology; BCH-Biochemistry; BSC-Introductory Biology; BOT-Botany; ENY-Entomology; MCB-Microbiology; OCB- Oceanography (Biological); PCB-Process Cell Biology; ZOO-Zoology.

# APB 3253 Biological Basis of Human

Sexuality (5) The physiological development of the human organism as a sexual being will be treated, with a review of the psycho-social and psycho-sexual bases of human personality. Patterns of adult sexual behavior will be explored, with emphasis on achieving healthy human sexual attitudes.

### **BCH 3033 Biochemistry**

Introduction to the chemistry of proteins, carbohydrates, lipids and their constituents. Principles of enzymology and metabolism. Prerequisites: Organic Chemistry I and II or permission of instructor.

**BCH 3033L Biochemistry Laboratory** (2)Laboratory to accompany BCH 3033. Prerequisites: BCH 3033 or concurrent registration in BCH 3033.

# BCH 5315 Biochemistry I

Chemical reactions and macromolecular properties of proteins, nucleic acids and polysaccharides. Genetic and evolutionary aspects of protein structure. Permission of instructor.

### BCH 5316 Biochemistry II

Comparative biochemistry: metabolism and regulation of metabolism in microorganisms, plants and animals; mechanisms of enzyme reactions. Prerequisites: BCH 3033 or equivalent or permission of instructor.

#### BCH 6505 Enzyme Chemistry

Physical and chemical properties of enzymes. Review of modern analytical technique in measurement of enzymatic reactions. Discussion of selected enzyme systems. Permission of instructor.

BOT 3353 Morphology of Vascular Plants (5) A survey of groups of vascular plants emphasizing comparative life histories, vegetative and productive structures, and evolutionary relationships. Prerequisites: I botany course or permission of instructor.

BOT 3353L Plant Morphology Laboratory (2)Laboratory to accompany BOT 3353.

**BOT 3663 Topics in Tropical Botany** (5) Survey of representatives of major plant families of the tropics. Examination of selected adaptive characteristics of plants in the tropical ecosystems. Introduction to spices and economically significant tropical plants. Prerequisites: General Chemistry or permission of instructor.

**BOT 3663L Tropical Botany Laboratory** (2) Laboratory to accompany BOT 3663

## **BOT 3800 Plants and People**

Survey of the uses of plant materials and of the botany of plant groups of human importance.

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### **BOT 3823 Horticulture**

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(5)Examination of theoretical and practical problems of plant growth and production. Prerequisite: A course in plant sciences or advanced biology or permission of instructor.

#### **BOT 4504 Plant Physiology** (5)

Survey of plant growth and metabolism emphasizing studies of responses to environmental stimuli. Prerequisite: I semester of Organic Chemistry.

BOT 4504L Plant Physiology Laboratory (2) Laboratory to be preceded by or taken concurrently with BOT 4504.

BOT 5665 Topics in Tropical Plant Science (5) Survey of living materials of at least 50 major tropical plant families. Developmental studies using tropical plant materials are reviewed from both physiological and morphological viewpoints in addition to lectures in economic botany, field studies of tropical fruit and spice trees

are carried out. At least four major tropical ecosystems are analyzed and examined in the field. Permission of instructor.

# BOT 5665L Topics in Tropical Plant Science

Laboratory (2)Laboratory to accompany BOT 5665. Permission of instructor.

### BOT 6536 Plant Physiology and Biochemistry

(5)Advanced topics emphasizing transport, plant hormones, tropisms and photosynthesis. Lecture, conference and laboratory. Prerequisites: Organic Chemistry or permission of instructor.

#### BOT 6536L Plant Physiology and Biochemistry Laboratory (2)

Laboratory to accompany BOT 6536. Permission of instructor.

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### BSC 3023 Human Biology

Human structure and function with emphasis on aspects that relate to human development, genetics and neurobiology. The relationship of these aspects to handicapping conditions with respect to mental retardation and behavioral disorders will be discussed. Primarily for nonscience majors.

### BSC 3033 Issues in Biology

Impact on society of recent developments in biological research. The course provides a general background for the intelligent discussion of problems related to states of disease, senescence and death, control of the growth of the population, genetic engineering and control of behavior. (Continued)

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# **Biological Sciences**

### **BSC 3913 Research Laboratory**

(3 - 8)Independent laboratory study in a project or projects of the student's choice. Registration by consultation with instructor. May be repeated for additional credit.

**BSC 3933 Topics in Biology** (2-5)An intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum.

**BSC 3934 Topics in Biology** (2-5)An intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum.

**BSC 3949 Cooperative Education in** Biology

A student majoring in biological sciences may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Co-op Education and major department.

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**BSC 4931 Senior Seminar** (2) An exploration of various research works in biological sciences.

## BSC 4949 Cooperative Education in Biology

A student majoring in biological sciences may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Co-op Education and major department.

**BSC 5931 Graduate Seminar** (5) Oral presentation of an assigned literature survey by senior and graduate students. Required of candidates in the Honors Program. Students may register for letter grade by oral presentation; or credit/no credit option by participation and submission of written report.

MCB 3000 Introductory Microbiology (5)Basic concepts of microbes as pathogens, food spoilage and fermentative organisms. Microbial relationships to immunology, sanitation, pollution and geochemical cycling. Not applicable for majors in Biological Sciences or Medical Technology.

### MCB 3000L Introductory Microbial Laboratory

(2)Basic Techniques of microscopy, cultivation and study of microorganisms. Cannot be used in place of MCB 3023L

MCB 3023 General Microbiology (5) Introduction to the principles and techniques of microbiology, genetics, taxonomy, biochemistry and ecology of microorganisms. Prerequisites: 1 semester of Organic Chemistry; 2 courses in Biology.

### MCB 3023L General Microbiology Laboratory

Laboratory to accompany MCB 3023. Prerequisites: 1 semester of Organic Chemistry; 2 courses in Biology.

MCB 4733 Marine Microbiology (5) Physiological-ecological study of the distribution in situ activity and biology of marine bacteria; public health significance of pathogens and microbial toxins conveyed to man; diseases of marine animals. Prerequisites: General Microbiology.

MCB 4733L Marine Microbiology Laboratory

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Laboratory and field investigations of marine bacteria. To accompany MCB 4733.

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

MCB 5505L Advanced Virology Laboratory (2) Laboratory to accompany MCB 5505.

MCB 5735 Marine Microbiology (5) As MCB 4733. Additional requirements for all graduate students. Prerequisites: General Microbiology.

MCB 5735L Marine Microbiology Laboratory

Lab to accompany MCB 5735.

OCB 3010 Biological Oceanography The basic aspects of biological, geological, chemical and physical oceanographic processes as they relate to marine organisms. Lecture and demonstrations. Prerequisites: 8 semester hours of Biology.

**OCB 3010L Biological Oceanography** Laboratory

Lab to accompany OCB 3010.

## **OCB 4674L Techniques in Biological** Oceanography

(2)A laboratory oriented course designed to acquaint the student with physical, chemical and biological techniques at sea. Shipboard experience will be a required part of the course. Prerequisites: Concurrent registration in OCB 3010; ZOO 3253, ZOO 3253L; 1 quarter of Organic Chemistry or permission of instructor.

**OCB 5635 Coral Reef Ecology** (5)Zoogeography, ecology and zonation, morphology, and paleontology of coral reefs around the world with emphasis on Caribbean forms. Growth, physiology, productivity as well as effects of predation, competition and pollution on coral reefs are also discussed.

# **OCB 5635L Coral Reef Ecology** Laboratory

Laboratory to accompany OCB 5635.

PCB 3043 Fundamentals of Ecology

The basic principles governing the interaction of organism and environment. Trophic structure and energetics of ecosystems; biogeochemical cycles; limits and controlling factors in organismic distribution and abundance; biological interactions; species diversity; evolution of populations and communities; the impact of man. Lecture and field trips. Prerequisites: One year of biology, basic chemistry.

## PCB 3043L Fundamentals of Ecology Laboratory

Laboratory to accompany PCB 3043.

PCB 3203 Cell Physiology

(5)A discussion of the physiology of cells from the biochemical and biophysical points of view. Enzyme structure and function, cellular metabolism and its regulation. Energy transductions and conservation, transfer of information: electrical and chemical signals. Cell cycle and cell division. Prerequisites: 8 semester hours of General Biology, General Physics, and Organic Chemistry.

PCB 3203L Cell Physiology Laboratory (2) Laboratory to accompany PCB 3203.

PCB 3233 Immunology (5) Fundamentals of immunology including antibody structure, immunopathology, molecular recognition at cell surfaces, immunological aspects of cancer biology. A previous course in microbiology is suggested but not required.

PCB 3233L Immunology Laboratory (2)Laboratory to accompany PCB 3233.

# PCB 3510 Issues in Genetics-recDNA and IO

Examination of the principles of Mendelian and molecular genetics. These basic principles will then be employed in interpreting for discussion recent developments in recDNA engineering. Examination of the inheritance of quantitatively varying traits and discussion of IO inheritance. Suitable for non-science majors.

PCB 3513 Genetics

Mendelian inheritance and introduction to molecular genetics.

PCB 3513L Genetics Laboratory (2)Laboratory to accompany PCB 3513.

(5)PCB 3612 Sociobiology

A study of the population genetics-ethology based explanations of the social behavior in animals.

# **Biological Sciences**

### PCB 3700 Foundations of Human Physiology

(5) Functional survey of the organ systems of the human body. Intended primarily for non-science majors.

PCB 3702 Intermediate Human Physiology (5) Functions of the human body and the physicochemical mechanisms responsible for each organ's function. Prerequisite: General Biology.

PCB 3702L Intermediate Human Physiology Laboratory (2)

Laboratory course demonstrating principles in PCB 3702.

PCB 3703 Human Physiology I (4-5)Basic facts and concepts relating to the physiology of cells and nervous, muscular, and cardiovascular systems, with emphasis on regulatory mechanisms and abnormal physiology. Prerequisites: One year of Biology or Zoology; Chemistry, and Physics.

PCB 3703L	Human Physiology 1	
	Laboratory	(1
Laboratory t	to accompany PCB 3703.	

PCB 3704 Human Physiology II (4-5)Physiology of respiratory, gastrointestinal, excretory, endocrine and reproductive systems. Continuation of PCB 3703. Prerequisites: One year of Biology or Zoology; Chemistry, and Physics.

PCB 3704L Human Physiology 11 Laboratory

Laboratory to accompany PCB 3704.

#### PCB 3873C Biological Foundations of Behavior

(5) Biological bases of behavior emphasizing neural and hormonal mechanisms of integrated behavior. Lecture, conference, library or laboratory projects.

PCB 4024 Cell Biology (5)Structure and function of cellular organelles. Prerequisites: Genetics or Cell Physiology, and Organic Chemistry.

PCB 4254 Developmental Biology (5) Comprehensive survey of principles of development and critical analysis of methods used to study these problems. Prerequisite: Molecular Biology.

PCB 4254L Experimental Biology (2)Laboratory techniques used in biological research. The specific techniques covered will depend on the field of work of the instructor responsible for the course during a given quarter. May be repeated for credit under different instructors. Permission of the instructor.

# PCB 4324 Terrestrial Ecology

A comprehensive survey of the planet's major terrestrial ecosystems and their characteristics. Emphasis on human impact and management of terrestrial biological resources. Specific treatment of zoogeography, pest control, agricultural ecology and management of wild areas. Prerequisites: One year of Biological Science and Ecology or permission of instructor.

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PCB 4324L Terrestrial Ecology Laboratory (2) Quantitative laboratory to accompany PCB 4324. Field exercises in vegetation analysis, community description, animal population dispersion, size estimations. Prerequisites: One year of Biology, Algebra, concurrent registration in PCB 4324.

# PCB 4524 Molecular Biology

An advanced treatment of nucleic acid and protein biochemistry. Emphasis will be placed on synthesis of macromolecules with topics to cover materials of recent interest in molecular genetics, such as genetic engineering, gene splicing and restriction enzymes. Prerequisites: Biochemistry or Genetics.

# PCB 4524L Molecular Biology Laboratory (2) Laboratory to accompany PCB 4524.

# PCB 4673 Evolution

(1)

A study of the synthetic theory of evolution, its historic and experimental justification and the mechanisms of natural selection. Prerequisites: Genetics, Ecology or permission of instructor.

PCB 4673L Evolution Laboratory (2)Laboratory to accompany PCB 4673.

PCB 4701 Human Systemic Physiology (5)Selected topics in mammalian and human physiology with emphasis on topics of clinical significance. Prerequisites: Introductory human physiology or a college level course in biology or chemistry.

PCB 4723 Animal Physiology (5)Advanced study of physiological mechanisms employed by animals to maintain function of the organ systems and to interact with the environment. Prerequisites: Organic Chemistry and Cell Physiology.

PCB 4723L Animal Physiology Laboratory (2) Laboratory to accompany PCB 4723.

PCB 5195 Microscopy/Microtechnique (5)Laboratory techniques of preparation and microscopic examination of cells, tissues and organs. Prerequisites: Histology and Histology Lab.

PCB 5205 Cell Physiology and Biophysics (5) Fundamental biophysical properties of membranes, transport of water and solutes across biological membranes, passive and active electrical phenomena in membrane systems. Biochemistry and biophysics of contractile mechanisms. Transfer of information from cell to cell. Bioluminescence. Effects of radiation on macromolecules. Prerequisites: Calculus and Physical Chemistry or permission of instructor.

PCB 5259 Topics in Developmental Biology(5) Molecular and cellular mechanisms in the development of plants and animals. Prerequisites: Senior status or permission of instructor.

### PCB 5615 Molecular and Organismal Evolution

(5) The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships are examined. The possible molecular events leading to speciation will then be considered. Prerequisites: Genetics and Biochemistry.

# PCB 5835 Neurophysiology

(5)Comparative neurophysiology; physico-chemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; sensory-motor function and neurophysiological basis of behavior. Prerequi-

sites: Biochemistry, Cell Physiology, Calculus. PCB 5835L Neurophysiology Laboratory (2)Laboratory to accompany PCB 5835.

ZOO 3253 Marine Invertebrate Zoology (5) Taxonomy, anatomy, development, physiology and ecology of major invertebrate phyla, excluding insects. Emphasis on marine invertebrates. Prerequisites: One year of biology or permission of instructor.

# ZOO 3253L Marine Invertebrate Zoology

Laboratory Laboratory to accompany ZOO 3253.

# ZOO 3513 Ethology

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The course is designed to introduce the student to the biological basis of behavior and to the ecological and evolutionary consequences of various behaviors. Prerequisites: One semester of zoology or two semesters of general biology.

# ZOO 3603 Embryology

(5)Animal morphogenesis. Prerequisites: One year of general biology with laboratory or general zoology and general botany with laboratory.

ZOO 3603L Embryology Laboratory (2)Laboratory to accompany ZOO 3603. Prerequisite: Concurrent enrollment in ZOO 3603.

ZOO 3731 Human Anatomy (4-5)Survey of organ systems of the human body. Prerequisites: One year of general biology with laboratory or general zoology and general botany with laboratory.

# **Economics**

#### ZOO 3731L Human Anatomy Demonstration

(1)

Demonstrations of the prosected human cadaver. Prerequisite: Concurrent enrollment in ZOO 3731.

**ZOO 3733 Human Gross Anatomy 1** (4–5) Structure and function of various tissues, organs and organ systems of the human body. Prerequisites: One year of general biology with laboratory or general zoology and general botany with laboratory.

### ZOO 3733L Human Gross Anatomy I Laboratory

Laboratory (2) Dissection of human cadaver material to reveal the relationships of the various organ systems of the body. Prerequisite: Concurrent enrollment in ZOO 3733.

ZOO 3734 Human Gross Anatomy II (4-5) Continuation of ZOO 3733. Prerequisite: One course in physiology; one course in anatomy.

ZOO 3734L Human Gross Anatomy II Laboratory (2) Continuation of ZOO 3733L. Prerequisites: ZOO 3733 and 3733L.

ZOO 3743 Neuroscience (4-6) Structure and function of the human nervous system. Prerequisites: One course in physiology plus Human Gross Anatomy I and II.

**ZOO 3743L Neuroscience Laboratory** (2) Dissection and demonstration of the various parts of the human brain. Laboratory to accompany ZOO 3743.

**ZOO 3753 Histology** (5) Microscopic anatomy of cells, tissues and organs. Prerequisite: General Introductory College Biology.

ZOO 3753L Histology Laboratory(2)Laboratory to accompany ZOO 3753. Prerequisite: General Introductory College Biology.

**ZOO 5265 Biology of Crustaceans** (5) Morphology, physiology, systematics and evolution of crustaceans.

ZOO 5265L Biology of Crustaceans	
Laboratory	(3)
Comprehensive laboratory study of the parative and functional morphology of taceans.	

**ZOO 5335 Systematic Zoology** (5) A practical and theoretical approach to evolutionary zoology. Prerequisites: 8 semester hours of biology or zoology.

# **Economics** Major

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Mira Wilkins, Professor and Acting Chairperson Raul Moncarz, Associate Professor D. Babatunde Thomas, Associate Professor Leonard P. Lardaro, Assistant Professor Peter J. Montiel, Assistant Professor Gezahegne Bekele, Assistant Professor Gordon V. Karels, Assistant Professor

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

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses: six semester hours in principles of economics; three semester hours in social science; six to nine semester hours in humanities; six semester hours in English composition; six semester hours in college algebra and trigonometry; three semester hours in statistics.

*Remarks:* The entering student who has not taken principles of economics must enroll in ECO 3003 during his or her *first* quarter at the University. Students who expect to go beyond the B.A. level in economics are advised to begin calculus at the lower division level.

UPPE	ER D	IVISI	ON 1	PROGI	RAM:

Que	arter Hours
Courses:	50
Theory of Price	5
Aggregate Economic	:
Analysis	5
Topics in Theory	5
Measurement and	
Analysis of Economic	ic
Activity	5
onomics Courses*	30
CO 3043 and ECO 34	432
ded in this grouping	
	40
	90
	Courses: Theory of Price Aggregate Economic Analysis Topics in Theory Measurement and Analysis of Econom

Remarks: A grade of C or better in all courses required for the major is necessary for graduation. A student may choose a program in general economics or concentrate in one of the following areas: urban and environmental economics, labor and manpower studies, international economics and development, monetary



and fiscal policy. The student should select courses in consultation with an advisor. *Minor in Economics* 

		Quarter Hour	rs -
Minor Required		2	0
ECO 3101	Theory of Price		
or			
ECO 3203	Aggregate Econo	mic	
	Analysis	5	
Additional Econ	nomics Courses*	15	
*ECO 3003, EC	O 3043, and ECO	) 3432	
cannot be include	ded in this groupi	ng 2	0
		and a second	

*Remark:* Introductory courses in calculus and statistics are strongly recommended for the student minoring in economics.

# **Course Descriptions**

# **Definition of Prefixes**

ECO-Economics; ECP-Economic Problems & Policy; ECS-Economic Systems & Development;

ECO 3003 Economics, Man and

Society (5) (F,W,S,SS) Relationship of economics to individual and group action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups. Public issue interpretation in the light of economic theory.

ECO 3043 Consumer Economics (5) Consumer behavior; advertising and other influences affecting demand. Patterns of consumer expenditure; effects of public policy on family incomes and consumption patterns. The consumer protection movement.

ECO 3101 Theory of Price (5) (W,SS) Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics. Recommended preparation: ECO 3003.

### ECO 3203 Aggregate Economic Analysis

Analysis (5) (F,S) Analysis of the measurement, determination, and control of aggregate economic activity; the monetary system in relation to income and employment; short-term income fluctuations; long-term growth. Recommended preparation: ECO 3003.

# **Economics**

### ECO 3223 Money and Banking

Elements of monetary theory; relationships between money, prices, production and employment; factors determining money supply; history and principles of banking, with special references to the United States.

# ECO 3271 Topics in Theory Welfare economics; analysis of factor markets

and income distribution; growth theory. Prerequisites: ECO 3101 and ECO 3203.

### ECO 3303 Development of Economic Thought

(5) Evolution of economic theory and doctrine. Contributions to economic thought from ancient times to J. M. Keynes. Emphasis on institutional forces shaping the continuum of economic thinking.

### ECO 3432 Applied Macroeconomics

(5) (F,S,W,SS) Aggregate economic performance and business conditions analysis. The nature and causes of business fluctuations. Economic expansions and stagflation. Public policies for economic stability; fiscal policy, monetary policy and income policy. Sectoral analysis and macroeconomic forecasting. Recommended preparation: ECO 3003.

### ECO 3949 Cooperative Education in Economics

(5)

(5)

(5)

(5)

A student majoring in Economics may spend several quarters fully employed in industry or government in a capacity relating to the major.

## ECO 4134 Capital Theory The role of capital in economic analysis. Capital and growth theory-turnpike theorems, ap-

plied capital theory and business optimality,

capital and distribution theory. Prerequisites: ECO 3101 or ECO 3203 and ECO 4401.

ECO 4224 Issues in Money and Banking (5) Formulation and execution of monetary policy. Analysis of monetary policy as it has been carried out in recent years, and as it should be conducted.

### ECO 4225 Money and National Income Determination

(5) The basic model of income determination is built, emphasizing the roles of real and monetary sectors of the economy. Results of empirical work are surveyed.

ECO 4307 Radical Political Economy (5)The relationship between Marxist and orthodox economists. Attention given to the New Left and other current criticisms of capitalist economies. Multinational corporate policy, concentration of economic power, income distribution. and Third World development.

## ECO 4401 Introduction to Mathematical Economics

Mathematical formulation of economic theory. Mathematical treatment of maximizing and optimizing behavior; applications to consumer and business firm theory, value, economic strategies, growth and stability. Emphasis on understanding of analytical techniques. Recommended preparation: ECO 3101 or ECO 3203, and calculus.

### ECO 4417 Measurement and Analysis of **Economic Activity**

(5)Statistics with special reference to economics, including the following topics: quantitative economics, descriptive statistics, probability and inference, and regression analysis applied to economics. Prerequisites: STA 3161.

ECO 4422 Introduction to Econometrics (5)Introduction to measurement in economics: numerical evaluation of mathematical models by statistical methods; survey of classical models; discussion of the scope and method of econometric analysis. Recommended preparation: ECO 3101 or ECO 3203 and ECO 4401 and statistics.

# ECO 4504 Economics of Government

Spending and Taxation (5) Describes the way resources are allocated in a market economy and cases where markets fail. Analyzes government expenditure policy, principles of taxation, and the various taxes in use today. Prerequisite: ECO 3003.

ECO 4603 Origins of Industrialization (5)The transformation of modern society. The earliest industrial revolution in England, 1750-1850, and its impact on the European continent.

#### ECO 4622 Economic Development of the United States (5)

The growth of the American economy from colonial times to the present. Special emphasis on market forces, institutional arrangements, and policies contributing to this process.

ECO 4623 American Business History (5) The growth of American business from 1880 to present; integration, diversification, and foreign expansion. Business strategies and managerial structures.

ECO 4632 European Economic History (5)The development of Mediterranean and Western European economies, from the earliest times to the 20th Century. Attention is centered on capital accumulation, technology, trade, industrialization, monetary factors, and the role of government in economic organization.

### ECO 4701 World Economy

(5)

A broad overview of the international economy in historical perspective. Topics: economic demography, trade flows, capital movements, diffusion of technology, the emergence of transnational institutions. The student obtains a conception of how economic interdependence has developed.

ECO 4703 International Economics (5)Principles of international trade and balance of payments; significance of geographic, economic, social, and political influences; current problems in international trade and payments: tariffs and commercial policy; role of international organizations. Recommended preparation: ECO 3101.

#### ECO 4713 International Monetary Relations

(5)

(5)

International money and capital markets; international financial institutions. Interpretation of balance of payments statements. Adjustments to disequilibria, through changes in prices, exchange rates, and national income. Recommended preparation: ECO 3203.

ECO 4733 Multinational Corporation (5)Growth and development of multinational enterprise. Theories of direct foreign investment. Impact on the United States and other developed and less developed nations. Policy implications relating to employment, economic growth, balance of payments, taxation, and national defense. National sovereignty and the multinational corporation.

ECO 4902 Undergraduate Tutorial (VAR) Supervised readings, individual tutorial, and preparation of reports. Requires consent of faculty supervisor and Department Chairperson.

### ECO 4949 Cooperative Education in Economics

(5)

A student majoring in Economics may spend several quarters fully employed in industry or government in a capacity relating to the major.

#### ECO 5115 Advanced Seminar in Economic Theory

(5)Variable-topic study group in theoretical problems. Open to seniors and graduate students

ECO 5216 Monetary Theory and Policy (5)Relationship of money supply and interest rate to economic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.

(5)

# **Economics**

### ECO 5423 Econometric Methods

Application of statistical methods to the estimation of simultaneous equation systems. Special topics including dynamic models, errors in variables, random coefficient regression. Prerequisites: MAC 3233 and STA 3161. Recommended preparation: ECO 4422.

ECO 5701 The World Economy (5) 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 M1B Program.

ECO 5906 Advanced Individual Study (VAR) Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

#### ECO 5938 Advanced Seminar in Applied Economics

Economics (5) Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students.

## ECO 6115 Graduate Seminar in Economic Theory (5)

Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 6236 Money and Monetary Policy (5) 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 6938 Individual Graduate

Study (5-10) (F,W,S,SS) Supervised readings, tutorial and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

ECP 3123 Economics of Poverty (5) Poverty in the United States: its measurement and history. Theory of personal income distribution. Present and proposed policies to alleviate poverty.

### ECP 3144 Economics of Race and Sex Discrimination

Economic and non-economic implications of discrimination on the basis of race and sex. Discrimination in the labor and commodity markets. Problems of educational training, unemployment, and personal income distribution.

(5)

### ECP 3303 Introduction to Environmental Economics

Economic principles applied to environmental problems. Relationship of market and nonmarket forces to environmental quality. Development of tools for policy analysis.

(5)

(5)

#### ECP 3613 Introduction to Urban Economics

Economics (5) Study of the urban environment, its characteristics and trends. Location behavior of firms and households. Urban financial problems, transportation, and housing.

ECP 3623 Regional Economics (5) The spatial order of the economy. Systems of cities, industrial location patterns, regional land use, interregional income and trade, regional economic expansion, population and migration.

# ECP 4003 Prosperity, Depression and Inflation

Historical analysis of the Great Depression, business cycles, inflation, and prosperity. Emphasis on the theories of economic cycles and inflation.

### ECP 4004 Seminar on Current Economic Topics

Faculty and student discussion of contemporary economic and social issues.

ECP 4013 Economics and Diplomacy (5) Description and analysis of interactions between economic and foreign policy. Free trade vs. protectionism; balance of payments problems; raw material needs and their influence on foreign policy; the "open door" policy; antitrust, taxation, and technology; East-West trade. The approach will be historical.

ECP 4203 Introduction to Labor Economics(5) Basic introduction to supply and demand for labor. Discusses labor markets in both historical and institutional context emphasizing why certain patterns have occurred and contemporary institutions developed. Prerequisite: ECO 3003.

ECP 4222 Theory of Labor Economics (5) Neoclassical theory of labor demand and labor supply, human capital theory and critiques. Current programs of human resource development and income maintenance are discussed. Prerequisite: ECO 3101.

ECP 4314 Land and Resource Economics (5) Availability, use, and control of land and other natural resources. Resource conservation, investment, and taxation. Environmental implications. Resource markets and pricing. ECP 4403 Economic Policy for Industry (5) Governmental activities affecting business. Government regulation of business—its historical, legal, and economic perspectives, including recent developments in the United States and abroad. Government assistance to business; proposed policies. Recommended preparation: ECO 3101.

ECP 4433 Economics of Transportation (5) Economic analysis applied to specific problems of transport. Effects of location and transportation cost on firm behavior; public regulation and policy; capacity, rate structure, service areas; problems of urban mass transportation. Recommended preparation: ECO 3101.

ECP 4515 Economics of Education (5) The concept of human capital and related topics. Comparison of education, occupation and output. Welfare economics and the finance of education. Productivity and efficiency of education.

ECP 4534 Medical and Health Economics (5) Economic analysis of medical and health services. Physician and dentist pricing; hospital supply; markets in health-related professions; drug and equipment markets; medical and health insurance; national priorities and policy for health service delivery. Recommended preparation: ECO 3101.

ECP 5605 Urban and Regional Economics (5) 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 or ECO 3203 and ECP 3303.

# ECP 6704 Managerial Economics I

# (5) (F,W,S,SS)

Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries; basic aggregate economic models and forecasting.

ECP 6705 Managerial Economics II (5) Extension of topics covered in ECP 6704. Includes capital budgeting, linear programming, pricing, decision making under uncertainty, recent developments in theory of the firm. Prerequisite: ECP 6704.

ECS 3003 Comparative Economic Systems (5) Analysis of alternative economic systems of industralized and emerging nations. Emphasis on the comparative study of the capitalist, socialist, and communist economic systems of the modern world.

# English 🗸

### ECS 3402 The Political Economy of South America (5)

An introduction to the political economy of the Latin American nations. Designed as a basis course to give the student an overview of the political economy of the nations with which we share this hemisphere.

ECS 3440 Economics of Central America (5) Survey of recent economic history of Central American countries, dealing with the institutional background and the structure of current economic activities. Special attention devoted to current problems of economic growth and social transformation.

### ECS 4013 Introduction to Economic Development

Analysis of institutional and structural factors which determine the course of economic progress in developing countries. Characteristics of less developed areas: agriculture, investment, technology, population, international trade, economic integration.

(5)

(5)

ECS 4014 Theories of Economic Progress (5) Dynamics of economic progress and change in industrialized and underindustrialized countries of the modern world. Historical theories of growth. Empirical case studies. Formulation of development projects and programs. Recommended preparation: ECO 3101 or ECO 3203.

ECS 4024 Economic Planning (5) Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output and programming techniques). Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower.

# ECS 4044 Economics of Technological Change

Economic analysis of technological possibilities in the production process, and the estimation of production and cost functions. Case studies of research and development (R&D) and technical innovation. Management of science and technology; transfer and adaptation of intermediate and advanced technologies to emerging nations.

ECS 4403 The Latin American Economies (5) Survey of economic status and problems of the Latin American nations, with special emphasis on the larger countries. Attention is given to the role of foreign intervention and dependence, and to different attempts at economic integration.

### ECS 4403 Las Economias Latino-Americanas

Estudio de los problemas economicos de Ibero-America, con enfasis en los países mas grandes. Estudio detallado de problemas de intervencion, dependenia, y integracion economica.

### ECS 4404 Economic Integration-Latin America

America (5) Analysis of the methods, meaning and implications of economics in Latin America. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation. Prerequisite: ECO 3003, or equivalent.

### ECS 4430 The Economic Development of Cuba-Past and Present

Cuba-Past and Present (5) Survey of the Cuban economy under capitalist and Marxist ideologies. Emphasis on the transition stage and on current policies of economic and social change.

### ECS 4432 Economic Integration-Caribbean

Caribbean (5) Analysis of the methods, meaning and implications of economic integration in the Caribbean. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation.

ECS 4433 Economics of the Caribbean (5) Survey of the economic systems of the major British, French, Dutch and Spanish areas in the Caribbean. Special attention devoted to current problems of economic growth and social transformation.

### ECS 5025 Economic Problems of Emerging Nations (5)

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. Recommended preparation: ECO 3101 or ECO 3203.



# **English Major**

(5)

Donald Watson, Associate Professor and Acting Chairperson Harry T. Antrim, Professor Richard A. Dwyer, Professor

Butler H. Waugh, Professor St. George Tucker Arnold, Associate Professor Lynn M. Berk, Associate Professor Charles Elkins, Associate Professor James Hall, Associate Professor

Richard Sugg, Associate Professor Mary Jane Elkins, Assistant Professor

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Arts

LOWER DIVISION REQUIREMENTS:

Required Courses: A two-semester (or quarter) survey of British or American Literature. This requirement can be fulfilled at FIU.

*Remark:* The prospective secondary school teacher should take the Foundations of Education courses in the lower division. (Students interested in teacher certification refer to the School of Education, pg. 2.

# UPPER DIVISION PROGRAM:

	Quarter Hours
Required Courses:	45
English	
Electives:	45
	00

The English Department recognizes a continuing obligation to insure that its majors write well. The Chairman may require any English major to take the appropriate composition course. (Hours earned in ENC 3424-Problems in Composition-will *not* count toward the English major.)

An English major may choose to take a general program of English studies or may select one of the Department's three areas of emphasis: literature, language and linguistics, or creative writing. Majors should choose their English courses and electives in consultation with their advisors, especially upon entering the program.

A student in any of the emphases may apply for admission to the Honors Program. Application should be made with the Department Chairperson who will consult with the Honors Committee.

# English

Students in the Teacher Preparation Program carry two majors-English and English Education. They must request admission to both programs. (Students interested in teacher certification, refer to the School of Education, page 2.

A grade of C of better in all courses required for the major is necessary for graduation.

# **Course Descriptions**

### **Definition of Prefixes**

AML-American Literature; CRW-Creative Writing; ENC-English Composition; ENG-English-general; ENL-English Literature; HUM-Humanities; LIN-Linguistics; LIT-Literature; MMC-Mass Media Communication.

#### AML 4144 Periods in American

Literature (5)(F,W,S,SS) Individual sections will read and discuss works in the context of such historical settings as the colonial, federal, antebellum, reconstruction, or other periods of the American past. May be repeated.

### AML 5212 Major American Literary

Figures (5)(F,W,S,SS) Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin, or others.

CRW 4240 Writing Fiction (5)(W,SS) An intermediate course in writing fiction. Admission requires consent of instructor.

CRW 4340 Writing Poetry (5)(F,S) An intermediate course in writing poetry. Admission requires consent of the instructor.

# ENC 3034 Problems in English

Composition (5)(F,W,S,SS) A composition course designed to improve basic writing skills. Special attention will be paid to grammar, sentence construction, paragraph development, and overall organization.

### ENC 3353 Report and Technical Writing

Writing (5)(F,W,S) For business, professional, and scientific students needing practice in collecting, organizing, interpreting, and presenting factual material.

ENC 3453 Expository Writing (5)(F,W,S,SS) An advanced composition course in the techniques of exposition, argumentation, and persuasion.

ENC 4522 Rhetoric and Poetics (5) Ancient and modern theory and practice in discussing the formal properties of elevated language.

# ENG 3070 Research and Writing

This course has dual objectives: to acquaint students with basic research methodologies, and give students practice in communicating the data generated by their research. Assignments will include such matters as researching information, documentation, organization, revising rough drafts and presenting the final draft. The primary emphasis will be on using the student's own interests and background as a source of relevant topics upon which to write.

(3)(S,F)

**ENG 3101 Major Literary Modes (5)(F,W,S)** Individual sections will read and discuss the literary expression of heroic, tragic, comic, satiric, mythic, realistic or other formalized views of human existence. May be repeated.

## ENG 3137 The Movies (5)(F,S) Viewing and discussion of films, with attention to cinematic ways of story-telling and to the popular film as an expression of cultural values.

**ENG 3500 English Linguistics** (5)(F,W) Study of the sounds, vocabulary and sentence patterns of standard modern English. Other topics include meaning, social and regional dialects, language change, and style.

# ENG 3949 Cooperative Education

in English (5) A student majoring in English may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

# ENG 4949 Cooperative Education

in English (5) A student majoring in English may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

### ENG 4103 Major Literary Genres

(5)(F,W,S,SS) Individual sections will read and discuss the form and development of novels, drama, poetry, short fiction, or such special forms as biographies, folksongs and tales, or essays, among other genres. May be repeated.

### ENG 4134 History of the Film

Discussion, with examples, of the development of cinematic art, from its European and American beginnings to its place as a major world art form.

(5)

ENG 4141 Studies in the Film (5) Intensive examination of the work of a particular industry, group, or director. May also explore various film genres, e.g., documentary, horror, the Western. With change of content, may be retaken for credit.

## ENG 4151 Structure and Function of Mass Media (5)

Will include the study of such topics as: mass communication and society, popular culture, communication and social order, classic studies in mass communication, propaganda, mass media and government, and problems of the mass media. Topics will vary from quarter to quarter.

ENG 4555 Modern English Grammar (5) Practical study of syntax. Prerequisite: ENG 3500, or consent of the instructor.

### ENG 4574 Black English

This course is a linguistic approach to the characteristics and functions of Black English and the current social controversies surrounding it.

### ENG 4906 Independent Study

## (Variable)(F,W,S,SS)

Individual conferences, assigned readings, and reports on independent investigations, with the consent of the Chairperson.

## ENG 5517 History of the English

Language (5)(S) Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century to modern times. Prerequisite: ENG 3500, or consent of

# ENG 5816 Literary Criticism and

the instructor.

# Scholarship

(5)

(5)

Techniques and goals of humanistic research, bibliography, and critical commentary.

# ENG 5907 Independent Study

# (Variable)(F,W,S,SS)

Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

# ENG 6909 Independent Study

# (Variable)(F,W,S,SS)

Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENL 4137 Shakespeare: Histories (5)(S) Reading and informal dramatic interpretation of representative plays.

ENL 4138 Shakespeare: Comedies (5)(F) Reading and informal dramatic interpretation of representative plays.

ENL 4139 Shakespeare: Tragedies (5)(W) Reading and informal dramatic interpretation of representative plays.

# A&S 14

# **College of Arts and Sciences**

# **Environmental Studies**

### ENL 4540 Periods in English Literature (5)(F,W,S)

Individual sections will read and discuss works in the context of such historical settings as the medieval, Tudor, Restoration, Victorian, and other periods of the English past. (May be repeated.)

### ENG 5220 Major British Literary Figures (5)(F,W,S,SS)

Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

LIN 4400 Applied Linguistics (5) Linguistics in the classroom. English as a second language. Stylistics. Dialects.

# LIT 3333 Survey of Afro-American

Literature (5) Study of Afro-American literature from Phyllis Wheatley to James Baldwin. The first half of the course will be concentrated on writers before World War II while the second half will give students the opportunity to study authors from 1920 to present.

LIT 3510 Themes in Literature (5)(F,W,S,SS) Individual sections will read and discuss works relating to topics of current and enduring interest. Discussion of literature as it reflects the identities of men and women: their places in families, in past, present, and future societies, in the natural world, and the cosmic order. May be repeated.

LIT 3930 Special Topics (Variable)(F,W,S,SS) A course designed to give students an opportunity to pursue special studies not otherwise offered. Requires consent of the Chairperson.

LIT **4290** Regional Literature in English (5) Individual sections will discuss English writing in Ireland, Scotland, Wales, Canada, the Caribbean, India, sub-Saharan Africa, and Oceania, as well as distinctive regions in England and America. May be repeated.

### LIT 4349 Rhetoric and Communication: Black Rhetoric (5)

Black people in America have been involved in several significant movements designed primarily to meet the challenges of institutionalized racism. The course will focus on these movements, i.e., abolition, segregation, integration, and emigration, giving special emphasis to each of the movements' leading rhetors, their arguments, counter-arguments, and appeals.

### LIT 4401 Literature Among the Arts and Sciences

Individual sections will relate the study of literature to other disciplines in the humanities, fine arts, the social and natural sciences. May be repeated.

(5)

LIT 4930 Special Topics (Variable)(F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the Chairperson.

LIT 5542 Literary Movements (5)(F,W,S) Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, the Harlem Renaissance, and others. May be repeated.

LIT 5934 Special Topics (Variable)(F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the Chairperson.

LIT 6934 Special Topics (Variable)(F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the Chairperson.

# **Environmental Studies**

- Dr. T. Pliske, Director, Physical Sciences/ Biological Sciences Dr. K. Boodhoo, International Relations Dr. J. Brown, Anthropology Dr. R. Clem, International Relations Dr. W. Goldberg, Biological Sciences Dr. J. Gottlieb, Political Sciences Dr. K. Hardy, Physical Sciences Dr. A. Herriott, Physical Sciences Dr. J. Huchingson, Philosophy/Religion Dr. F. Jhabvala, International Relations Dr. F. Maurrasse, Physical Sciences Dr. J. Parker, Physical Sciences Dr. J. Parker, Physical Sciences Dr. J. Rotton, Psychology
- Dr. J. Sheldon, Physical Sciences
- Dr. K. Williams, Physical Sciences

This is an interdisciplinary program, involving eight departments in the College of Arts and Sciences (Physical Sciences; Biological Sciences; Psychology; Political Science; Anthro-



pology/Sociology; International Relations; Philosophy/Religion; and Economics), which prepares students to work in professions with an environmental emphasis. Students may choose either a Bachelor of Arts (non science) program or a Bachelor of Science (science) program. Degrees are awarded by the Department of Physical Sciences.

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Recommended Courses: Natural History of South Florida; Conservation of Natural Resources; Man and Environment; College Algebra.

# UPPER DIVISION PREPARATION:

Required Courses: ECO 3003 - Economics, Man, and Society; POS 4044 - Government and Politics of the United States.

UPPER DIVI	SION PROGRAM:		
Required Cour.	ses:		45
ANT 3403	Cultural Ecology	5	
ECP 3303			
	Environmental		
	Economics	5	
EVR 3011-	Environmental Science	15	
3012-			
3013			
EVR 4920	Environmental		
	Colloquium	5	
EVR 4905	Independent Study or		
	Community Project	5	
PHM 4030	Man and Nature	5	
PUP 4203	<b>Environmental Politics</b>		
	and Policies	5	
Area of Specia	lization Courses:		15
The student m	ust take three courses fro	om or	ie
of the areas h	pelow.		
Energy and R	esource Management		
	World Food Supply		
ECP 4314	Land and Resource		
	Economics		
EVR 4311	Energy Resources		
	(required for this		
	concentration)		
GEO 3510			
GLY 3106	Environmental Earth		
	Sciences		
INR 4054	World Resources, World	1	
	Order		

EVR 4311

# **Environmental Studies**

Human Ecolog	nv.		
ANT 4261	Environmental		
	Revitalization		
DHE 3300	Human Ecology		
PHR 4931	Technology and Human		
	Values		
POS 4154	Topics in Urban		
	Politics: Urban and		
	Environmental Planning		
SOP 4712	Environmental		
	Psychology		
	Political Issues		
INR 3043	Population and Society		
INR 4044	World Population		
	Problems		
INR 4054	World Resources and		
D.0.0.4044	World Order		
POS 4933	Environmental Planning		
PUP 3206	and Law		
r0r 3200	International Law and the Environment		
	the Environment		
In exceptiona	l circumstances, the student, in		
	with an environmental advisor,		
may substitute approved courses for Area of			
Specialization requirements.			
Electives 30			
	90		
A grade of C	or better in all courses required		
for the major	is necessary for graduation.		
	achelor of Science		
	ISION PREPARATION:		
Required Courses: Equivalent of 8 semester			
hours of gener	ral biology and general chemistry;		
3 semester hours of algebra and trigonometry.			
	Courses: General Physics, Physi-		
cal Geology, Conservation of Natural Re-			
	and Environment, Calculus.		
Lower or Upper Division Requirements: ECO -			
Economics, Man and Society; POS 4044 - U.S.			
Government and Politics; COP 3110 - Intro-			
	omputers; STA 3122 - Introduc-		
tion to Statist			
UPPER DIV	ISION PROGRAM:		

Required Courses:		4
CHM 3120	Quantitative	
	Analysis or	7
EVS 3420C	Environmental	
	Instrumentation	
ECP 3303	Introduction to	
	Environmental	
	Economics	5
EVR 3013	Environmental	
	Science III:	
	Ecology of South	
	Florida	5
EVR 4211	Water Resources	5
EVR 4231	Air Resources	5

EVR 4920       Environmental Colloquium or       5         EVR 4905       Independent Study       5         PCB 3043       Fundamentals of Ecology       5         PUP 4203       Environmental Politics and Policy       5         Electives:       Additional courses may be taken in consulta tion with an advisor in a particular area of em phasis such as:       1. Energy and Resources	_
EVR 4905       Independent Study       5         PCB 3043       Fundamentals of       Ecology       5         PUP 4203       Environmental       Politics and Policy       5         Electives:       Additional courses may be taken in consultation with an advisor in a particular area of emphasis such as:       1. Energy and Resources	-
PCB 3043 Fundamentals of Ecology 5 PUP 4203 Environmental Politics and Policy 5 Electives: Additional courses may be taken in consulta tion with an advisor in a particular area of em phasis such as: 1. Energy and Resources	_
PUP 4203       Ecology       5         PUP 4203       Environmental Politics and Policy       5         Electives:       Additional courses may be taken in consulta tion with an advisor in a particular area of em phasis such as: <ul> <li>I. Energy and Resources</li> </ul> 5	_
PUP 4203 Environmental Politics and Policy 5 Electives: Additional courses may be taken in consulta tion with an advisor in a particular area of em phasis such as: 1. Energy and Resources	_
Politics and Policy 5 Electives: Additional courses may be taken in consulta tion with an advisor in a particular area of em phasis such as: 1. Energy and Resources	-
Electives: Additional courses may be taken in consulta tion with an advisor in a particular area of em phasis such as: 1. Energy and Resources	-
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phasis such as: 1. Energy and Resources	-
1. Energy and Resources	
2. Aquatic Ecology	
3. Terrestrial Ecology	
4. Air Resources	
Energy and Resources Courses	
CHM 3400 Physical Chemistry	
for Life Sciences 5	
ETM 4225C Energy Systems 5	
ETM 4225C Energy Systems 5 GEO 3510 Earth Resources 5	
GLY 3215 Mineralogy 5	
Aquatic Foolom: Courses	
Aquatic Ecology Courses EVS 3219C Aquatic Systems 5	
Microbiology 7 MCB 3023 General	
85	
OCB 3010 Biological	
Oceanography 5 OCB 5635 Marine Ecology 5	
OCE 3014 Physical	
Oceanography 5 ZOO 3253 The Invertebrates 5	
Terrestrial Ecology Courses	
BOT 3503 Introduction to	
Plant Physiology 5	
Plant Physiology 5 BOT 3663 Topics in Tropical	
Plant Physiology 5 BOT 3663 Topics in Tropical Botany 5	
Plant Physiology 5 BOT 3663 Topics in Tropical Botany 5 ENY 3004 Entomology 5	
Plant Physiology 5 BOT 3663 Topics in Tropical Botany 5 ENY 3004 Entomology 5 MCB 3023 General	
Plant Physiology 5 BOT 3663 Topics in Tropical Botany 5 ENY 3004 Entomology 5 MCB 3023 General Microbiology 7	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources CoursesKenter State5	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources Courses CHM 3200Survey of Organic5	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources Courses CHM 3200Survey of Organic Chemistry7	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources Courses CHM 3200Survey of Organic Chemistry7CHM 3400Physical Chemistry7	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources Courses CHM 3200Survey of Organic Chemistry for the Life7	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources Courses CHM 3200Survey of Organic Chemistry for the Life Sciences7	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources Courses CHM 3200Survey of Organic Chemistry for the Life Sciences7CHM 3400Physical Chemistry for the Life Sciences5EVR 5236Air Pollution5	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources CoursesCHM 3200Survey of Organic Chemistry for the Life Sciences7CHM 3400Physical Chemistry for the Life Sciences5EVR 5236Air Pollution Dynamics5	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources CoursesCHM 3200Survey of Organic Chemistry7CHM 3400Physical Chemistry for the Life Sciences5EVR 5236Air Pollution Dynamics5MET 4701Meteorology5	
Plant Physiology5BOT 3663Topics in Tropical Botany5ENY 3004Entomology5ENY 3004Entomology5MCB 3023General Microbiology7MET 4701Meteorology5PCB 4324Terrestrial Ecology7Air Resources CoursesCHM 3200Survey of Organic Chemistry for the Life Sciences7CHM 3400Physical Chemistry for the Life Sciences5EVR 5236Air Pollution Dynamics5	ed.

**Energy Resources** 

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# Master's Program in Environmental and Urban Systems

Students wishing advanced training in environmental studies may apply to enter the M.S. program in environmental and urban systems, sponsored in cooperation with the School of Technology. The following options or tracks are available in the M.S. program:

Environmental Quality

Urban Planning Systems

Aquatic Resources

Air Resources

Energy Systems

For further information and a complete description of the course offerings, see MASTER OF SCIENCE DEGREE PRO-GRAM listed separately under Engineering Technology in the School of Technology.

### **Cooperative Education**

Students seeking the baccalaureate degree in environmental studies may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends several quarters fully employed in industry or a governmental agency. For further information consult the Department of Physical Sciences, or the Department of Cooperative Education.

# **Course Descriptions**

### **Definition of Prefixes**

ANT-Anthropology; BOT-Botany; CHM-Chemistry; DHE-Demography and Human Ecology; ECP-Economic Problems and Policy; ENY-Entomology; ETM-Engineering Tech.: Mechanical; EVR-Environmental Studies; EVS-Environmental Science Technology; GEO-Geography-Systematic; GLY-Geology; INR-International Relations; ISC-Interdisciplinary Natural Science; MCB-Microbiology; MET-Meteorology; OCB-Oceanography: Biology; OCE-Oceanography; PCB-Process Cell Biology; PHM-Philosophy of Man and Society; PHR-Interdisciplinary Philosophy/ Religion; POS-Political Science; PUP-Public Policy; SOP-Social Psychology; ZOO-Zoology.

## ANTHROPOLOGY

ANT	3403	Cultural Ecology	(5)
ANT	3263	World Food Supply	(5)

ANT 4261 Environmental Revitalization (5)

**BIOLOGICAL SCIENCES** 

# A&S 16

# **College of Arts and Sciences**

# **Environmental Studies**

BOT 3503 Introduction to Plant Physiology	
BOT 3663 Topics in Tropical Botany	(5)
BOT 5665 Topics in Tropical Plant Science	
BOT 5665L Topics in Tropical Plant Scien Laboratory	ce (2)
ENY 3004 General Entomology	(5)
ENY 3004L General Entomology	
Laboratory	(2)
MCB 3000 Introductory Microbiology	(5)
MCB 3000L Introductory Microbiology Laboratory	(2)
MCB 3023 General Microbiology	(5)
MCB 3023L General Microbiology Laboratory	(2)
OCB 3010 Biological Oceanography	(5)
OCB 5635 Marine Ecology	(5)
PCB 3043 Fundamental Ecology	(5)
PCB 3043L Fundamental Ecology	(0)
Laboratory	(2)
PCB 4324 Terrestrial Ecology	(5)
PCB 4324L Terrestrial Ecology	(3)
Laboratory	(2)
OCB 5635 Marine Ecology	(5)
OCB 5635L Marine Ecology Laboratory ZOO 3253 Marine Invertebrate Zoology	(2) (5)
ZOO 3253L Invertebrates Laboratory	(3)
ZOO 3423 Amphibians and Reptiles	(2)
ZOO 3433 Birds and Mammals	(5)
ZOO 3513 Ethology	(5)
ECONOMICS	()
ECP 3303 Introduction to Environmental	
Economics	(5)
ECP 4314 Land and Resource Economics	(5)
PHYSICAL SCIENCES- ENVIRONMENTAL STUDIES	
EVR 3011 Environmental Science I	(5)
EVR 3012 Environmental Science II	(5)
EVR 3013 Environmental Science III: Ecology of South Florida	(5)
EVR 3931 Topics in Environmental Studie	s (5)
EVR 4021 Survey of Environmental	
Problems I	(5)
EVR 4022 Survey of Environmental Problems II	(5)

EVR 4211 Water Resources	(5)
EVR 4231 Air Resources	(5)
EVR 4311 Energy Resources	(5)
EVR 4905 Research and Independent Study (	VAR)
EVR 4920 Environmental Colloquium	(5)
EVR 5061 South Florida Ecology: Field Studies (3)	(W,S)
EVR 5141 Environmental Nuclear Chemistry	(5)
EVR 5236 Air Pollution Dynamics	(5) (5)
EVR 5907 Research and Independent	VAR)
	R)(W)
EVR 5936 Topics in Environmental Studi	es (5)
MET 4701 Meteorology	(5)
Policy: Urban and Environmer Planning	ntal (5)
POS 4933 Environmental Planning and Law	(5)
PUP 4203 Environmental Politics and Policy	(5)
PSYCHOLOGY	
SOP 4712 Environmental Psychology	(5)
INTERNATIONAL RELATIONS	
INR 3043 Population and Society	(5)
INR 4044 World Population Problems	(5)
INR 4054 World Resources and World Order	(5)
PUP 3206 International Law and the Environment	(5)
PHILOSOPHY AND RELIGIOUS STUDIES	
PHM 4030 Man and Nature	(5)
PHR 4931 Technology and Human Value	es (5)
PHYSICAL SCIENCES-CHEMISTRY	,
CHM 3120 Quantitative Analysis	(5)
CHM 3120L Quantitative Analysis Laboratory	(2)
CHM 3200 Survey of Organic Chemistry	(5)
CHM 3200L Survey of Organic Chemist Laboratory	гу (2)
CHM 3400 Physical Chemistry for the L Sciences	ife (5)

CHM 3400L Physical Chemistry for the Li	-
Sciences Laboratory	(2)
PHYSICAL SCIENCES-EARTH SCIEN	ICE
EVS 4164 Applied Environmental Geology	(5)
EVS 4164L Applied Environmental Geolog Laboratory	y (1)
GEO 3510 Earth Resources	(5)
GLY 3106 Environmental Earth Sciences	(5)
GLY 3215 Mineralogy	(5)
GLY 3215L Mineralogy Laboratory	(1)
GLY 3850 Environmental Geology	(5)
GLY 3850L Environmental Geology	
Laboratory	(1)
OCE 3014 Physical Oceanography	(5)
POLITICAL SCIENCE	
POS 4154 Topics in Urban Politics and	
Policy: Urban and Environment Planning	al (5)
POS 4933 Environmental Planning and	
Law	(5)
PUP 4203 Environmental Politics and Policy	(5)
PSYCHOLOGY	
SOP 4712 Environmental Psychology	(5)
SCHOOL OF TECHNOLOGY COURSI	<b>x</b> -7
ETM 4225C Energy Systems	(5)
EVS 3219C Aquatic Systems	(5)
EVS 3420C Environmental Instrumentation	ı (5)

# History /

(5)

# **History Major**

Howard Kaminsky, Professor and Chairperson Eric Leed, Associate Professor Brian Peterson, Associate Professor Howard Rock, Associate Professor Joyce Peterson, Assistant Professor Darden Asbury Pyron, Assistant Professor Mark D. Szuchman, Assistant Professor

LOCATION: Tamiami Campus only

DEGREE: *Bachelor of Arts* (\*Students interested in teacher certification refer to the School of Education, page 2.

LOWER DIVISION PREPARATION:

Required Courses: None

*Remark:* 6 semester hours of advanced history courses may be counted toward the upper division major.

UPPER DIVISION PROGRAM: *Major:* 

Quarter Hours

Required Courses:	
HIS 3001 Introduction to History or	5
HIS 3104 Ideas and Methods of	
History	5
Courses in the following areas:	
<ol> <li>Medieval History</li> </ol>	5
2. Modern European History	5
3. U.S. History	5
4. Asian, African, Latin American or	
Caribbean History	5
General History Courses	20
These categories are indicated by	
bracketed numbers at the end of each	
course description.	45
Electives:	45
	90
Minor:	
Quarter	Hours
Required Courses:	
HIS 3001 Introduction to History	5
General History Courses	20
	25

A grade of C or better in all courses required for the major is necessary for graduation.

# **Course Descriptions**

# **Definition of Prefixes**

AMH-American History; EDF-Education: Foundations; EUH-European History; HIS-General; LAH-Latin American History; WOH-World History. AMH 3130 The American Revolution (5) An exploration of the nature of the Revolution from the beginning of the conflict in 1763 through the ratification of the Constitution in 1789. Discussion of the political and economic differences between the colonists and England, along with the meaning that the war had to the different classes of Americans.[3]

# AMH 3170 Civil War and

Reconstruction (5) The course will examine the rise and sources of militant sectionalism in the United States, the war itself, and the restoration of the nation. [3]

AMH 3251 The Great Depression (5) This course deals with the experience of the American people in the Great Depression of the 1930s. It examines causes of the depression, government response, and effectiveness of response, as well as looking at the actual daily experience of people during the depression and the changes the depression made in U.S. society. [3]

AMH 3270 Contemporary U.S. History (5) An examination of major trends, forces and personalities that have shaped the recent American past. [3]

AMH 3275 The Kennedy Era (5) This course will explore the Kennedy image and the reality of the Kennedy family's impact within the context of recent American political and social history. [3]

AMH 3317 America and the Movies (5) An examination of the social and cultural history of 20th century America through its movies. [3]

AMH 3331 American Intellectual History I (5) This course will trace the origins and development of the main ideas and intellectual themes of Anglo-American history during the colonial and early national period, 1600-1815. It will stress social ideas and popular concepts, and relate them to the formation of dominant American national characteristics. [3]

#### AMH 3332 American Intellectual History II

History II (5) This course will emphasize the full flowering of individualistic liberalism in 19th century American thought, and trace the implications of and reaction against this tradition down to the present. [3]

### AMH 3354 American Presidents: Washington to McKinley (5)

This course will examine the personalities, policies and politics of American presidents in the 18th and 19th centuries. [3]



## AMH 3355 Twentieth Century American Presidents

This course will examine the personalities, policies and politics of American presidents from Theodore Roosevelt to the present. [3]

AMH 3420 Florida History

A history of Florida from the time of the Indian until today. The course covers political, economic, social and cultural developments; it devotes special attention to the dependent position of Florida in the national economy, and the impact of this dependence on resources and people. [3]

AMH 3428 Miami Social History (5) An examination of the history of South Florida and the ethnic groups which make up the Miami population, particularly Blacks, Jews, Cubans and white southerners. [3]

AMH 3440 The Great American West (5) The course will explore the meaning of the West for both the settlers and modern Americans. Using song, film, novels, art, etc., the course will examine the lives and values of the Indians, mountain men, farmers, ranchers, and cowboys. [3]

AMH 3500 United States Labor History (5) A history of the experience of working class people in the United States and of the trade union movement from colonial times to the present. [3]

### AMH 3560 History of Women in the United States (5)

A survey of the changing dimensions of women's lives from the colonial era of U.S. history to the present. The course will examine the changing economic, social and political position of women as well as the development of feminist movements and organizations. [3]

# AMH 3570 Afro-American History (5)

A survey of Black society in the United States and its relation to the political, economic, social and cultural history of America. [3]

### AMH 4025 The United States in the 19th Century

This course will cover the period characterized

(5)

# History

by "laissez faire" ideology, from Jackson to McKinley. It will focus upon developments in national politics and the ways in which they reflect economic growth and changes in the social structure. [3]

### AMH 4030 Twentieth Century United States History (5)

This course will cover the history of the U.S. from the election of McKinley in 1896 to the Watergate crisis of the 1970s. [3]

#### AMH 4110 Colonial U.S. History, 1600-1750

1600–1750 (5) This course will examine the American colonial experience from the earliest settlements at Jamestown and Plymouth to the eve of the American Revolution. Particular emphasis will be on religion, social structure, politics and slavery. [3]

### AMH 4150 The U.S. in the National Period, 1750-1830 (5)

An examination of American history from the American Revolution through the Age of Jackson. This course will emphasize the growth of democratic politics and political parties, the spirit of nationalism, the problem of slavery, and the westward movement. [3]

AMH 4930 Topics in U.S. History (5) An examination of selected topics of themes in U.S. history. The themes will vary from quarter to quarter. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [3]

EDF 3521 Education in History (5) An examination of the concepts of childhood, and processes of social initiation in differing historical contexts.

EUH 3100 The Ancient Near East (5) A survey of the history of ancient Mesopotamia. Egypt and Israel. The course will stress the interaction of social structure with religion in each of the three societies.

EUH 3142 Renaissance and Reformation (5) A study of the development of humanism in ltaly and Protestantism in Germany, and the impact of these new philosophies on Europe in the fourteenth, fifteenth and sixteenth centuries. [2]

### EUH 3186 History of King Arthur and the Knightly Legend

A study of Arthurian romance from the 12th to the 15th centuries, as the self-image of aristocracy. The following themes will be emphasized: chivalry, adventure, erotic idealism, Christian consecration and the creation of secular individualism. [1] **EUH 3203 Europe in the 17th Century** (5) An examination of the "radical century" which defined many of the values of the modern age: the work ethic, the scientific view of nature, the notion of market society, the modern state, and bourgeois ideology. The course will emphasize the Puritan Revolution in England and rise of absolute monarchy in France. [2]

EUH 3420 Greece and Rome (5) An examination of the society, politics and culture of Ancient Greece and Rome.

EUH 4006 Modern Europe, 1789-Present (5) An examination of European history from the French Revolution until today, with special attention to liberalism, nationalism, socialism, communism and fascism. The course will touch on the main points of the national histories of the various European states, from Britain to Russia. [2]

### EUH 3452 The French Revolution and the Enlightenment (5)

An examination of the intellectual and social origins of the French Revolution, focusing upon the old regime in France, the ideas of Rousseau and the philosophies and traditions of social protest in the 18th century. [2]

### EUH 3460 Germany from Charlemagne to Hitler (5)

An overview of German history with special emphasis on the development of the National Socialist movement. Political, economic, social, cultural and religious aspects of German history will be covered. [2]

# EUH 3570 Russian History

An overview of Russian History from the time of tribal Slavs until today. The course will focus especially on the changing conditions of the Russian peasantry and on the unique development of the Russian state. [2]

(5)

(5)

#### EUH 3576 The Russian Revolution and the Soviet Union (5)

This course deals with Russia since 1917 and focuses particularly on the theory and practice of communism in the Soviet Union. The impact of communism on the lives of the people, whether in politics, economics, or culture, will be examined. [2]

## EUH 3601 Medieval Culture

(5)

Selected topics in the cultural history of Europe from 500 to 1500: epic and knightly romance; Christian theology and spirituality; scholastic philosophy; Romanesque and Gothic arts; the rise of literature in the vernacular; the culture of the layman; and the contribution of women. [1] EUH 3611 European Cultural History (10) An examination of changes in the social and political structure of Europe through film, art and literature. This is an introductory course to both European social history and cultural history in the last two hundred years. [2]

#### EUH 4121 Europe in the Earlier Middle Ages

Middle Ages (5) A history of Europe from the fall of the Roman Empire in the West (ca. 500 AD) to the first Crusade (1095). The formation of feudal society, the military upper class, the imperial papacy, the monastic order, the interplay between Christian and worldly ideals. [1]

#### EUH 4123 Europe in the Later Middle Ages

Middle Ages (5) Europe from the twelfth through the fifteenth centuries. The formation of territorial states and an aristocratic order of status: Romanesque and Gothic arts; courtly romance and chivalry; development of subjectivity and individual self-consciousness; heresy, inquisition, and social revolution. [1]

(5)

(5)

## EUH 4187 Topics in Medieval European History

An examination of selected topics or themes in Medieval history. The themes will vary from quarter to quarter. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [1]

### EUH 4200 Early Modern Europe, 1500-1650

An examination of the major events and movements which signaled the beginning of modernization in Europe: the voyages of discovery, the new representations in art, and the rise and triumph of religious dissent. [2]

#### EUH 4201 Early Modern Europe 1650-1789

An examination of European society as it developed between the English Civil War and the French Revolution. The consolidation of the "Old Regime." [2]

EUH 4205 Modern Europe, 1789–1900 (5) This course will examine the two major revolutions which have shaped our time: the French Revolution and the Industrial Revolution. Beginning with Rousseau, the course will explore industrializing England, and end with an analysis of European politics and culture on the eve of World War I. [2]

EUH 4206 Modern Europe, 1900-Present (5) An examination of Europe from the first World War to the present. The course will explore the impact of industrialization, the World Wars, and the rise of fascism and communism. [2]

# History

(5) EUH 4286 Topics in European History An examination of selected topics or themes in early modern and modern European history. The themes will vary from quarter to quarter. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [2]

(5) HIS 3001 Introduction to History Approaches to the study of the Western tradition. Required of all majors and those seeking certification to teach history.

HIS 3104 Ideas and Methods of History (5)An overview of the philosophy and treatment of history through the ages and of modern methods to research it. Can be substituted for HIS 3001 to fulfill major and certification requirements.

HIS 3244 History of Communism (5)A survey of the history of communism from the writings of Marx through the Soviet, Chinese, and Cuban revolutions. The course will consider communism both in theory and in practice.

HIS 3308 War and Society (5)An examination of the ways societies have organized themselves for external and internal wars. The course will also explore the changing conduct of war, the image of the warrior, and the ways in which military institutions have crystalized class structures.

### HIS 3473 The History of Science and Technology

This course will examine the history of western civilization in terms of the development of science and technology. It will focus upon the invention of new techniques and productive processes, and upon the way technology and science have shaped western society, particularly in regard to art and ideas.

(5)

HIS 3930 Special Topics (VAR) An examination of specific themes or topics in history. The theme will vary from quarter to quarter. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule).

HIS 4908 Independent Study (VAR) Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor.

HIS 4930 Special Topics (VAR) An examination of specific themes or topics in history. The theme will vary from quarter to quarter. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule).

# HIS 5289 Comparative History

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

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

HIS 5910 Advanced Research and Seminar (5) Small group sessions which will analyze particular subject areas in history, with the consent of the instructor.

HIS 5930 Special Topics (VAR) An examination of specific themes or topics in history. The theme will vary from quarter to may be repeated. (The theme will be announced in the yearly schedule).

#### LAH 3020 Introduction to Latin American History (5)

This course is an introduction to the history of the major social, cultural and political institutions of Latin America. It covers both the colonial and national periods of leading Latin American countries. [4]

LAH 3410 Mexico and the Caribbean (5) An overview of the themes that have generated the histories of several nations in and around the Caribbean since the nineteenth century. [4]

LAH 3482 Cuba from Bourbons to Castro (5) An overview of the socio-economic and political setting in Cuba since the mid-nineteenth century. [4]

### LAH 4132 Colonial Latin America: The Formative Period

(5) An examination of Latin America in the formative period, focusing upon the Iberian experiences, conquest, reconquest, ethnic amalgamation, and Latin American economy and social organization in the 15th and 16th centuries. [4]

### LAH 4133 Colonial Latin America: The Mature Period

(5) An examination of Colonial Latin America in the 17th and 18th centuries. The course will focus upon the formation of the landed estate, urban functions, labor, Indian relations, the Church, and the Enlightenment. [4]

### LAH 4201 Latin America: The 19th Century

(5)

(5)

A review of important issues of nation-building in the more influential Latin American countries. Topics will include federalism, centralism, immigration, economic development, and imperalism. [4]

# LAH 4300 Latin America:

(5)

The Modern Period A review of topics in the histories of selected Latin American nations that have developed since the late 19th century, including discussion of race relations, dictatorship, modernization, capitalism, and leftist and rightist solutions. [4]

LAH 4474 Topics in Caribbean History (5)An examination of selected topics or themes in Caribbean history. The themes will vary from quarter to quarter. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

LAH 4511 Argentina, 1776 to the Present (5) A survey of the social and political formation of the Argentine nation, starting with the colonial legacy and ending with the contemporary political situation. [4]

### LAH 4932 Topics in Latin American History

(5)

An examination of selected topics or themes in Latin American history. The themes will vary from quarter to quarter. With a change in. theme, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

### WOH 3002 History of Western Civilization

(5)

An overview of Western Civilization from the Ancient Near East until today, with special attention to the social structures and values as they developed over time. Literature, art, philosophy and other aspects of culture will be examined through readings, art slides, films and lectures in order to develop a comprehensive view.

# WOH 3244 The World Since Hitler, Stalin

and Roosevelt (5)An examination of the world-wide political struggle between capitalism and communism. The course will stress domestic as well as international power-political rivalries. Special emphasis will be given to Japan, China, Cuba, France, the United States, India, and Eastern\_ Europe.

# **Humanities**

### WOH 3280 Women's History

A survey of the position of women in the major world civilizations. The course examines the position of women from the stone age to the present, with particular attention to both women's actual function in society and the ideal definition of womanhood in different societies.

(5)

WOH 3283 Jewish History (5) A survey of the major currents of Jewish history.

WOH 3300 Third World Civilizations (5) An overview of the civilizations of Asia, Africa and Latin America from ancient times until today, with special attention to the social structures and values of each civilization. Literature, art, philosophy and religion will be examined through readings, art slides, films and lectures in order to develop a comprehensive view. [4]

# **Humanities Major**

Charles Elkins, Associate Professor of English and Director of Humanities Barbara Forbes, Assistant Professor of Art Kenneth Henley, Assistant Professor of Philosophy

Ramon Mendoza, Professor of Modern Languages

Joyce Peterson, Assistant Professor of History Richard P. Sugg, Associate Professor of English

The Humanities program at F.I.U.'s North Miami campus offers a well-structured, interdisciplinary curriculum. The goal envisioned by this program is to confront the student with those values and issues concerning man and society which extend beyond the scope of both natural and social sciences, and which cannot be adequately described and analyzed by the methodologies of these sciences.

The Humanities focus primarily upon the nature of man and his values, as well as upon his major concerns in society and his views of the world. These concerns are now, and have been through the ages, the preferred object of thought of philosophers, poets, dramatists, fictionists and mystics. Their views, manifested primarily in written texts, have become the reservoir of mankind's most outstanding intellectual achievements. Such texts include the works of painters, musicians, and sculptors, as well as the productions of mass media and popular culture which must now engage the serious student of our century's culture and its future.

The Humanities program, however, will not be merely theoretical. It seeks to develop in the student those skills and attitudes which are more specifically human. These are primarily all skills of verbal and written communication, analytical skills, and open-minded and critical attitudes towards the problems of our changing society. Also, the development of artistic sensitivity and expression, and of all forms of imaginative creativity, will be main targets of our program. Above all, the program hopes to challenge the student to become a decisive factor in raising the cultural level of our society by bringing his or her humanistic approach to bear upon its individuals, institutions, and cultural programs through the mass media. The program will be particularly useful to students who wish to pursue post-graduate degrees requiring a general educational background, such as Law School, International Relations, and all the traditional Liberal Arts programs.

A grade of C or better in all courses required for the major is necessary for graduation.

LOCATION: North Miami Campus only

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Recommended Courses: a basic interdisciplinary survey of Western civilization, including the Ancient, Renaissance and Modern worlds; foreign language; English composition and literature.

UPPER DIVISION PROGRAM:

Seven Humanities courses (35 hours) distributed among the following areas:

- HUM 3225 Introduction to Humanities: Ancient World
- HUM 3226 Introduction to Humanities: Medieval/Renaissance World
- HUM 3230 Introduction to Humanities: Modern World
- HUM 4920 Humanities Colloquium

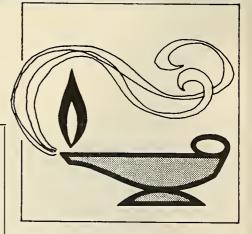
Three courses chosen from among the following:

- HUM 3024 Introduction to the Humanities
- HUM 3026 The Modern World
- HUM 3302 & 3872 & 3891 Perspectives in the Humanities
- HUM 3813 & 3941 Applied Humanities
- HUM 4391-4542 Major Human Concerns

HUM 4496 Latin American Civilization HUM 4450 & 4491 Cultural Heritages and

Changes

- HUM 4406 Film Artists
- HUM 4906 Humanities Independent Study
- Four Elective discipline courses (20 hours),
  - chosen from all those offered by: English
  - Modern Languages



Philosophy & Religion History

Fine Arts Seven general electives (35 hours)

These courses may be taken outside of the major.

Language Requirement:

Students must demonstrate a reading knowledge of a language other than their native tongue equivalent to the end of the third quarter of beginning language instruction. This requirement may be satisfied by completing 15 hours of language instruction or by passing a competency examination administered by the Department of Modern Languages.

# **Course Descriptions**

**Definition of Prefixes** 

HUM-Humanities The Humanities faculty will offer courses in the following:

HUM 3024 Introduction to Humanities (5) This course introduces the student to the methodologies of the various humanistic disciplines and exposes the student to the ways in which research and scholarship in the humanities are communicated.

HUM 3026 The Modern World

This course focuses on crucial issues and prospects in the contemporary world which are of concern to humanists.

HUM 3225 Introduction to the Humanities: Ancient World (5)

This course traces some humanistic concerns of man from pre-historic times through Greek and Roman civilizations.

### HUM 3226 Introduction to the Humanities: Medieval/Renaissance World (5)

This course focuses on issues in the humanities • as they evolved from the fall of the Roman Empire to the end of the Renaissance.

#### HUM 3230 Introduction to the Humanities: Modern World (5)

The objectives of this course are to examine the major issues confronting humanists in the contemporary world.

(5)

# International Relations /

HUM 3813 & 3941 Applied Humanities (5) In these courses, the faculty and students will attempt to answer questions such as: What is the role of the Humanities in social change? ... in the formation of individual and collective psychologies? ... in artistic creativity and scientific experimentation? How can the skills in verbal and written communication that the Humanities teach be applied in the contemporary world?

### HUM 3872 & 3302 & 3891 Perspectives of the Humanities

Courses in this area will focus upon specific topics which involve a study of the nature and methods of the Humanities; the role and relationship of the Humanities to mass media; the functions of the Humanities in democratic and socialist countries; the relationships of the Humanities to science, technology, and the professions.

## HUM 3949 Cooperative Education in Humanities

(5) A student majoring in Humanities may spend several quarters fully employed in industry in a capacity relating to the major.

#### HUM 4450 & 4491 Cultural Heritages and (5) **Cultural Changes**

The focus here will be upon varieties of culture in the past and present-literary culture and media culture, for example-upon cultural evolution and revolution; upon ethnicity and pluralism; upon subcultures and countercultures.

HUM 4542 & 4391 Human Concerns (5)Courses under this heading will concentrate upon various concepts of the study of human nature and human society; the place of the religious and the erotic; work, play, and leisure; human rights and social policies; and man's vision of his future.

# HUM 4920 Colloquium

The colloquium will provide a forum for discussion of contemporary issues and problems about which the Humanities should have important things to say. Faculty and students will pursue the meaning and future of the Humanities in an industrial and technological society, in the education processes and social institutions of today.

# HUM 4949 Cooperative Education in **Humanities**

(5) A student majoring in Humanities may spend several quarters fully employed in industry in a capacity relating to the major.

# COURSES IN RELATED DISCIPLINES

Humanities majors should develop their programs of study by choosing courses in English, History, Philosophy, Religion, and Modern Languages that will add to their skills in communication, broaden their knowledge of the arts and literature, and increase their understanding of their cultural past. The Humanities faculty will work closely with the students to tailor each program of study to particular interests and needs.

# **International Relations** Major

Ken I. Boodhoo, Associate Professor and Chairperson

Ralph S. Clem, Associate Professor Thomas A. Breslin, Assistant Professor Farrokh Jhabvala, Assistant Professor

Charles G. MacDonald, Assistant Professor Terry L. McIntosh, Assistant Professor Ivan C. Harnanan, Visiting Assistant Professor LOCATION: Tamiami and North Miami Campuses

DEGREE: Bachelor of Arts

A grade of C or better in all courses required for the major is necessary for graduation.

LOWER DIVISION PREPARATION:

Recommended Courses: Economics, foreign languages, geography, history, international relations, introduction to statistics, political science, sociology.

UPPER DIVISION PROGRAM: Major:

	Quarter Hours
<b>Required</b> Courses	15
GEA 3000	World Regional
	Geography
INR 3003	Foundations of
	International Relations
INR 4605	Approaches to
	International Relations

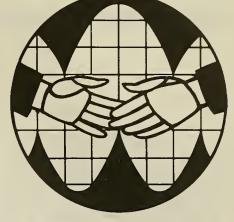
Breadth Requirements:

At least one course in each of the

following:

(5)

- Area studies (regional courses on Europe, the Caribbean, Latin America, Africa,
- Asia, or the Soviet Union)
- Population Studies or Geography International Law or Organization
- Issues and Problems in International Relations



# Other Requirements:

Ten additional credits in international relations, of which 5 must be taken within the department and 5 may be in approved internationally related courses from other departments or schools (for example: political science; economics; sociology; business; hospitality management).

Electives

Courses designed to meet particular professional goals. The student is encouraged to consider a dual major in related fields; to pursue courses in foreign languages and methodology; and to work toward appropriate academic certificates (i.e., Caribbean Studies, Latin American Studies).

# Minor in International Relations:

25 A student majoring in another academic discipline will earn a minor in International Relations by successfully completing at least 25 hours of approved coursework in the Department of International Relations. This program must include:

- 1) Foundations of International Relations (INR 3003)
- 2) World Regional Geography (GEA 3000) or an approved course in Geography
- 3) A course in International Law or Organization
- 4) Two electives in International Relations

THE DUAL MAJOR: The student is encouraged to pursue a dual major within the 90 quarter hour upper division requirement: the balance of 45 guarter hours between the 90 required to graduate and the 45 required for the major in International Relations is almost always sufficient to satisfy the requirements of a second major. The dual major program allows a student to add an important international dimension (and certification) in other academic fields.

# **Course Descriptions**

# **Definition of Prefixes**

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CPO-Comparative Politics; GEA-Geography -Regional (Area); HFT-Hospitality, Food, Tourism; INR-International Relations; POS-Political Science; PUP-Public Policy; SOC-Sociology.

45

90

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# **International Relations**

(5)

(5)

#### CPO 3326 Population and Geography of the Caribbean (5)

Introduction to the physical, cultural and political geography of the Caribbean. Emphasis on population patterns, problems of population growth, and ethnicity.

GEA 3000 World Regional Geography (5)A systematic survey of the major regions and countries of the world, with regard to their physical, cultural, and political characteristics. Emphasis upon climate, natural resources, economic development, and population patterns.

# GEA 3172 Geography of the Developing World

Examines the geographical factors shaping the differences between more and less-developed countries, and prospects for narrowing these in the future. Stress is laid on the need to utilize efficiently the physical environment and the human barriers to such utilization.

# GEA 3400 Population and Geography of Latin America

Introduction to the physical, cultural, and political geography of Latin America. Emphasis on population patterns and problems of population growth, systems of land use and tenure, economic development, natural resources, and agriculture.

#### GEA 3554 Population and Geography of the Soviet Union (5)

An analysis of the U.S.S.R. in terms of its resources; economic development; and aspects of population change such as migration, urbanization, and nationality groups.

# GEA 3600 Population and Geography of Africa

Introduction to the physical, cultural, and political geography of Africa. Emphasis on the evolution of independent states, and economic development.

# GEA 3630 Population and Geography of the Middle East

Introduction to the physical, cultural, and political geography of the Middle East. Emphasis on population patterns, natural resources, and economic development.

# GEA 3710 Population and Geography of China

(5) Introduction to the physical, social and cultural geography of China. Emphasis on population patterns, problems of population growth, regionalism.

# GEA 5200 Topics in Social Geography

(5) Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisite: GEA 3000 or permission of instructor

# HFT 3700 Tourism and International Affairs

(5)An introduction to basic elements of international tourism; an inquiry into the transnational influence of tourism as affected by its institutional organization, by the leisure traveler, and by the host national; and a review of opportunities for policy-making by the group, the State, and international and global agencies.

# HFT 4700 Alternate Tourism Scenarios and

Strategies (5)A course for the student familiar with tourism in the context of international affairs; tourism as migratory aspect; tourism as international medium; tourism and the export of technology; tourism and national dependency; the marketing of globalism through tourism; others. The course includes strategies laboratory.

## INR 3003 Foundations in International Relations

(5)An examination of international political, economic, and social systems. Emphasis is placed on basic approaches to the study of international relations.

#### INR 3004 Patterns of International Relations

(5) The course deals with the development and practice of key concepts of international relations as seen in the historical perspective of the 19th and 20th centuries. The course is structured so as to emphasize the continuity and coexistence of the several concepts during the 20th century, and to provide an outline of modern diplomatic history.

## INR 3031 The Future of the International System

(5)Explores probable and improbable international futures through the use of simulations, gaming, and speculative literature. Focuses upon alternatives to present international arrangements.

#### **INR 3043** Population and Society (5)Introduction to basic demographic concepts:

fertility, mortality, migration, urbanization. Discussion of economic development, modernization and population change. Examination of sources of data and background information including censuses and vital statistics, and their utilization.

# INR 3081 Issues and Problems in International Relations

Examines selected world and regional issues and problems Topics vary according to the instructor.

INR 3214 International Relations of Europe(5) An examination of the international, social. economic, and political life of contemporary Europe. Emphasis given to international organizations and the trend toward economic and political integration.

### **INR 3224** International Relations of East Asia

(5)A survey of the patterns of international relations in the post-colonial perios in east and southeast Asia. Political, military and economic aspects examined.

# INR 3226 International Relations of South Asia

(5)

(5)

A study of South Asia as a regional international system with special emphasis on the period 1945 to the present. Interaction between the regional and world systems. Role of the super-powers.

INR 3231 International Relations of China (5) An examination of the development of China's international relations in the 20th century. Special attention to the development of institutional mechanisms for diplomacy and to problems of integrating domestic and foreign policies.

## **INR 3245 International Relations of Latin** America

(5)An examination of international, social, economic, and political life of Latin America. Emphasis given to the role of international organizations; regionalism; and the trend toward economic integration.

#### INR 3246 International Relations of the Caribbean

(5)An examination of the international social, economic, and political life of the Caribbean. Includes English, Spanish, and French speaking regions.

#### INR 3274 International Relations of the Middle East

(5) An examination of the international social, economic, and political life of the Middle East. The role of oil in the region will receive special attention.

(5)

(5)

# **International Relations**

(5)

(5)

## INR 3403 International Law

(5)

Introduction to the legal concepts, framework and institutions which play a role in international relations theory and practice.

### INR 3404 Principles of Public International Law (5)

A study of public international law principles in selected areas such as treatics; state succession; law of the sea; air and space law; law of international economic institutions' international conflict resolutions procedures.

**INR 3502 International Organizations** (5) The study of international political, economic, and social organizations and their impact upon the relations between nations. Emphasis on the constitution, voting, membership, security and operation of such organizations, and the settling of international disputes through these bodies.

## INR 3949 Cooperative Education in Social Sciences (5)

A student majoring in one of the Social Sciences (Economics, International Relations, Political Sciences, Sociology, or Psychology) may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

### INR 4024 Ethnicity and Nationality: World Patterns and Problems (5)

A systematic survey of multi-national states and their current political and socioeconomic situations. The concept of ethnicity and its correlates. Conceptual bases of ethnic integration, assimilation, and stratification. The macro and micro-scales: country, region, city, neighborhood. The consequences of modernization and economic development.

**INR 4033 International Communication** (5) The course will explore language as the medium of national and international communication; the multiple and often conflicting roles of language as unifier and isolator of political and social entities.

**INR 4044 World Population Problems** (5) Analysis of problems of population growth, economic development, and food supply. The impact of population growth upon the world political system. The Green Revolution and its implications. Environmental consequences of population growth. Prerequisite: INR 3043.

# INR 4054 World Resources and World Order

An examination of the impact of the quantity and distribution of the world's resources upon the relations between nations. The availability of mineral resources and food, in particular, will receive attention; and an assessment will be made of the international economic and political implications deriving therefrom.

**INR 4245** Caribbean Regional Relations (5) An examination of the forces and institutions which contribute to or inhibit cooperation and integration in the Caribbean. Prerequisites: INR 3246, CPO 3323, ECS 4432, or ECS 4433.

# INR 4261 Science, Technology and

International Relations (5) A study of the importance and relevance of science and technology to our understanding of international relations. Emphasis will be placed on national scientific policies of major countries, their implication on the international community and the major national and international agencies, organizations, treaties, and programs.

## INR 4283 International Relations, Development, and the Third World

An examination of the impact of the theory and practice of development and the relations between nations, with particular emphasis on the Third World. Attention given to the role of international political and economic organizations in the development process.

#### INR 4404 International Protection of Human Rights (5)

Development of the concern of the international community with the rights of individuals and groups and the institutional mechanisms which have been set up for their protection.

**INR 4408 Topics in International Law** (5) An intensive examination of selected topics in international law and relations among nations. Topics will vary according to the interests of the instructor and the students.

# INR 4417 International Relations and

International Law (5) World order and international relations. Current trends in the theory and practice of international law. Progressive development of international law through international institutions, in such matters as intervention, use of force, human rights, and the law of the sea.

### INR 4605 Approaches to International Relations

Analysis and conceptualization of the forces and conditions which influence relations among nations. Emphasis is on the provision of an analytical basis for the study of international relations. Prerequisite: INR 3003 or permission of instructor.

INR	4905	Independent	Study	(VAR)
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Varies according to the instructor.

### INR 4949 Cooperative Education in Social Sciences (5)

A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

INR 5906 Independent Study (VAR)

**INR 5935 Topics in International Relations (5)** Varies according to the instructor.

### INR 6605 Contemporary International System

Study of International Relations theory supplemented with a consideration of legal institutional and developmental issues. Prerequisite for MIB students: INR 6603 (World Politics)

**POS 4692** Law and the Process of Change (5) An exploration of the role of law and legal institutions in the process of modernization, with particular emphasis on developing countries.

### PUP 3206 International Law and the Environment

Environment (5) Introduction to the growing body of international laws on environmental issues, with special emphasis on important cases. Recent attempts to coordinate and regulate activities affecting the global environment, with particular attention to the U.N. Environmental Agency.

# Liberal Studies

# Liberal Studies Major

## Martin L. Tracev, Director of Liberal Studies and Associate Professor of Biological Sciences

The purpose of the Liberal Studies Program is to expose the student to the broadest possible range of courses offered in the College, while at the same time granting the opportunity to pursue an individualized program of studies under the Liberal Studies guidelines. These guidelines include six categories of courses: (1) Foundations of Liberal Studies. two courses (of five hours each), to be taken by Liberal Studies students as early in their work as possible: (2) Interdisciplinary Colloquia, two courses (of five hours each) involving faculty from several departments of the College and dealing with topics which cut across disciplinary lines; (3) Scientific Analysis, two courses (of five hours each) which expose the student to the scientific method and its application to problems in biology. physics. chemistry, earth science, experimental psychology, and environmental science; (4) Humanistic Analysis, two courses (of five hours each) which deal with the analysis of literary and historical texts or works of art and music; (5) Social Analysis, two courses (of five hours each) which expose the student to the basic theories and methods of social scientists in the fields of political science, economics, social psychology, sociology, anthropology, and social-science-oriented history; (6) Artistic Creation. one five-hour course in studio art or music, creative writing, or theater, which allows the student to experiment with her or his own creativity and to experience the work of the artist

Students are free to choose any combination of courses within these guidelines. Under the advisement of the Director of Liberal Studies, the student will be encouraged to pursue an individualized and focused program.

A grade of "C" or better in all courses required for the major is necessary for graduation.

LOCATION: Tamiami Campus only DEGREE: Bachelor of Arts LOWER DIVISION PREPARATION:

Required Courses: none.

Recommended Courses: Arts and Sciences concentration recommended.

### UPPER DIVISION PROGRAM:

**Ouarter** Hours

Major:		
Required courses:	5	55
Courses offered by any of the		
units of the College of Arts		
and Sciences, chosen in		
accordance with academic		
guidelines of the Program of		
Liberal Studies, to meet		
requirements in the four		
following areas:		
Scientific Analysis 1	0	
Humanistic Analysis l	0	
Social Analysis 1	0	
Artistic Creation	5	
Interdisciplinary Colloquia		
offered by the Liberal		
Studies Program 1	0	
Foundations of Liberal		
Studies 1	0	
Electives:		35

### Electives:

Limitations: If the student wishes to obtain a second major concurrently. no more than fifteen credit hours taken to meet the requirements of the other major may be counted towards the requirements of Liberal Studies. If she/he wishes to obtain a minor concurrently, no more than ten credit hours taken to meet the requirements of the minor may be counted towards the requirements of Liberal Studies. Additionally, no student is allowed to take more than 30 hours in one discipline.

# Course Descriptions

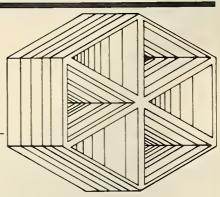
### Definition of Prefixes

IDS-Interdisciplinary Studies

IDS 3930 Foundations of Liberal Studies (5) This will be a broad synthesis of knowledge and methods in the Arts and Sciences, taught from the perspective of different disciplines. Specific topics will be announced in advance.

### IDS 3949 Cooperative Education in Liberal Studies

A student majoring in Liberal Studies may spend several quarters fully employed in industry in a capacity relating to the major.



#### IDS 4905 Independent Study (VAR)

Cross-disciplinary topics for individual study and research to be chosen by External Degree students in consultation with their faculty advi-SOTS.

IDS 4920 Liberal Studies Colloquia (5)Individual sections will study, from an interdisciplinary perspective. issues selected and presented jointly by college faculty. Specific topics will be announced in advance.

#### **IDS 4949 Cooperative Education in Liberal** Studies (5)

A student majoring in Liberal Studies may spend several quarters fully employed in industry in a capacity relating to the major.

# Mathematical Sciences

Samuel S. Shapiro, Professor and Chairperson Robert C. Fisher. Professor Malcolm H. Gotterer, Professor Toby S. Berk, Associate Professor John C. Comfort, Associate Professor Gauri L. Ghai, Associate Professor William T. Kraynek, Associate Professor Richard L. Ruhin, Associate Professor Anthony C. Shershin, Associate Professor James F. Slifker, Associate Professor Willie E. Williams, Associate Professor Carlos W. Brain, Assistant Professor Paulette Johnson, Assistant Professor Arie Kaufman, Assistant Professor Geoffrey E. McKenty, Assistant Professor Jainendra K. Navlakha. Assistant Professor Ralph P. Romanelli, Assistant Professor Thomas A. Whitehurst, Assistant Professor Domitila Fox, Instructor Carol D. Henley, Instructor Ina Parks Howell, Instructor Orlando Sauleda, Instructor Michael C. Stinson, Instructor Matrid H. Whidden, Instructor

# **Mathematical Sciences** -Statistics

# LOCATION: Tamiami Campus Only DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

*Required Courses:* Calculus including multivariable calculus; introductory course in computer programming; linear algebra; differential equations.

Remarks: If an entering mathematics major student has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a non-major elective. The equivalent courses are: MAC 3411-MAC 3412-MAC 3413 (Calculus); COP 3112 (Programming); MAS 3103 (Linear Algebra); and MAP 3302 (Differential Equations). UPPER DIVISION PROGRAM:

Major:

Quarter Hours

2 million		
Required Courses:		4
MAS 4301 Algebraic Structures	5	
MAA 4211-MAA 4212 Advanced		
Calculus	10	
At least one of the following two term		
sequences:		
STA 3321-STA 3322 Introduction to		
Mathematical Statistics	10	
MAP 4401-MAP 4402 Mathematical		
Methods in the Physical Sciences	10	
MAP 3103-MAP 3104 Mathematical		
Models and Applications	10	
MAS 4301-MAS 4302 Algebraic		
Structures	10	
STA 5446-STA 5447 Probability		
Theory	10	
Additional Mathematical		
Sciences courses 20 or	25	
Electives:		4
		9

*Remarks:* (1) If STA 3321-STA 3322 is not completed, STA 3163 must be taken as a nonmajor elective. (2) The student *must* consult his or her advisor at the University to determine which Mathematical Science courses, in addition to required courses specified above, satisfy the requirements for a mathematics major. (3) The student whose interests are more directly in statistics or computer science should consult those programs of study below. *Minor in Mathematics* 

Qu	arter Hours
Required Courses:	35
MAC 3411, MAC 3412, MAS 34	13
Calculus I, II, III (unless	
previously taken)	15

Mathematics courses approved for the Mathematics Major program

35

20

*Remarks:* No mathematical sciences courses can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a mathematical sciences course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

A grade of "C" or better in all courses required for the major is necessary for graduation.

# Statistics

LOCATION: Tamiami Campus Only

DEGREE: Bachelor of Science

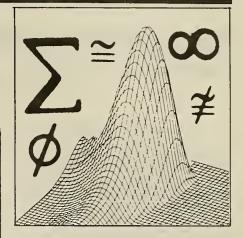
LOWER DIVISION PREPARATION:

*Required Courses:* Calculus including multivariable calculus; introductory course in computer programming and linear algebra.

Remarks: If an entering statistics major student has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a non-major elective. The equivalent courses are: MAC 3411, MAC 3412, MAC 3413 (Calculus); COP 3112 (Programming); MAS 3103 (Linear Algebra). UPPER DIVISION PROGRAM: Major:

		Quarter Hours
Required Con	urses:	45
STA 3321	Introduction to	
	Mathematical	
	Statistics I	5
STA 3322	Introduction to	
	Mathematical	
	Statistics II	5
STA 3163	Statistical	
	Methods 1	5
STA 3164	Statistical	
	Methods II	5
Additional M	<b>fathematical</b> Science	eś
courses with	at least 15 hours in	
statistical con	urses	25
Electives:		45
		00
		90

*Remarks:* Statistics courses are listed under mathematical sciences. The student must consult his or her advisor at the University to determine which courses, in addition to the required courses listed above, satisfy the requirements for a statistics major.



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Minor in Statistics

Quarte	r Hours
Required Courses:	20
STA 3321 & STA 3322 Introduction to	
Mathematical Statistics	
1 and 11	10
STA 3163 & STA 3164 Statistical	
Methods 1 and 11	10
	20

*Remarks:* No Mathematical Sciences courses can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a Mathematical Sciences course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

A grade of "C" or better in all courses required for the major is necessary for graduation.

# **Computer Science**

LOCATION: Tamiami and North Miami Campuses

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

As part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements:

*Required Courses:* Computer Programming in assembly language, COBOL, and in some other high level language.

Students entering without having met this lower division requirement (and without an equivalent background) are required to take some or all of the following courses as nonmajor electives:

Introduction to Computer Programming: COP 3112

Assembly Language Programming: COP 3402

COBOL and Data Processing: COP 3122

Recommended Courses: College Algebra Student who have not taken College Algebra should elect MAC 3132 (Pre-calculus Mathematics) as their first mathematics course at FIU.

#### 26 A & S

# **College of Arts and Sciences**

# **Mathematical Sciences Computer Science**

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# UPPER DIVISION PROGRAM: Major:

	Qua	rter Hours
Required Cou	rses:	
MAC 3233	A Short Course	
	in Calculus or	5
MAC 3411	Calculus I & II	10
&		
MAC 3412		
STA 3161	Introduction	
	to Statistical	
	Analysis or	5
STA 3163	Statistical	
	Methods 1	5
MAD 3104	Discrete Mathematics	5 5
COP 3522	Programming	
	Methodology	5
COP 3530	Data Structures	5
CDA 4101	Structured Computer	
	Organization	5
COP 4610	Operating Systems	
	Principles	5
Plus one cour	se from each of the foll	owing two
lists:		
List (1)		
MAD 3305	Graph Theory	
MAD 3401	Numerical Analysis	

MAD 3401	Numerical Analysis	
MHF 4302	Mathematical Logic	
COT 4320	Theory of Computations	
List (2)		
CDA 3040	Computer Hardware	
	Fundamentals	
CDA 4163	Data Communications	
CDA 4171	Minicomputer	
	Architecture and	
	Applications	
CAP 4721	Computer Graphics	
COP 5540	Data Base and File	
	Organization	
COP 5640	Programming Systems	
Electives:		45
	-	90

Remarks: The student must consult his advisor at FIU concerning those Mathematical Sciences courses which can be used to satisfy the requirements for a Computer Science Major.

Minor:	
Quarte	r Hours
Required Courses:	25
COP 3112;* COP 3402;*	
Introduction to Computers I & 11	10
COP 3522 Programming	
Methodology	5
and	
COP 3122 Data Processing &	
COBOL	5

lective: One other course in Computer
Science at the 3000 or 4000 level
cceptable for the major program

\*This course may be replaced by equivalent lower division course work. However, a minimum of 20 quarter hours must be taken in computer science at the University, and must be selected from those courses approved for the computer science major program.

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Remarks: No Mathematical Sciences courses can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a Mathematical Sciences course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

A grade of "C" or better in all courses required for the major is necessary for graduation.

# Mathematical Sciences

LOCATION: Tamiami Campus Only

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Calculus including mutivariable calculus; introductory courses in computer programming and assembly language; linear algebra; differential equations.

Remarks: If an entering major student has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a non-major elective. The equivalent courses are MAC 3411, MAC 3412, MAC 3413 (calculus); COP 3112, COP 3402 (introductory programming and assembly language); MAS 3103 (Linear Algebra); and MAP 3302 (Differential Equations). UPPER DIVISION PROGRAM:

Major:

	Quarter Hours
Required Courses:	45
STA 3163-STA 3164 S	tatistical
Methods 1 and 11	10
MAP 3103-MAP 3104	Mathematical
Models and Applicat	ions 10
MAD 3401 Numerica	al Analysis 5
MAD 3104 Discrete	Mathematics 5
COP 3530 Data Str	uctures 5
MAP 4401-MAP 4402	Mathematical
Methods in Physical	Sciences 10
or	
MAA 4211-MAA 4212	2 Advanced
Calculus	10
Electives:	45
	90

Minor in Mathematical Sciences Required Courses: MAC 3411, MAC 3412, MAC 3413 Calculus I, II, & III 15 (Unless taken previously); and 20 credit hours of Mathematical Sciences Courses that have been approved for the Mathematics Major program 20 35

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Remarks: No Mathematical Sciences courses can be applied to more than one minor, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a Mathematical Science course is required for a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

A grade of "C" or better in all courses required for the major is necessary for graduation.

# Mathematical Sciences

LOCATION: Tamiami Campus Only

DEGREE: Master of Science in Mathematical Sciences

The Master's program in Mathematical Sciences consists of a total of 45 quarter hours of coursework. All students will be required to take the following:

	Quarter	r Hours
MAP 5117	Mathematical and	5
	Statistical Modeling	
COP 5540	Data Base and File	5
	Organization	
STA 5206	Design of Experiments	5
STA 5606	Mathematical	5
	Techniques of	
	Operations Research	
MAP 6127	Simulation and	5
	Modeling	
	U	

An additional 15 hours must be chosen from approved courses in at least two of the three areas of Computer Science, Mathematics and Statistics. For the final 5 hours, the student will be required to apply the techniques developed in his or her program of studies to the solution of a practical problem. The 40 hours of coursework must be completed with a "B" average or higher and a grade of "C" or higher in each course. A grade of credit (CR) is required for the research project.

(Continued)

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# **Mathematical Sciences**

rerequisites for the program consist of the foi-			
owing FIU courses (or their equivalents):			
COP 3112 Introduction to Computers 1			
(Fortran)			
COP 3402 Introduction to Computers II			
(Assembly Language)			
COP 3530 Data Structures			
MAC 3411 & MAC 3412 & MAC 3413			
Calculus and Multivariable			
Calculus			
MAS 3103 Linear Algebra			
STA 3321 & STA 3322 Mathematical			
Statistics; or			
STA 3163 & STA 3164 Statistical			
Methods I and II			
In addition to these prerequisites a student			

In addition to these prerequisites a student must hold a Bachelor's degree from an accredited university or college; must have received a "B" average or better in all coursework taken as an upper division student for the Bachelor's degree, and achieved a combined score of 1000 or higher on the Graduate Record Exam (including at least 650 on the quantitative portion); and must have approval of the departmental Graduate Committee.

# **Course Descriptions**

## **Definition of Prefixes**

CAP-Computer Applications; CDA-Computer Design/Architecture; CIS-Computer Information Systems; COC-Computer Concepts; COP-Computer Programming; COT-Computing Theory; HES-Applied Health; MAA-Mathematics, Analysis; MAC-Mathematics, Calculus and Pre-Calculus; MAD-Mathematics, Discrete; MAE-Mathematics Education; MAP-Mathematics, Applied; MAS-Mathematics, Algebraic Structures; MAT-Mathematics, General; MGF-Mathematics, General and Finite; MHF-Mathemat-History & Foundations; MTGics. Mathematics, Topology and Geometry; STA-Statistics.

**CAP 4721 Computer Graphics** (5)(F–S) The principles and techniques of interactive computer graphics. Characteristics of graphical devices; representation and manipulation of graphical data, light pens, and other graphical input devices; data structures for interactive graphics: graphical languages; applications of computer graphics. Prerequisites: MAC 3233, COP 3530 and CDA 4101.

### CDA 3040/ETE 3650 Computer Hardware Fundamentals (5)(W-SS)

This course concentrates on two major areas. The first considers computer number systems, logic gates and Boolean algebra. The second treats the arithmetic element, computer memories, input-output, and computer organization. Emphasis is placed on the latter topics. Prerequisite: MAD 3104.

# **CDA 4101 Structured Computer**

Organization (5)(F-W-S)This course investigates the analysis of the levels of organization of computer systems, including the conventional, microprogramming and operating systems levels. A number of major computer systems are analyzed, Prerequisite: COP 3402, or equivalent.

## CDA 4163 Data Communications (5)(F)

Study of communications-based systems, common carrier facilities, tariffs, and related equipment. Analysis and design of communications networks utilizing various techniques. Uses of communications for data collection, remote computing, message switching. Prerequisite: CDA 4101.

## CDA 4171 Minicomputer Architecture and

Applications (5)(W–SS) An introduction to minicomputers, in which students will have direct access to a general purpose minicomputer system. Study of the architecture of a particular minicomputer (including hands-on experience) followed by a comparison study of other minicomputer systems. Selected minicomputer applications in business, industry and science. Prerequisites: CDA 4101.

### CIS 3905 Independent Study

(VAR)(F-W-S-SS) Individual conferences, assigned readings, and reports on independent investigations.

CIS 3932 Special Topics (VAR)(F-W-S-SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

# CIS 4905 Independent Study

(VAR)(F-W-S-SS) Individual conferences, assigned readings, and reports on independent investigations.

CIA 4932 Special Topics (VAR)(F-W-S-SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

# CIS 5908 Independent Study

(VAR)(F-W-S-SS) Individual conferences, assigned readings, and reports on independent investigations.

CIS 5934 Special Topics (VAR)(F-W-S-SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

COC 3300 Introduction to Computers and Computer Applications (5)(W-SS) A survey of computers and their applications: hardware, software, computer systems operation, advanced computer systems, acquiring and using computer power, systems analysis, computer impact on society. Not acceptable for credit to mathematical science majors (mathematics, computer science, statistics).

COC 3400 Computers and Society (5)(S)A course for the citizen who is interested in the effects of computers upon our society. The major focus will be upon social, political and ethical considerations: what computers are and how they work; applications, such as data banks, government uses, simulation; considerations such as privacy and the police state, the cashless society, computers and business, computers and the quality of life, systems analysis and the planned society. The course is oriented toward the non-scientist and requires no background in mathematics, computer science, or social science. As part of the course, students will learn to write and run a simple computer program.

# COP 3112 Introduction to Computers I

(5)(F - W - S - SS)

A course in the fundamentals of digital computer programming. The concept of an algorithm; flow charting; programming; testing and debugging. Numerical and non-numerical techniques. The syntax and semantics of FOR-TRAN IV.

# COP 3120 Introduction to COBOL

**Programming** (5)(F-W-S) Introduction to the basic notions of computer programming, with emphasis on data process applications. The syntax and semantics of basic COBOL are examined. Concepts in file organization and techniques for processing are introduced. Not acceptable for credit to computer science majors.

## COP 3122 Data Processing and COBOL

## (5)(F-S)

A second course in programming, oriented toward data processing applications. Various techniques for organizing and processing files: sequential random-access, indexed and inverted files. File sorting and maintenance. Program documentation. Instruction in the COBOL programming language. Applications of computers and data processing in business. Prerequisite: COP 3170 or COP 3112.

## COP 3170 Introduction to Computer

**Programming** (3)(F-W-S-SS) An introduction to the BASIC computer language and to the use of the interactive and batch facilities of the computer. Not acceptable for credit to computer science majors.

# **Mathematical Sciences**

## COP 3172 Basic Programming for Business (5)(F-W-S-SS)

Introduction to the BASIC computer language with emphasis on business data processing applications. Using the interactive and batch facilities of the machine, concepts on file organization and techniques for processing are examined. Prerequisites: None. Not acceptable for credit to computer science majors.

#### COP 3402 Introduction to Computers II (5)(F-W-S-SS)

Principles and techniques of digital computers, with emphasis on machine language and assembly language programming. Internal representation of numeric and non-numeric information; registers, indexing and computer structure; arithmetic, logical and input-output instructions; fixed and floating arithmetic. Prerequisite: COP 3112 or equivalent.

# COP 3404 Computer Assembly Language

(2)(F-S) Assembly language for the UNIVAC 1100 series; instruction set, register usage, internal data representation, assembler pseudo-operations, PROC's. Basic elements of EXEC-8. Prerequisites: Course in assembly language for a computer other than UNIVAC 1106; demonstration of adequate knowledge of assembly language for a computer other than UNIVAC 1108.

### COP 3522 Programming Methodology

(5)(F-S)

This course covers BNF, structuring of programs, program documentation, debugging and testing, top down design, and a project for practical experience in these techniques. Programming in a high level language. Prerequisite: COP 3402 or equivalent.

COP 3530 Data Structures (5)(W-S-SS) Basic concepts of data organization and associated techniques. Arrays, stacks, singly and multiply linked lists, binary and n-ary trees, graphs. Both internal and external storage structures. Accessing, searching and sorting. Recursive and non-recursive processing. Dynamic allocation and garbage collection. Prerequisite: MAD 3104 and COP 3522.

### COP 4610 Operating Systems Principles (5)(W-S-SS)

A study of the basic principles of modern multi-programming and time-sharing systems. Interrupts and data channels, multiprocessor system, memory management, virtual memory,

segmentation, process communication, deadlock and interlock handling. Prerequisites COP 3530 and CDA 4101.

### COP 5540 Data Base and File Organization

This course deals with the need for formal data organization; system requirements; effects of storage; devices; file attributes; file organization; search strategies; privacy and security. Prerequisites: COP 3530 and CDA 4101.

(5)(W-S)

COP 5640 Programming Systems (5)(S or SS) Assemblers; loaders; MACRO systems; basic techniques of compilation; self-compilers; syntax encoding and recognition; code generation and optimization. Prerequisites: COP 3522, MAD 3104 and COP 3530.

# COP 6555 Survey of Programming

Languages (5)(F) This course consists of a comparative study of programming languages including LISP (or SNOBOL-4), PASCAL, APL, PL/1 (or AL-GOL-60) and ALGOL-68. Emphasis is given to different data structures available, prominent features of the language and their applications. Some criteria to compare different languages are discussed and a few languages are compared as examples. Prerequisites: COP 3522 and COP 3530.

COT 4320 Theory of Computations (5)(S) An introduction to abstract machine theory, combinatorial systems, and computable functions. Topics include: finite-state machines, regular sets, Turing machines, the halting problem, phrase-structure grammars and languages, and Post's correspondence problem. Emphasis is on surveying basic topics and developing an intuitive understanding of the theory of computation. Prerequisite: MAD 3104.

### HCA 4711/STA 4161 Statistical Applications in Health Care (5)(W)

A course in descriptive and inferential statistics for the Health Services. Topics include probability distributions, point and interval estimation, hypothesis testing, regression and correlation and contingency table analysis. Prerequisite: STA 3013 or equivalent college mathematics course.

### HCA 5711/STA 5127 Statistical Methods for Health Services (3)(F)

This course presents tools for the analysis of data that arise in the health professions. Specific topics include: probability concepts, poisson distribution, nonparametric techniques, sample size determination, analysis of variance and advanced regression techniques. Students will be taught the use of a computerized statistical analysis package. Prerequisite: HCA 4711 or introductory upper division college statistics course.

#### MAA 4211-MAA 4212 Advanced Calculus I & II (1

Calculus I & II (5-5)(W-S) An intensive study of the basic ideas of calculus. Topics may include: the real number system, continuity, differentiation, Riemann-Stieltjes integration, infinite series, series of functions, Fourier series, functions of several variables. Prerequisites: MAC 3413 and MAS 3103.

MAA 4402 Complex Variables (5)(SS) An introduction to complex variables, beginning with the algebra and geometry of the complex number system. Topics include: complex functions; analytic functions; Cauchy's theorem and its consequences; Taylor and Laurent series; residue calculus; evaluation of real integrals and summation of series; conformal mapping. Prerequisite: MAC 3413, and MAP 3302 or MAA 4211.

# MAC 3132 Pre-calculus Mathematics

(5)(F-W-S-SS) Topics to be covered include: functions, exponential and logarithmic functions, trigonometry and the basics of analytic geometry. Prerequisites: Two years of high school algebra.

# MAC 3233 A Short Course in

### Calculus

(5)(F-S)

A one quarter introduction to the basic notions of calculus. Specific topics include: Differential calculus using polynomial, exponential and logarithmic functions, and its application to optimization; integral calculus with area and probability applications. Prerequisites: MAC 3132 or working knowledge of algebra.

## MAC 3411-MAC 3412 Calculus I & II (5-5)(F-W-S-SS)

An introduction to basic concepts, computations, and applications in calculus. The first course deals with basic concepts, techniques and applications of the derivative, and an introduction to the integral. The second course deals with integration techniques and applications of the integral, an introduction to multivariable calculus, infinite series, and Taylor series. Prerequisite: Trigonometry or MAC 3132.

# MAC 3413 Multivariable Calculus

(5)(F - W - S)

This course deals with the differential and integral calculus of real valued multivariable functions. The topics include: directional and partial derivatives, gradients, and their applications; differential calculus of vector valued functions; multiple, iterated, line, and surface integrals. Prerequisite: MAC 3412 (or equivalent).

# **Mathematical Sciences**

# MAD 3104 Discrete Mathematics

(5)(F-W-S)

An introduction to abstract mathematical structures, with special emphasis on theories and methods which are relevant to the study of computer science. Topics include: introduction to formal systems and techniques of proof; combinatorial vs. relational structures; groups and graphs; Boolean algebras; abstract languages and machines. Prerequisite: COP 3112.

MAD 3305 Graph Theory (5)(W-SS) An introduction to the study of graphs. Topics include the following: paths and circuits, connectedness, trees, shortest paths, networks, planar graphs, the coloring of graphs and directed graphs. Applications of graphs to computer science will be discussed. Prerequisite: COP 3112.

MAD 3401 Numerical Analysis (5)(W-SS) Basic ideas and techniques of numerical analysis. Topics include: finite differences, interpolation, solution of equations, numerical integration and differentiation, applications, introduction to applied linear algebra. This course will make extensive laboratory use of the computer facility. Prerequisites: COP 3170, or COP 3112 and MAC 3412, or MAC 3233.

## MAE 4810-MAE 4811 Foundations of

Mathematics I & II (5-5)(F-W) An integrated course designed for teachers of elementary and early junior high students. Emphasis will be placed on inductive and rudimentary deductive approaches to number systems, algebra, geometry, probability, statistics, and mathematical systems. The relationship between these fields and their applications will be stressed. Intuitive aspects of synthetic, analytic and transformation geometry will serve to relate geometry, algebra and mathematical systems. Prerequisite: None.

# MAP 3103-MAP 3104 Mathematical Models and Applications I & II

# (5-5)(W-S)

A course to provide an understanding of the use of mathematical models in the description of the real world. In addition to considering basic principles in philosophy of formal model building, specific models will be considered, such as Markov Chain models, models for linear optimization, models involving stochastic processes, graphs and models, models for

growth processes, and ecological models. Evaluation of models will also be discussed. Prerequisites: MAS 3103 and MAC 3413, or MAP 3302. MAP 3302 Differential Equations (5)(F-S)An introduction to differential equations and their applications, based upon a knowledge of the calculus. Topics to include: initial value problems of the first order, numerical solutions, systems of differential equations, linear differential equations, Laplace transforms, series solutions. Prerequisite: MAC 3412.

#### MAP 4401-MAP 4402 Mathematical Methods in Physical Sciences 1 & 11 (5-5)(S-

1 & II (5-5)(S-SS) A study of those topics in mathematics most often applied in the physical sciences. A prerequisite knowledge of ordinary differential equations is required. Topics to be discussed include the following: solutions to ordinary differential equations about singular points; Fourier Analysis; Sturm-Liouville Problems; Bessel Functions; Legendre Polynomials; boundary value problems; Laplace equations; applications to problems in the physical sciences. Prerequisite: MAP 3302.

### MAP 5117 Mathematical and Statistical Modeling (2)

Modeling (5)(F) Topics to be covered include: regression models, forecasting and time series models, probability and various statistical models. Computer solutions of these models will be included. Prerequisites: MAC 3413, COP 3402, MAS 3103; and STA 3322 or STA 3164.

MAP 6127 Simulation and Modeling (5)(S) Two areas are covered in this course: advanced queueing models and simulation techniques. The relationships between these two areas, applications, and simulation languages will be among the topics covered. Prerequisite: STA 5606.

MAS 3103 Linear Algebra (5)(F-S) An introduction to the topics in linear algebra most often used in applications. Topics include: matrices and their applications; simultaneous linear equations and elementary operations; linear dependence; vector spaces; rank and inverses; inner products and "best" approximations; numerical solutions of simultaneous linear equations; eigenvalues and eigenvectors; iterative methods for 'calculating eigenvalues; and systems of linear equations. Prerequisite: MAC 3412.

### MAS 4301–MAS 4302 Algebraic Structures I & II (5–5)(F–W)

A course of study of abstract mathematical structures of modern algebra. The major emphasis in the first term is placed on the concept of a group. In the second term, rings and fields are studied, with applications to polynomials, number theory, geometry, and solvability of equations. Prerequisite: MAS 3103.

# MAS 5215 Number Theory

Topics to be discussed are selected from the following: congruences, Diophantine equations, distribution of primes, primitive roots, quadratic reciprocity and classical theorems of number theory.

# MAT 3905 Independent Study

(VAR)(F-W-S-SS)

(5)(SS)

Individual conferences, assigned readings, and reports on independent investigations.

### MAT 3930 Special Topics

### (VAR)(F-W-S-SS)

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

## MAT 3949 Cooperative Education in Mathematical Sciences

(VAR)(F-W-S-SS)

One quarter of full-time supervised work in an outside organization taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student.

# MAT 4905 Independent Study

# (VAR)(F-W-S-SS)

Individual conferences, assigned readings, and reports on independent investigations.

### MAT 4930 Special Topics

(VAR)(F-W-S-SS)

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

### MAT 4943 Mathematical Sciences Internship (VAR)(F-W-S-SS)

A special program to encourage students to get guided on-the-job experience in computer sciences, statistics, or mathematics in an industrial enterprise, governmental agency or other organization. Requirements: minimum grade of B or higher in all courses in the major area, and approval by Departmental Internship Committee. Application is required at least one term in advance of registration for this course.

# MAT 4949 Cooperative Education in Mathematical Sciences

(VAR)(F-W-S-SS)

One quarter of full-time supervised work in an outside organization taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student.

# **Mathematical Sciences**

## MAT 5907 Independent Study

(VAR)(F-W-S-SS)

Individual conferences, assigned reading, and reports on independent investigations.

## MGF 3113 The Significance of Mathematics (5)(W)

A course for non-science majors, directed toward students with little or no assumed background in mathematics. The objective is to convince the student that mathematics is fun, interesting and useful. Topics may include: logical reasoning, unsolved problems of arithmetic, probability and statistics. geometry. topology, computers, and History of Mathematics.

MHF 4302 Mathematical Logic (5)(W) A study of formal logical systems and their applications to the foundations of mathematics. Topics to be selected from the following: definition of mathematical proofs; set theory; analysis formalized with the predicate calculus; theorems of Godel and Church; recursive function theory; and idealized computers.

### MTG 3212 Geometry

(5)(W)

(5)(F)

A study of the basic structure of Euclidean geometry together with topics from advanced Euclidean geometry and non-Euclidean geometry. Prerequisite: High School geometry.

### MTG 4302 Topology

An introductory course in topology requiring a prerequisite knowledge of the calculus. Topics to be discussed will be selected from the following: topological spaces, metric spaces, continuity, completeness, compactness, separation axioms. products spaces, subspaces, convergence, and homotopy theory. Prerequisite: MAC 3413 and MAS 3103.

## STA 3013 Statistics for Social Services (5)(F-W-S-SS)

This is an elementary course in statistics, covering graphical and numerical condensation of data as well as the most basic parametric and non-parametric methods. Emphasis is placed on the interpretation of statistical results, rather than on ways to analyze experimental data.

# STA 3122-STA 3123 Introduction to Statistics I & II

(5-3)(F-W-S-SS)A course in descriptive and inferential statistics. Topics include: empirical and theoretical probability distributions; point and interval estimation; hypothesis testing; analysis of variance, regression, correlation, and basic nonparametric tests.

# STA 3132 Business Statistics

(5)(F - W - S - SS)

Starting with an introduction to probability, the course provides an introduction to statistical techniques used in management science. It includes descriptive statistics, probability distributions, estimation and testing of hypothesis.

# STA 3161 Introduction to Statistical Analysis (5)(W-SS)

A course in descriptive and inferential statistics. Topics include: probability distributions, point and interval estimation, hypothesis testing, regression and correlation, goodness of fit tests, contingency tables and analysis of variance. Prerequisite: A course in College algebra.

#### STA 3163-STA 3164 Statistical Methods (5-5)(F-W) 1&Ⅱ

This course presents tools for the analysis of data. Specific topics include: use of normal distribution, tests of means, variances and proportions; the analysis of variance and covariance (including contrasts and components of variance models), regression, correlation, sequential analysis and non-parameteric analysis. Prerequisites: College algebra or first course in statistics.

#### (5)(S)STA 3182 Statistical Models

This is a specialized course in the use of statistical models to represent physical and social phenomena. The emphasis is on providing tools which will allow a researcher or analyst to gain some insight into phenomena being studied. An introductory knowledge of probability theory and random variables is assumed. Specific topics include: introduction to discrete and continuous probability distributions, transformation of variables, approximation of data by empirical distributions, central limit theorem, propagation of moments, Monte Carlo simulation, probability plotting, testing distributional assumptions. Prerequisites: MAC 3413, and first course in statistics.

### STA 3321-STA 3322 Introduction to Mathematical Statistics I & II (5-5)(W-S)

This course presents an introduction to the mathematics underlying the concepts of statistical analysis. It is based on a solid grounding in probability theory, and requires a knowledge of single and multivariable calculus. Specific topics include the following: basic probability concepts, random variables, probability densities, expectations, moment generating functions, sampling distributions. decision theory, estimation, hypothesis testing (parametric and non-parametric). regression, analysis of variance, and design of experiments. Prerequisite: MAC 3413.

# STA 3905 Independent Study

(VAR)(F-W-S-SS) Individual conferences, assigned readings, and reports on independent investigations.

# STA 3930 Special Topics

(VAR)(F-W-S-SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

# STA 4502 Practical Nonparametric

Statistics (5)(W or S) This course deals primarily with tests of hypotheses for situations where standard parametric procedures (t-test, F-test, etc.) cannot be applied. Topics include binomial, multinomial and Poisson tests, permutation test, sign test, Mann-Whitney U test, Wilcoxon signed rank test, rank correlation, contingency chisquare, Kruskal-Wallis one-way ANOVA by ranks, Friedman test and other non parametric tests. Prerequisite: First course in statistics.

# STA 4603-STA 4604 Mathematical **Techniques of Operations**

Research I & II (5-5)(S,SS)An introduction to those topics in mathematics associated with studies in operations research. Topics include the following: linear programming and related topics, dynamic programming, queuing theory, computer simulation, network analysis, inventory theory, decision theory, integer programming. Prerequisites: MAS 3103 and STA 3161 or STA 3322.

STA 4664 Statistical Quality Control (5)(SS) This course presents the simple but powerful statistical techniques employed by industry to improve product quality and to reduce the cost of scrap. The course includes the use and construction of control charts (Means, percentages, number defectives, ranges) and acceptance sampling plans (single and double). Standard sampling techniques such as MIL STD plans will be reviewed.

# STA 4905 Independent Study

(VAR)(F,W,S,SS)

Individual conferences, assigned readings, and reports on independent investigations.

# STA 5126/PSY 5206 Design of Experiments

in Psychological Research (4)(F)The following topics will be included as they relate to psychological research: A review of analysis of variance in randomized and blocked designs, pairwise and multiple comparison tests, and analysis of variance in factorial, nested, and split-plot experiments and analysis of covariance. Computer software packages will be used for some analyses. Prerequisites: STA 3122 and STA 3123 or equivalent.

# Modern Languages

STA 5206 Design of Experiments (5)(F) This is an applied course dealing with the design and analysis of experiments employed in scientific and industrial research. A knowledge of the basic fundamentals of hypothesis testing and analysis of variance is assumed. Topics include: multiple comparison tests, completely randomized design, randomized blocks, Latin Square and related designs, nested and factorial experiments. Prerequisite: STA 3322, or STA

## STA 5207 Topics in Design of Experiments (5)(W,S)

3164.

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-STA 5237 Regression Analysis I & II (5-5) (SS,F)

A comprehensive review of the role of linear models in statistics. Extensive use is made of matrix notation, and a prior course in linear algebra is imperative. The fundamental theorems underlying regression analysis and the analysis of variance will be covered. Such topics as the Gauss-Markov Theorem, generalized least squares, and estimation and testing of hypotheses will be covered. Prerequisites: STA 3322 and MAS 3103.

### STA 5446-STA 5447 Probability Theory I & II (5-5)(S,SS)

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 3413.

# STA 5606 Mathematical Techniques of

**Operations Research** (5)(W) 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. Corequisite: COP 3530.

STA 5676 Reliability Engineering 1 (5)(SS) The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 3322.

The course is designed for those interested in

using probability models such as Markov mat-

rices to analyze the reliability of systems. The

(5)(F)

STA 5677 Reliability Engineering II

# use of transition matrices to represent the state of repairable and non-repairable systems will be stressed. Series and parallel constructed systems will be covered. Topics such as the reliability and availability of systems, average down time, required repairmen pool sizes, and number and composition of spare parts pools will be covered. Prerequisites: MAS 3103, and STA 5676.

## STA 5707/PSY 5246 Multivariate Analysis in Applied Psychological Research (4)(W)

Review of linear algebra. Topics include multiple regression, one & two sample multivariate analysis, profile analysis, multivariate analysis of variance, principal component & factor analysis. Computer software packages will be used for some analyses. Prerequisites: STA 3122 and STA 3123 or equivalent. Linear algebra and STA 5126 recommended.

STA 5826 Stochastic Processes (5)(F) This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include: Markov Processes, queuing theory, renewal processes, birth and death processes, Poisson and Normal Processes. Applications to system reliability analysis, behavioral science, and natural sciences will be stressed. Prerequisite: STA 5447.

# STA 5906 Independent Study

(VAR)(F,W,S,SS)

Individual conferences, assigned reading, and reports on independent investigation.



# **Modern Language Majors**

R. Reinaldo Sanchez, Associate Professor, Acting Chairperson James Crosby, Professor Yvonne Guers-Villate, Professor Ramon Mendoza, Professor (North Miami Campus) Florence Yudin, Professor Frances Aid, Associate Professor Frederick Bouma, Associate Professor John Jensen, Associate Professor Maida Watson Espener, Assistant Professor Marcelle Welch, Assistant Professor Gene Leroy, Instructor

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Arts

# LOWER DIVISION PREPARATION:

*Required Courses:* four semesters of elementary and intermediate foreign language or equivalent proficiency. If these courses are not completed prior to entry to FIU, they will be required as part of the upper division program as nonmajor electives.

UPPER DIVISION PROGRAM:

	Quarter Hours
Required Courses:*	45
Foreign language	
Electives:*	45
	00

\*Students in the Teacher Preparation Program carry two majors: Modern Language and Modern Language Education. They must request admission to *both* programs. (Students interested in teacher certification refer to the School of Education, page 2.

REQUIREMENTS FOR ALL MODERN LANGUAGE MAJORS: All majors must have a designated faculty advisor, and all are required to take 45 credits in the department of Modern Languages, with a grade of "C" or better.

REQUIREMENTS FOR SPANISH MA-JORS: There is no fixed sequence of courses required (e.g. SPN 3420, SPN 3421, SPN 3422); but a major in Spanish is expected to demonstrate proficiency in the target language at the level of SPN 3420 or SPN 3421 before attempting other advanced courses. He must take a minimum of 10 credits in linguistics-of which 5 should be History of the Language or Intro-

# **Modern Languages**

duction to Linguistics-and a minimum of 10 credits in literature.

**REQUIREMENTS FOR FRENCH MAJORS:** The requirements for a major in French are: 3 or 4 literature courses; 1 civilization course; 1 linguistics course. The remaining credits should be taken in language courses, such as FRE 3201. FRE 3420, FRE 3421, FRE 3780, FRT 3800, FRT 3810-unless the student can demonstrate proficiency in these areas. A student is also generally expected to take an introductory course to literature such as FRW 3820 before registering for upper level literature courses.

REQUIREMENTS FOR OTHER LAN-GUAGE MAJORS: A major in a language other than Spanish or French may take only 30 credits in the major target language, but completion of at least three quarters of a second foreign language is recommended. There is no fixed sequence of courses required, and a student may enroll in any course offered for majors, provided he or she meets the course prerequisites.

# **Basic Language Instruction**

LOCATION: Tamiami and North Miami Campuses

The Department of Modern Languages offers five-quarter sequences of instruction in basic French. German. Hebrew, Italian, Portuguese and Spanish.

The courses in basic language instruction are designed primarily for persons wishing to acquire basic conversational ability in a foreign language; but they provide training in all four language skills: listening, speaking, reading, and writing. Students are advised to consult the Departmental course listing for specific sections of French, German, Hebrew, Italian, Portuguese, and Spanish. Contingent upon demand, the Department of Modern Languages will offer courses in other foreign languages.

# **Course Descriptions**

### **Definition of Prefixes**

ESL-English as a Second Language; FOL-Foreign Languages; FOT-Foreign Languages in Translation; FOW-Foreign Languages, Comparative Literature; FRE-French Language; FRT-French Literature in Translation; FRW-French Literature (Writings); GER-German Language; GET-German Literature in Translation; HEB-Hebrew; HUM-Humanities: ITA-Italian Language; ITT-Italian Literature in Translation; LIN-Linguistics: POR-Portuguese Language; POW-Portuguese Literature (Writings):PRT-Portuguese in Translation; SPN-Spanish Language; SPT-

Spanish Literature in Translation; SPW-Spanish Literature (Writings).

# ENGLISH AS A SECOND LANGUAGE

ESL 3361 English Grammar Review (VAR) Review and practice of English grammatical patterns: emphasis on oral communication.

ESL 4301 Advanced Oral English (VAR) Intensive practice in pronunciation, vocabulary and oral communication skills.

### FOREIGN LANGUAGE: GENERAL

FOL 3000 Elementary Foreign Language Conversation (VAR) Emphasis on oral skills. contemporary language and culture. Content oriented to students with specific professional or leisure interests. For languages not often taught. This course is not part of a series. No prerequisites.

FOL 3732 Romance Linguistics (5) The common and distinctive romance features. Survey of linguistic geography and internal/external influences.

FOL 3905 Independent Study (5)Project, field experience, readings, or apprenticeship.

FOL 3930 Special Topics (5) Readings and discussion of literary/linguistic topics to be determined by students and teacher.

#### FOL 3949 Cooperative Education in Modern Languages (5)

A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

FOL 3955 Foreign Study (15)Intermediate level. One quarter full-time credit in foreign residence and study. Individual cases will be evaluated for approval.

#### FOL 4013 Language Skills for Professional (VAR) Personnel

The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

FOL 4905	Independent Study	(VAR)
Project, fiel	d experience, readings	, or research.

FOL 4930 Special Topics Independent readings, research, or project.

FOL 4935 Senior Seminar (5) Topics and approach to be determined by students and instructor.

#### FOL 4949 Cooperative Education in Modern Languages (5)

A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

#### FOL 4958 Foreign Study: Advanced Language/Literature

(I5)Full-quarter credit for foreign residence and study/work. (Approval of Department required).

FOL 5735 Romance Linguistics (5)The common and distinctive romance features. Survey of linguistic geography and internal/external influences.

FOL 5906 Independent Study (VAR) Project, field experience, readings, or research.

FOT 3110 Literature in Translation (5)Masterpieces of world literature in English. Comparative use of the original text. Discussion and interpretation.

FOT 3800 Translation Skills (5) Emphasis on basic principles and practice application.

FOT 3810 Creative Writing/Translation (5)Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.

### FOT 4130 European Literature in

Translation (5)For students proficient in more than one foreign language. Content and focus to be determined by student and teacher.

FOT 4801 Professional Translation (5) Techniques and resources for professional translation. Prerequisite: FOT 3800.

FOT 5131 Literature in Translation (5) Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5802 Translation Arts (5)Techniques of professional translation. Prerequisite; FOT 4801.

FOW 3520 Prose and Society (5) The dynamics of participation and alienation between prose writers and their environment.

FOW 3540 Bicultural Writings Experiment in linguistic pluralism. Content and focus to be determined by the international community.

(Continued)

(5)

and culture. Content oriented to students with

specific professional or leisure interests. This

course is not part of a series. No prerequisites.

# **Modern Languages**

FOW 3580 Intellectual History(5)The interaction or dissociation among writersin a critical historical period. Study of primarysources and their contemporary evaluations.FOW 3582 Literature of Reform(5)	FRE 3120 Beginning French Instruction 1 (5) Provides training in the acquisition and appli- cation of basic language skills. FRE 3121 Beginning French Instruction II (5) Provides training in the acquisition and appli-	FRE 3705 Applied Linguistics (5) Examination of available linguistic materials for self-instruction. Problem solving in syntax and phonetics, through the application of mod- ern/traditional methods.
The consciousness of change in verbal art. FOW 3584 Literature of Repression (5) The consciousness of constraints, their adop- tion and/or rejection in verbal art.	cation of basic language skills. <b>FRE 3122 Beginning French Instruction III (5)</b> Provides training in the acquisition and appli- cation of basic language skills.	FRE 3780 Phonetics(5)The application of phonetic theory and practicefor speech refinement. Study of sound patternsin communication and creative activity.
FOW 4390 Genre Studies (5) Examination of a single literary form (e.g. short story, poetry), or the study of interaction be- tween literary types (e.g. novel and drama).	FRE 3200 Intermediate French Instruction 1 (5)Provides training in the acquisition and application of basic language skills. Prerequisite:	FRE 3820 Dialectology(5)Definition and analysis. Problem-solving in dia- lect classification.(5)FRE 3840 History of the Language(5)
FOW 4590 Creative Modes (5) Discussion of a single mode or a plurality of ep- och styles such as classical/baroque, real-	One year of basic instruction. FRE 3201 Intermediate French Instruction II (5) Provides training in the acquisition and appli-	The internal and external history of language development. Examination of model texts from key periods of evolution. FRE 4013 Language Skills for Professional
ism/surrealism. The peculiar/common features of expressive media. FOW 4790 The Literary Generation (5) The real and apparent shared ideals of an artis- tic screating, its influence and range	cation of basic language skills. Prerequisite: One year of basic instruction. FRE 3270 Foreign Study (15) Intermediate level. One quarter full-time credit	Personnel (VAR) The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).
tic generation, its influence and range. FOW 4810 Problems in Reading and Interpretation (5) The identification and appreciation of tech- niques for sensitive reading and discussion of literary texts.	for foreign residence and study. Individual cases will be evaluated for approval. FRE 3415 Communication Arts (5) Oral interpretation and dramatic reading. Orig- inal and non-original texts will be the content	FRE 4470 Foreign Study: Advanced Language/Literature (15) Full-quarter credit for foreign residence and study/work. (Approval of Department re- quired.)
FOW 5395 Genre Studies (5) Examination of a single literary form (e.g. short story, poetry), or the study of interaction be- tween literary types (e.g. novel and drama).	of the course. Study of shared modes of experi- ence and their individual linguistic expression in an acquired language. FRE 3420 Review Grammar/Writing 1 (5) Practice in contemporary usage through se-	FRE 4501 Civilization II (5) Open to any student who understands the tar- get language. The making of a modern culture. The ideological, political and economic back- ground of contemporary culture.
FOW 5545 Bicultural Writings (5) Experiment in linguistic pluralism. Content and focus to be determined by the international community.	lected readings in culture and civilization. De- velopment of writing and speaking ability in extemporaneous contexts. The course will be	FRE 4562 Studies in Bilingualism (5) Readings and analysis of bilingual programs and binational goals.
FOW 5587 Comparative Studies (5) Cross-over and distinctiveness in a multi- language problem, period, or esthetic.	conducted exclusively in the target language. FRE 3421 Review Grammar/Writing II (5) Examination of grammatical theory; discussion of the medium array Breating in the discussion	FRE 4791 Contrastive Phonology (5) Contrasts in the sound systems of English and French.
FOW 5934 Special Topics in Language/Literature (5) Content and objectives to be determined by	of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and composition.	FRE 4800 Contrastive Morphology (5) Contrasts in the morphology and syntax of En- glish and French.
students and teacher. FOW 5938 Graduate Seminar (5) Topic and approach to be determined by stu-	FRE 3500 Civilization I (5) Open to any student who understands the tar- get language. The development of a particular	FRE 4935 Senior Seminar (5) Topic and approach to be determined by stu- dents and instructor.
dents and instructor. (Approval of the Depart- ment required.)	civilization. Emphasis on the evolution of a so- ciety, its ideas and its values.	FRE 5060 Language for Reading Knowledge (5) Designed primarily for graduate students who
FRENCH FRE 3000 Elementary French Conversation (VAR)	FRE 3700 Introduction to General Linguistics (5) Examination and synthesis of the concepts and perspectives of major contributions to language	wish to attain proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.
Emphasis on oral skills, contemporary language	theory.	FRE 5061 Language for Reading

#### Language for Reading Knowledge

(5)

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

# **Modern Languages**

FRE 5416 Communication Arts (5) FRW 3930 Special Topics (5)Readings and discussion of literary/linguistic Oral interpretation and dramatic reading. Original and non-original texts will be the content topics to be determined by students and inof the course. Study of shared modes of experistructor. ence and their individual linguistic expression FRW 4152 European Literature in in an acquired language. Translation (5)For students proficient in more than one for-FRE 5565 Studies in Bi-Lingualism (5)eign language. Content and focus to be deter-Readings and analysis of bi-lingual programs mined by students and instructor. (Conducted and binational goals. in French.) FRE 5730 Special Topics in Linguistics (5)Content to be determined by students and in-FRW 4390 Genre Studies structor. (Approval of Department required.) Examination of a single literary form (e.g. short story, poetry), or the study of interaction be-FRE 5908 Independent Study (VAR) tween literary types (e.g. novel and drama). Project, field experience, readings, or research. Instruction I FRW 4590 Creative Modes (5)FRT 3110 Literature in Translation (5)Discussion of a single mode or a plurality of ep-Masterpieces of French literature in English. och styles such as classical/baroque, realism/ Comparative use of the original text. Discussurrealism. The peculiar/common features of sion and interpretation. expressive media. FRT 3800 Translation Skills (5)FRW 4790 The Literary Generation (5)Emphasis on basic principles and practice ap-The real and apparent shared ideals of an artisplication. tic generation, its influence and range. FRT 3810 Creative Writing/Translation (5)FRW 4810 Problems in Reading and Training through non-structured writing. Ex-(5)Interpretation amination of various approaches to the The identification and appreciation of techproblems and objectives of creative translation. niques for sensitive reading and discussion of literary texts. FRT 4801 Professional Translation (5)Techniques and resources for professional FRW 4905 Independent Study (VAR) translation. Prerequisite: FRT 3810. Project, field experience, readings, or research. FRT 5118 Literature in Translation (5) FRW 4930 Special Topics (5) Masterpieces of world literature. Open to stu-Independent readings, research, or project. dents who are proficient in more than one lan-FRW 5150 Comparative Studies (5)guage. Cross-over and distinctiveness in a multi-FRT 5802 Translation Arts (5)language problem, period, or aesthetic. Techniques of professional translation. Prereq-FRW 5395 Genre Studies uisite: FRT 4801. (5)Examination of a single literary form (e.g. short FRW 3520 Prose and Society (5) story, poetry), or the study of interaction be-The dynamics of participation and alienation tween literary types (e.g. novel and drama). between prose writers and their environment. FRW 5934 Special Topics in Language/ FRW 3580 Intellectual History (5)Literature (5)The interaction or dissociation among writers Content and objectives to be determined by in a critical historical period. Study of primary student and instructor. sources and their contemporary evaluations. FRW 5938 Graduate Seminar (5) FRW 3582 Literature of Reform (5)Topic and approach to be determined by stu-The consciousness of change in verbal art. dents and instructor. (Approval of the Depart-HEBREW FRW 3584 Literature of Repression (5)ment required.) The consciousness of constraints, their adop-GERMAN tion and/or rejection in verbal art. GER 3000 Elementary German FRW 3820 Stylistics/Explication de Texte (5) Conversation (VAR) Close reading and analysis of prose and poetry. Emphasis on oral skills, contemporary language Introduction to the methods of literary critiand culture. Content oriented to students with cism. Selected readings in international sources.

FRW 3905 Independent Study (5)Project, field experience, readings, or apprenticeship.

specific professional or leisure interests. This course is not part of a series. No prerequisites.

### GER 3120 Beginning German Instruction I

(5)

Provides training in the acquisition and application of basic language skills.

# GER 3121 Beginning German

Instruction II (5)Provides training in the acquisition and application of basic language skills.

GER 3122 Beginning German

#### Instruction III (5)Provides training in the acquisition and application of basic language skills.

# GER 3200 Intermediate German

(5)

Provides training in the acquisition and application of basic language skills. Prerequisite: One year of basic instruction.

#### GER 3201 Intermediate German Instruction III

(5)Provides training in the acquisition and application of basic language skills. Prerequisite: One year of basic instruction.

GER 3420 Review Grammar/Writing 1 (5)Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

GER 4905 Independent Study (VAR) Project, field experience, readings, or research.

GER 4930 Special Topics (5)Independent readings, research, or project.

GER 5060 German for Reading Knowledge (5) 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 (5) Emphasis on translation of materials from the student's field of specialization. Prerequisite: GER 5060, or the equivalent.

GET 3100 Literature in Translation (5)Masterpieces in German literature in English. Comparative use of the original text. Discussion and interpretation.

## HEB 3000 Elementary Hebrew Conversation

(VAR)

Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

# **Modern Languages**

HEB 3110 Beginning Hebrew Instruction I (5) Provides training in the acquisition and appli- cation of basic language skills.	ITA 4930 Special Topics (5) Independent readings, research, or project.	specific professional or leisure interests. This course is not part of a series. No prerequisites.
<b>HEB 3111 Beginning Hebrew Instruction II (5)</b> Provides training in the acquisition and application of basic language skills.	ITT 3110 Literature in Translation (5) Masterpieces of Italian literature in English. Comparative use of the original text. Discus- sion and interpretation.	POR 3120 Beginning Portuguese Instruction I (5) Provides training in the acquisition and appli- cation of basic language skills.
HEB 3112 Beginning Hebrew Instruction III       (5)         Provides training in the acquisition and appli- cation of basic language skills.         HEB 3200 Intermediate Hebrew Instruction I       (5)	LINGUISTICS LIN 3010 Introduction to General Linguistics (5) Examination and synthesis of the concepts and perspectives of major contributions to language theory. (Conducted in English.)	POR 3121 Beginning Portuguese Instruction II       (5)         Provides training in the acquisition and application of basic language skills.         POR 3122 Beginning Portuguese Instruction III       (5)         Provides training in the acquisition and appli-
Provides training in the acquisition and appli- cation of basic language skills. Prerequisite: One year of basic instruction. HEB 3201 Intermediate Hebrew	LIN 3200 Phonetics (5) The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity.	cation of basic language skills. POR 3200 Intermediate Portuguese Instruction I (5)
Instruction II (5) Provides training in the acquisition and appli- cation of basic language skills. Prerequisite: One year of basic instruction.	LIN 3400 Applied Linguistics (5) Examination of available linguistic materials for self-instruction. Problem-solving in syntax	Provides training in the acquisition and appli- cation of basic language skills. Prerequisite: One year of basic instruction.
ITALIAN	and phonetics, through the application of mod- ern/traditional methods. (Conducted in En-	POR 3201 Intermediate Portuguese Instruction 11 (5) Provides training in the acquisition and appli-
ITA 3000 Elementary Italian Conversation(VAR)Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.ITA 3120 Beginning Italian Instruction 1(5)	glish.)       LIN 3610 Dialectology (5)         Definition and analysis. Problem-solving in dialect classification.         LIN 4226 Contrastive Phonology (5)         For students proficient in more than one foreign language. Choice of languages to be deter-	<ul> <li>POR 3420 Review Grammar/Writing I (5)</li> <li>Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be</li> </ul>
Provides training in the acquisition and appli- cation of basic language skills. ITA 3121 Beginning Italian Instruction II (5) Provides training in the acquisition and appli-	mined by students and instructor. LIN 4333 Contrastive Morphology (5) For students proficient in more than one for- eign language. Content and emphasis to be de- termined by students and instructor.	POW 4905 Independent Study       (VAR)         Project, field experience, readings, or research.         POW 4930 Special Topics       (5)
<ul> <li>cation of basic language skills.</li> <li>ITA 3122 Beginning Italian Instruction III (5)</li> <li>Provides training in the acquisition and application of basic language skills.</li> <li>ITA 3200 Intermediate Italian Instruction I (5)</li> <li>Provides training in the acquisition and appli-</li> </ul>	LIN 4418 Problems in Language Learning (5) Primarily designed for prospective teachers, but open to all interested students. The course will aim to devise approaches to difficulties com- monly experienced in syntax, usage, reading	Independent readings, research, or project. <b>PRT 3401 Literature in Translation</b> (5) Masterpieces of Portuguese literature in En- glish. Comparative use of the original text. Dis- cussion and interpretation.
cation of basic language skills. Prerequisite: One year of basic instruction. ITA 3201 Intermediate Italian Instruction II (5)	and comprehension. LIN 4620 Studies in Bilingualism (5) Readings and analysis of bilingual programs and binational goals.	SPANISH SPN 3000 Elementary Spanish Conversation (VAR) Emphasis on oral skills, contemporary language
Provides training in the acquisition and appli- cation of basic language skills. Prerequisite: One year of basic instruction.	LIN 5625 Studies in Bilingualism (5) Readings and analysis of bilingual programs and binational goals.	and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.
ITA 3420 Review Grammar/Writing I (5) Practice in contemporary usage through se- lected readings in culture and civilization. De- velopment of writing and speaking ability in	LIN 5934 Special Topics in Linguistics (5) Content to be determined by students and in- structor. (Approval of the Department re- quired.)	SPN 3120 Beginning Spanish Instruction I (5) Provides training in the acquisition and appli- cation of basic language skills. SPN 3121 Beginning Spanish Instruction II (5)
extemporaneous contexts. The course will be conducted exclusively in the target language.	PORTUGUESE	Provides training in the acquisition and appli- cation of basic language skills.

ITA 4905 Independent Study (VAR) Project, field experience, readings, or research.

### POR 3000 Elementary Portuguese Conversation

Conversation (VAR) Emphasis on oral skills, contemporary language and culture. Content oriented to students with

Introduction to the methods of literary criti-

cism. Selected readings in international sources.

(Continued)

# **Modern Languages**

SPN 3122 Beginning Spanish Instruction III       (5)         Provides training in the acquisition and application of basic language skills.       SPN 3200 Intermediate Spanish Instruction I       (5)         Provides training in the acquisition and application of basic language skills. Prerequisite: One year of basic instruction.       SPN 3201 Intermediate Spanish Instruction II       (5)         Provides training in the acquisition and application of basic language skills. Prerequisite: One year of basic instruction.       SPN 3270 Foreign Study       (15)         Intermediate level. One quarter full-time credit for foreign residence and study. Individual cases will be evaluated for approval.       (5)         SPN 3415 Communication Arts       (5)         Oral interpretation and dramatic reading. Orig- inal and non-original texts will be the content of the course. Study of shared modes of experi- ence and their individual linguistic expression in an acquired language.       (5)         SPN 3420 Review Grammar/Writing I       (5)         Practice in contemporary usage through se- lected readings in culture and civilization. De- velopment of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.         SPN 3421 Review Grammar/Writing II       (5)         Examination of grammatical theory; discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and composition.         SPN 3705 Applied Linguistic <t< td=""><td>SPN 3820 Dialectology       (5)         Definition and analysis. Problem-solving in dialect classification.         SPN 3840 History of the Language       (5)         The internal and external history of language development. Examination of model texts from key periods of evolution.       SPN 3905 Independent Study       (5)         Project, field experience, readings, or apprenticeship.       SPN 4013 Language Skills for Professional Personnel (VAR)         The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).       SPN 4470 Foreign Study: Advanced Language/Literature (15)         Full-quarter credit for foreign residence and study/work. (Approval of the Department required.)       SPN 4501 Civilization II (5)         SPN 4501 Civilization II (5)       Open to any student who understands the target language. The making of a modern culture. The ideological, political and economic background of contemporary culture.       SPN 4562 Studies in Bilingualism (5)         Readings and analysis of bilingual programs and binational goals.       SPN 4790 Contrastive Phonology (5)         Sontarsts in the morphology and syntax of English and Spanish.       SPN 4905 Independent Study (VAR)         Project, field experience, readings, or research.       SPN 4905 Independent Study (VAR)         Project, field experience, readings, or research.       SPN 4905 Independent Study (VAR)         Project, field experience, readings, or research.       SPN 4905 Independent Study (VAR)         <t< td=""><td>SPN 5416 Communication Arts       (5)         Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.         SPN 5565 Studies in Bilingualism       (5)         Readings and analysis of bilingual programs and binational goals.       SPN 5908 Independent Study       (VAR)         Project, field experience, readings, or research.       SPN 5930 Special Topics in Linguistics       (5)         Content to be determined by students and instructor. (Approval of the Department required.)       SPT 3110 Literature in Translation       (5)         Masterpieces of Hispanic literature in English.       Comparative use of the original text. Discussion and interpretation.       (5)         FT 3800 Translation Skills       (5)         Emphasis on basic principles and practice application.       (5)         SPT 4801 Professional Translation       (5)         Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.       (5)         SPT 5118 Literature in Translation       (5)         Masterpieces of world literature. Open to students who are proficient in more than one language.       (5)         SPT 5802 Translation Arts       (5)         Techniques of professional translation. Prerequisite: SPT 4801       (5)         SPW 3520</td></t<></td></t<>	SPN 3820 Dialectology       (5)         Definition and analysis. Problem-solving in dialect classification.         SPN 3840 History of the Language       (5)         The internal and external history of language development. Examination of model texts from key periods of evolution.       SPN 3905 Independent Study       (5)         Project, field experience, readings, or apprenticeship.       SPN 4013 Language Skills for Professional Personnel (VAR)         The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).       SPN 4470 Foreign Study: Advanced Language/Literature (15)         Full-quarter credit for foreign residence and study/work. (Approval of the Department required.)       SPN 4501 Civilization II (5)         SPN 4501 Civilization II (5)       Open to any student who understands the target language. The making of a modern culture. The ideological, political and economic background of contemporary culture.       SPN 4562 Studies in Bilingualism (5)         Readings and analysis of bilingual programs and binational goals.       SPN 4790 Contrastive Phonology (5)         Sontarsts in the morphology and syntax of English and Spanish.       SPN 4905 Independent Study (VAR)         Project, field experience, readings, or research.       SPN 4905 Independent Study (VAR)         Project, field experience, readings, or research.       SPN 4905 Independent Study (VAR)         Project, field experience, readings, or research.       SPN 4905 Independent Study (VAR) <t< td=""><td>SPN 5416 Communication Arts       (5)         Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.         SPN 5565 Studies in Bilingualism       (5)         Readings and analysis of bilingual programs and binational goals.       SPN 5908 Independent Study       (VAR)         Project, field experience, readings, or research.       SPN 5930 Special Topics in Linguistics       (5)         Content to be determined by students and instructor. (Approval of the Department required.)       SPT 3110 Literature in Translation       (5)         Masterpieces of Hispanic literature in English.       Comparative use of the original text. Discussion and interpretation.       (5)         FT 3800 Translation Skills       (5)         Emphasis on basic principles and practice application.       (5)         SPT 4801 Professional Translation       (5)         Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.       (5)         SPT 5118 Literature in Translation       (5)         Masterpieces of world literature. Open to students who are proficient in more than one language.       (5)         SPT 5802 Translation Arts       (5)         Techniques of professional translation. Prerequisite: SPT 4801       (5)         SPW 3520</td></t<>	SPN 5416 Communication Arts       (5)         Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.         SPN 5565 Studies in Bilingualism       (5)         Readings and analysis of bilingual programs and binational goals.       SPN 5908 Independent Study       (VAR)         Project, field experience, readings, or research.       SPN 5930 Special Topics in Linguistics       (5)         Content to be determined by students and instructor. (Approval of the Department required.)       SPT 3110 Literature in Translation       (5)         Masterpieces of Hispanic literature in English.       Comparative use of the original text. Discussion and interpretation.       (5)         FT 3800 Translation Skills       (5)         Emphasis on basic principles and practice application.       (5)         SPT 4801 Professional Translation       (5)         Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.       (5)         SPT 5118 Literature in Translation       (5)         Masterpieces of world literature. Open to students who are proficient in more than one language.       (5)         SPT 5802 Translation Arts       (5)         Techniques of professional translation. Prerequisite: SPT 4801       (5)         SPW 3520
Linguistics (5) Examination and synthesis of the concepts and perspectives of major contributions to language theory. (Conducted in Spanish.)	Emphasis on translation of materials from the student's field of specialization. Prerequisite: SPN 5060, or the equivalent.	The consciousness of constraints, their adop- tion and/or rejection in verbal art. SPW 3820 Stylistics (5) Close reading and analysis of prose and poetry.

# SPN 3780 Phonetics

(5) The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity.

(5)

(5)

(5)

(5)

# **Performing Arts**

# SPW 3930 Special Topics

Readings and discussion of literary/linguistic topics to be determined by students and instructor.

SPW 4152 European Literature in Translation For students proficient in more than one foreign language. Content and focus to be deter-

mined by students and instructor. (Conducted in Spanish.)

SPW 4390 Genre Studies (5)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 4590 Creative Modes (5)Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/ surrealism. The peculiar/common features of expressive media.

SPW 4790 The Literary Generation The real and apparent shared ideals of an artistic generation, its influence and range.

### SPW 4810 Problems in Reading and Interpretation

The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

SPW 4930 Special Topics (5) Independent readings, research, or project.

SPW 5155 Comparative Studies (5)Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

SPW 5391 Genre Studies 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 5934 Special Topics in Language/ Literature

Content and objectives to be determined by students and instructor.

SPW 5936 Graduate Seminar (5)Topic and approach to be determined by students and instructor. (Approval of the Department required.)

# **Music Major**

Philip H. Fink, Professor and Chairperson (Music)

Clair T. McElfresh, Professor (Music) **Yoshihiro Obata**, Associate Professor (Music) Joseph Rohm, Associate Professor (Music) Therald Todd, Associate Professor (Theater-

Program Director) Violet Vagramian, Associate Professor (Music) Judith Edwards, Assistant Professor (Theater) Marie Leeds, Assistant Professor (Music) Paul Mazer, Assistant Professor (Theater)

Music students at FIU come from a wide variety of academic backgrounds from both Florida and other states. Because of this diversity, the Faculty of Music gives three basic preliminary examinations in order to assist the student to eliminate any deficiencies:

- 1) Music History-consisting of all periods of history
- 2) Music Theory-consisting of melodic and harmonic dictation and written harmonization
- 3) Performance Skills-consisting of performing one or more solo works for the faculty during the first week of classes.

The preliminary examinations give the faculty an idea of a student's level of proficiency at entrance into the University, as well as give a frame of reference for the progress that should be made during the first quarter. Students whose level of achievement is not sufficiently advanced for accepted junior level placement will be advised how those deficiencies may be overcome.

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Music

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses: applied, 12 quarter hours; organizations, 6 quarter hours; theory, 18 quarter hours; sight-singing, 6 quarter hours.

Remark: The student who does not have an Associate of Arts degree, or lacks proficiency in theory, sight-singing, and performance in a major instrument will be expected to take more than 90 quarter hours of upper division work to complete the degree.

UPPER DIVISION PROGRAM: A grade of C or better in all courses required for the major is necessary for graduation.

# APPLIED MUSIC

Quarte	er Hour.
Required Courses:	6
Theory: MUT 4311, MUT 3416,	
MUT 3611	15
History: MUH 3211, MUH 3212,	
MUH 3372	15



Organizations (6 quarters)	12
Conducting	2
Applied (6 quarters)	12
Recital and Research and Directed	
Study	4
Electives:	30

# CONDUCTING

o o r i b o o r i r o		
Required Courses:		60
Theory	15	
History	15	
Organizations (6 quarters)	12	
Conducting	6*	
Applied (6 quarters)	12	
*The student is required to conduct a		
performing organization		
(approximately two numbers-not		
a complete program) during his or		
her senior year.		
Electives:		30
		90

# THEORY AND COMPOSITION

Quarter Hours

(Continued)

2		
Required Courses:		60
Theory	15	
Composition	10	
History	10	
Organizations (5 quarters)	10	
Conducting	2	
Applied (5 quarters or 5 hours		
applied and 5 hours composition		
lessons)	10	
Recital and Research and Directed		
Study*	3*	
*The student must perform an		
original composition with analysis,		
or lecture on a theoretical subject		
for the student body.		
Electives:		30
		90
		30

# MUSICOLOGY

Required Courses:	60
Theory	15
History	20
Organizations (5 quarters)	10
Conducting	2

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# **Performing Arts**

Applied (5 q Research*	uarters)	10 3*	
	t must lecture for the	2.	
	ody, as part of the		
	equirement.		30
Electives:			30
Directed Stu	dy based on specialized		
	usic history under		
	upervision-minimum	10	
	guage (reading		
	y) 2 quarters	10	
	es to be determined in		
consultatio	on with an advisor		10
			90
DUAL DEGR			
Required Music	Courses:		62
Theory		15	
History		15	
Organization	is (6 quarters)	12	
Conducting		4	
Applied (6 q	uarters)	12	
Research and Recital		2	
Guitar MVS	3116	2	
Required Educa		-	45
	Schooling in America	5	
EDG 3321	General Teaching Lab	2	
LDO 5521		5	
EDG 3322	1	5	
LOO 5522	General Teaching Lab	5	
RED 4325		5 5	
	Reading	5	
MUE 3332	Special Teaching Lab		
	Music 1	5	
MUE 4341	Special Teaching Lab		
	Music 11	5	
MUE 4940	Student Teaching	15	
		1	07
Stadamen inten	and in some has		

(Students interested in teacher certification refer to the School of Education, page 2.)

# **Course Descriptions**

### Definition of Prefixes

HUM-Humanities; MUC-Music: Composition; MUE-Music: Education: MUG-Music: Conducting; MUH-Music-History/Musicology; MUL-Music: Literature; MUM-Music: Commercial; MUN-Music: Ensembles; MUS -Music; MUT-Music: Theory; MVB-Applied Music-Brass; MVK-Applied Music-Keyboard: MVP-Applied Music-Percussions; MVS-Applied Music-Strings; MVV-Applied Music-Voice; MVW-Applied Music-Woodwinds.

MUC 4201 Music Composition I (5)A course designed to give the advanced student intensive experience in creative writing. Compositional techniques and devices will be studied, through an analysis of works by major composers. Prerequisite: Orchestration, or permission of instructor.

MUC 4202 Music Composition II (5)A continuation of Music Composition 1. The larger forms of music composition are analyzed and composed. Prerequisite: Music Composition l, or permission of instructor.

MUE 3140 Solfege (5)A course designed to strengthen and build the student's ability to write and perform melodic, harmonic and keyboard dictation. It will also provide a rhythm pattern sequence necessary to write and understand the modern idiom of score reading, analysis and transposition.

MUG 4101 Basic Conducting (2)A basic conducting course to gain fundamental technique and interpretation. A prerequisite for both advanced instruments and choral conducting.

MUG 4201 Choral Conducting (2)With a background in basic theory, and having performed in organizations, the student will develop techniques of group conducting including madrigal, glee, choir, etc. A survey of choral literature will be included. Prerequisite: Basic Conducting.

MUG 4301 Instrumental Conducting (2)With a background in basic, theory, and having performed in organizations, the student will develop a knowledge of baton technique, score reading, and interpretation. Prerequisite: Basic Conducting.

# MUG 5105 Advanced Conducting

Techniques

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.

(2)

MUH 3116 Evolution of Jazz (5)A history course that surveys jazz styles from mid-19th century to 1977. A sociological and musical look at jazz, the personalities and their experience.

MUH 3211 Music History Survey (5) A survey of music from antiquity to 1750. Lecture on historical styles will be supplemented with slides, recordings and music analysis.

MUH 3212 Music History Survey (5) A survey of music from 1750 to the present. Lectures on historical styles will be supplemented with slides, recordings, and musical analysis.

## MUH 3372 Twentieth Century Music: Exploration

A exploration of music since 1900. Lectures on style plus demonstrations will be supplemented with recordings and analysis. Elements of the popular idiom will be investigated.

MUH 5375 Twentieth Century Music: "New Dimensions" (4)

A technical study of music since 1900, Lectures on style plus demonstrations and practical application will be supplemented with recordings and analysis. Electronic and multi-media performance will be accented.

MUL 3011 Understanding and Enjoyment of Music I (5)

A non-technical introduction to program music of the 19th century, and folk/popular music of the 20th century.

MUL 3012 Understanding and Enjoyment of Music II

(5)A non-technical introduction to music before the 1800's and music of the 20th century. Comparisons of music up to and including electronic music.

MUL 4400 Keyboard Literature (5)Study of solo works for the keyboard from historical beginnings to the present. Performance

practices and stylistic analysis will be empahasized, with illustrations of representative works.

MUL 4500 Symphonic Literature (5) Survey of symphonic literature from the 17th century to present day. Analysis and illustrations of representative works.

### MUL 4661 History and Literature of Opera

(5)

(5)

Chronological survey of opera literature from the 17th century to present day. Analysis and performance of representative works.

MUM 4301 Business of Music

(5)

Principles and practices of modern publishing techniques: copyright laws: wholesale and retail distribution of music. Performance rights; agreements and relations between producers, directors, performers, writers, personnel managers, and booking agents. Prerequisite: Permission of instructor.

MUN 3140, MUN 4140, MUN 5145 Wind Ensemble

(VAR)

A group of wind and percussion instrumentalists. Prerequisite: Permission of conductor.

# **Performing Arts**

### MUN 3210, MUN 4210,

(VAR) **MUN 5215 Orchestra** An instrumental ensemble performing works from the symphonic repertory. Prerequisite: Previous experience, and permission of conductor.

MUN 3340, MUN 4340, **MUN 5345 Collegiate Chorale** 

(VAR)

A small ensemble of selected mixed voices performing a repertoire in the modern popular idiom. Miniature contemporary accompaniment will be utilized.

#### MUN 3380, MUN 4380, **MUN 5385 University Singers** (VAR)

A chorus performing a repertoire primarily from great choral works. Large orchestral accompaniment as well as various instrumental ensembles will be utilized.

#### MUN 3460, MUN 4460,

MUN 5465 Chamber Music

(VAR)

Small ensemble in the performing of chamber music literature. Prerequisite: Permission of conductor.

#### MUN 3710, MUN 4710,

MUN 5715 Studio Jazz (VAR) An ensemble to provide creative professionallevel experience in the contemporary popular idiom.

#### MUS 3905, MUS 5905 Directed Study

(1-5)

(5)

(5)

Designed to provide areas of exploration and specialization beyond the basic selected study

programs, such as electronic music, religious music literature, sound techniques, etc.

#### MUS 3910, MUS 4910, MUS 5910 Research (1-5)

Research composition or performance projects, under the guidance and direction of the music faculty. (May be repeated.)

#### **MUS 3949 Cooperative Education in Performing Arts**

A student majoring in Performing Arts may spend several quarters fully employed in industry or government in a capacity relating to the major.

#### MUS 4949 Cooperative Education in Performing Arts

A student majoring in Performing Arts may spend several quarters fully employed in industry or government in a capacity relating to the major.

## MUT 3031 Music Theory I

Designed to review and develop skills in basic theory, harmony, and ear training.

(5)

(5)

(5)

(4)

MUT 3032 Music Theory II

Designed to review and further develop skills in basic theory, harmony, and ear training. Prerequisite: Music Theory 1, or equivalent.

#### MUT 3416 Counterpoint

(5)A study of linear writing through species counterpoint. Two and three-part instrumental and vocal counterpoint of the 18th century: Canon, inventions, fugues. Particular emphasis will be placed on formal analysis. Prerequisite: Music Theory II, or equivalent.

MUT 3611 Form and Analysis (5)Study and analysis from the smaller forms of musical composition to multimovement forms. Prerequisite: Counterpoint.

#### **MUT 4311 Orchestration**

With a background of basic theory, the student will explore the techniques of writing and arranging for instruments in performing organizations and choral groups.

#### MUT 4561 Twentieth Century Theory-

Composition (5)This course will analyze and compose works using the following procedures: melodic-harmonic techniques developed in the late nineteenth century; serial, and improvisational techniques; and those derived from the use of electronic devices as performance media. Prerequisites: Survey of Basic Music, Counterpoint.

#### MUT 4641 Jazz Improvisation I

A beginning course in Jazz improvisation that teaches fundamental aspects, chord structures and extensions, chord scales, melodic patterns, and tunes. Course will involve both theory and practical application. A concert will be held at conclusion of term.

MUT 4642 Jazz Improvisation 11 (5)A follow-up course that both reinforces and extends all material learned in Jazz Improvisation 1. Course stresses more complex chord structures, scales and tunes. A concert will be held at conclusion of the term.

### MUT 5325 Arranging

A course in practical arranging for the public school teacher, including choral, band, and popular arranging.

#### MVB 3334, MVB 4345, MVB 5355

Applied Music-Brass (1-2)Individual instruction in applied music on trumpet, French horn, trombone, baritone horn, or tuba.

#### MVK 3331 MVK 4341, MVK 5351 Applied

(1-2)Music-Keyboard Individual instruction in applied music on piano or organ.

MVP 3331, MVP 4341, MVP 5350 Applied Music-Percussion (1-2)Individual instruction in applied music on all percussion instruments.

MVS 3116 Guitar Skills (5)Emphasis on music reading and elementary techniques. Open to all Florida International University students.

#### MVS 3216 Intermediate Guitar Skills

(5)

Emphasis on techniques and styles such as calypso, folk, blues, classical and jazz. Open to all Florida International University students.

#### MVS 3332, MVS 4343, MVS 5353

Applied Music-Strings (1-2)Individual instruction in applied music in violin, viola, cello, string bass, guitar, or harp.

MVS 4975 Recital and Research (2)All music majors, before graduation, must present at least one half of a public recital, and pass an oral examination on the music programmed.

(2-5)MVV 3100 Class Instruction-Voice Class instruction in voice designed to aid the student in developing performance skills and increased musical knowledge. (May be repeated.)

MVV 3331, MVV 4341, MVV 5351 Applied **Music-Voice** (1-2)

Individual instruction in applied music in voice.

MVW 3333, MVW 4345, MVW 5353 Applied Music-Woodwinds

(1-2)

Individual instruction in applied music on the flute, oboe, clarinet, bassoon, or saxophone.

## Theatre Major

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Fine Arts in Theatre

LOWER DIVISION PREPARATION:

Recommended Courses: Three semester hours in acting; stagecraft; stage lighting; costuming; voice for the theatre; three to six hours in dance; and theatre workshop.

#### UPPER DIVISION PROGRAM:

The goal of the Theatre Program is to provide well rounded theatre training through classes and productions conducted with professional theatre discipline and the highest possible aesthetic standards. In addition to satisfactory

## **College of Arts and Sciences**

# **Performing Arts**

completion of all course work, a Theatre Major is required to participate in all of the major productions presented during enrollment in the Theatre Program.

Required Cou	rses:		50
TPP 3110	Acting 1	5	
THE 4110,	4111		
	Theatre History		
	1 & 1]	10	
TPA 3200	Stagecraft 1	5	
TPA 3220	Stage Lighting	5	
TPA 3010	Scenic Design 1		
or			
TPA 4230	Stage Costuming	5	
TPA 3290L	-3294L		
	Technical Theatre		
	Lab	.10	
TPP 3650	Playscript Analysis	5	
TPP 3310	Directing	5	
Elective Courses:			40
			90

## Minor in Theatre:

Required Courses:		
THE 3000 Theatre Appreci	iation 5	
TPA 3200 Stagecraft I	5	
TPP 3110 Acting I	5	
TPP 3650 Playscript Analy	ysis 5	
Theatre Electives		

A grade of C or better in all courses required for the major is necessary for graduation.

## **Course Descriptions**

#### **Definition of Prefixes**

DAA-Dance Activities; OR1-Oral Interpretation; SPC-Speech Communication; THE-Theatre; TPA-Theatre Production and Administration; TPP-Theatre-Performance and Performance Training.

#### THEATRE MAJOR

DAA 3100 Modern Dance Technique I (2) Development of techniques and understanding of the art form of contemporary dance. (May be repeated.)

DAA 3101 Modern Dance Technique II (2)A continuation of basic techniques and understanding of the art form of contemporary dance. (Prerequisite: DAA 3100 or permission of instructor) (May be repeated.)

DAA 3200 Ballet Technique I (2)Development of techniques and understanding of ballet. (May be repeated.)

DAA 3201 Ballet Technique II (2)A continuation of basic techniques and understanding of ballet. (Prerequisite: DAA 3200 or permission of instructor) (May be repeated.)

**ORI 3000 Basic Oral Interpretation** (5) Development of the voice as an instrument for expressive interpretation of literature.

#### SPC 3600 Public Speaking (5)Study of the principles of ethical and effective public speaking, with practice in the construction and delivery of original speeches before an audience. (For non-theatre majors only.) (5)

THE 3000 Theatre Appreciation A study of theatre, process and product, for the audience.

THE 3051 Children's Theatre (5)Techniques of selection, production and performance of plays for children

THE 3071 Introduction to Filmmaking (5) For the beginning student of filmmaking. Survey of the origins and development of cinematography as an art form. Presentation and technical analysis of selected films.

THE 3075 Film Production I (5) Conceptual study of total-filmmaking. Equipment, procedures, location, sets, actors, and production staff will be examined, from the point of view of the director. Student will conceptualize, shoot, and edit a short film. (Prerequisite: THE 3071 or permission of the instructor. May be repeated.)

#### THE 3510 Dramatic Theory and Criticism I

(5)A study of basic critical writings on the theatre, from Plato and Aristotle to the present. Plays will be studied and critiqued.

#### THE 3511 Dramatic Theory and Criticism II

(5) A continuation of Dramatic Theory and Criticism 1, including practical application of principles in writing. Prerequisite: Dramatic Theory and Criticism 1.

### THE 4076 Film Production II

(5) Conceptual study of total filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined, from the point of view of the director. Student will conceptualize, shoot and edit a short film. (Prerequisite: THE 3075, or permission of the instructor. May be repeated.)

THE 4110 Theatre History I (5)The development of the theatre from its origins to the early 19th century.

THE 4111 Theatre History II (5)The development of the theatre from early 19th century to the present.

THE 4820 Creative Dramatics . (5) The study of informal drama activity with children. Techniques of improvisation, sense recall, music and movement are employed.

#### THE 4916 Research

(1-5)Supervised individual investigation of special research projects. Credit will vary with the nature and scope of the project. (May be repeated.)

THE 4950 Theatre Internship (1 - 15)Supervised internship in a professional company in acting, directing, stage management, design, technical theatre or theatre management

THE 5916 Research (1-5)Supervised individual investigation in special research projects. Credit will vary with the nature and scope of the project. (May be repeated)

THE 5940 Performance and Production (1-5) Supervised work in university, community or professional theatre production on an internship basis. Credit will vary with amount of time and responsibility involved. (If taken for less than maximum credit, may be repeated-for a total of not more than 15 quarter hours.)

#### TPA 3010 Scenic Design I

Fundamentals of designing effective settings for the play. Discussion and practice in: analysis, research, the creation of appropriate and exciting environments for the actor, and basic skills in rendering and model making. (Prerequisite for Theatre majors-TPA 3200)

#### TPA 3200 Stagecraft I

(5)An introduction to construction techniques used in stage. Direct experience with wood and metal working tools, blueprint reading, and various materials including wood, metal, plastics and fabrics. Lecture and laboratory.

#### TPA 3220 Stage Lighting

Familiarization with stage lighting equipment, purposes and aesthetics of stage lighting; development of an approach to designing lighting; practical experience in the use of equipment. Lecture and laboratory.

#### TPA 3250 Stage Make-up

Fundamentals of straight and character makeup. Use of greasepaint, and three dimensional techniques.

TPA 3290L Technical Theatre Lab I (2)Supervised crew work in construction, painting, lighting, costuming and running major productions. Required of Theatre majors.

TPA 3291L Technical Theatre Lab II (2)Supervised crew work. Required of Theatre majors.

TPA 3292L Technical Theatre Lab III (2)Supervised crew work. Required of Theatre majors.

(5)

# Philosophy and Religious Studies

TPA 3293L Technical Theatre Lab IV (2) Supervised crew work. Required of Theatre majors.

TPA 3294L Technical Theatre Lab V (2)Supervised crew work. Required of Theatre majors.

TPA 4061 Scenic Design II (5) Advanced skills in setting the mood of, and creating movement through a theatrical space. Emphasis will be placed upon rendering techniques and model making. (Prerequisite: TPA 3010.)

TPA 4201 Stagecraft II (5) Advanced problems in the construction and movement of scenery, properties and special effects. (Prerequisite: TPA 3200.)

TPA 4230 Stage Costuming I (5)Fundamentals of costume design. Study of period, character and concept. Familiarization with fabrics, and techniques of construction and trim.

TPA 4231 Stage Costuming II (5)Advanced skills in designing, rendering and construction costumes. Includes pattern making and charting the show. (Prerequisite: **TPA 4230)** 

TPA 4260 Sound for the Theatre (5) A study of the uses of sound effects and high fidelity electronics in theatrical production.

**TPA 4400 Theatre Management** (5) Survey of all aspects of theatre administration: budget planning and maintenance; public relations; box office and house management; unions and contracts.

TPP 3110 Acting I (5)This course is designed to free the actor as an instrument of his or her craft through improvisation, theatre games, and exercises. Work on basic voice projection, movement, stage language, scene study, and basic elements of character are included.

TPP 3111 Acting II (5) Beginning scene study and character building, continuing work begun in Acting I. (Prerequisite: TPP 3110, TPP 3282)

TPP 3282 Theatre Speech and Movement (5) Development of the actor's two main instruments: the voice and the body.

TPP 3310 Directing I (5)Basic principles of play direction; including problems of selecting, analysing, casting and rehearsing plays. (Prerequisites: TPP 3650)

#### **TPP 3650 Playscript Analysis**

Detailed playscript examination for directors, actors and designers, focusing on identification of those elements upon which successful theatre production depends.

**TPP 3730 Dialects** (5) A study of dialects common to western theatre. Prerequisite: TPP 3100 (Acting).

TPP 4112 Acting III (5)Advanced scene study, character and improvisation work. Elements of style, auditions techniques and ensemble playing will be explored. (Prerequisite: TPP 3111)

**TPP 4280 Special Problems in Acting** (5)This course will concentrate on the Acting demands of a specific period, style, genre, or playwright. (Prerequisite: TPP 4112 or permission of instructor)

TPP 4311 Directing II (5)A continued study of direction techniques culminating in the preparation of a play for public performances. (Prerequisite: TPP 3310)

**TPP 4531 Stage Combat** A study of combat techniques for the stage, including fencing, boxing, wrestling and tumbling.

**TPP 4600 Playwriting** (5) Study of the theory and principles of writing plays for the stage. Practice in writing either the short or long play. (May be repeated.)

## Philosophy Major, **Religious Studies Major**

James Huchingson, Assistant Professor and Chairperson Ricardo Arias, Professor George Kovacs, Professor Richard Konkel, Associate Professor Stanislaus Grabarek, Assistant Professor Bruce Hauptli, Assistant Professor Kenneth Henley, Assistant Professor Bongkil Chung, Visiting Assistant Professor Richard Ketchum, Visiting Assistant Professor J. Robin King, Visiting Assistant Professor



(5)

**Philosophy Major** 

LOCATION: Tamiami Campus only DEGREE: Bachelor of Arts LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses: Philosophy, Religion. UPPER DIVISION PROGRAM:

	Quarter Hours
Required Areas:	45
Epistemology	5
Metaphysics	5
Ethics and Aesthetics	5
Logic	5
History of Philosophy	10
Philosophy Seminar	5
Other Philosophy Courses	10
Courses in one other discipline	20
Electives:	25
	90

A grade of "C" or better in all courses required for the major is necessary for graduation.

Remarks: A more detailed description of the Philosophy Program is contained in a brochure available at the Department of Philosophy and Religion. Students select their required courses in philosophy with the approval of a faculty member of the Department.

Students are also encouraged to consider a "dual-major," and thus simultaneously meet the requirements of two academic majors. In this case, the twenty quarter hour credits required in one other academic discipline (as part of the Philosophy Major) would be met by courses taken towards the second major.

The College of Arts and Sciences requires for the bachelor's degree that the student take a minimum of 10 quarter hours outside the department sponsoring his or her major program. For the various ways of meeting this requirement, please consult the Department.

The Department offers many of its courses at the North Miami Campus and also participates in the Humanities Major.

(Continued)

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# **Philosophy and Religious Studies**

## **Religious Studies Major**

LOCATION: Tamiami Campus only DEGREE: Bachelor of Arts LOWER DIVISION PREPARATION: Required Courses: None Recommended Courses: Religion. Philosophy UPPER DIVISION PROGRAM: Quarter Hours

Required Areas:		-45
Religion and Culture	10	
Eastern Studies	5	
Biblical Studies	5	
Religious Studies Seminar	5	
Other Religious Studies Courses or		
Optional Tracks	20	
Courses in one other discipline		20
Electives:		25

A grade of "C" or better in all courses required for the major is necessary for graduation.

Remarks: A more detailed description of the Religious Studies Program is contained in a brochure available at the Department of Philosophy and Religion. Students select their required courses in religious studies with the approval of a faculty member of the Department.

Students are also encouraged to consider a "dual-major" i.e., simultaneously meet the requirements of two academic majors. In this case, the twenty quarter hour credits required in one other academic discipline (as part of the Religious Studies Major) would be met by courses taken towards the second major.

The College of Arts and Sciences requires for the bachelor's degree that the student take a minimum of 10 quarter hours outside the department sponsoring his or her major program. For the different ways of meeting this requirement, please consult the Department.

The Department offers many of its courses at the North Miami Campus and also participates in the Humanities Major.

#### Minor in Philosophy:

A student majoring in another academic discipline would earn an academic minor in philosophy by taking an approved pattern of at least four philosophy courses (20 quarter hours), based upon an academic rationale or unifying study theme, and approved by the Chairperson of the Department. An acceptable minor in philosophy would be four courses in one of the areas designated in the course list of the Philosophy Program. A student may propose still other patterns of four philosophy courses for a minor, provided the selection is based upon an acceptable academic rationale.

Minor in Religious Studies:

A student majoring in another academic discipline would earn an academic minor in religious studies by taking a pattern of at least four REL courses (20 quarter hours), based on an academic rationale or unifying study theme, approved by the Chairperson of the Department. An acceptable minor in religious studies would be four courses in one of the areas designated in the course list of the Religious Studies Program. A student may propose still other patterns of four religious studies courses for a minor, provided the selection is based upon an acceptable academic rationale.

## **Course Descriptions**

## **Philosophy Major**

#### **Definition of Prefixes**

90

EDF-Education, Foundations; PHH-Philosophy. History of; PHI-Philosophy; PHM-Philosophy of Man and Society; PHP-Philosophers and Schools.

EDF 3542 Philosophy of Education (5) Notions of philosophy and education will be applied in the review of prominent philosophies of education. Special attention will be given to the development of the student's own philosophy of education and to the importance of philosophical assumptions in curriculum designs and teaching strategies.

PHH 3042 Latin American Philosophy (5) This course will examine the development of Latin American thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of prominent Latin American philosophers in the light of problems such as personal and cultural identity.

PHH 3100 Ancient Philosophy (5)The basic concerns and teachings of representa-

tive philosophers and schools of thought, particularly in the Greek and Roman cultural settings, and linkages to their past and future are emphasized in this course.

#### PHH 3200 Medieval Philosophy

The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the Middle Ages, and linkages to their past and future are emphasized in this course.

PHH 3420 Early Modern Philosophy (5) The basic concerns and teachings of representative philosophers and schools of thought in the period from the Renaissance to Kant and the linkages to their past and future are emphasized in this course.

#### PHH 3440 Late Modern Philosophy

The basic concerns and teachings of representative philosophers and schools of thought in the period from Kant to Nietzsche and the linkages to their past and future are emphasized in this course.

(5)

(5)

(5)

(5)

#### PHH 3700 American Philosophy

This course will examine the development of American philosophical thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of the prominent American philosophers, in the light of problems such as the relationship between theory and practice.

#### PHH 3840 Indian Thought

Major schools and works will be examined showing the development of Indian thought, from Hinduism through Buddhism. Emphasis will be placed on metaphysical and epistemological problems in Buddhism. Some historical relationships between the basic values of Buddhism and the diverse cultural, social and political forms in which they have been expressed will also be studied.

PHH 4600 Twentieth Century Philosophy (5) The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the present century, and linkages to past and emerging generations are emphasized in this course.

#### PHI 3010 Introduction to Philosophical Thinking

This introductory course examines the presence of philosophy and the role of philosophizing in man's search for understanding of himself and of his world. It includes the study of the basic structure, the many applications, and some basic issues of philosophical thinking, through a dialogue with those original sources, more accessible for a first learning experience in philosophy, which represent basic events in the history of philosophizing.

PHI 3100 Logic and Problem Solving This introductory course in logical thinking and argumentation will treat both practical and theoretical approaches to understanding human communications and solving problems. Students will be introduced to inductive and deductive logic, fallacies, and the role of logic in scientific explanation and popular expression.

#### PHI 3300 Epistemology

(5)

(5)

The viewpoints of various philosophers and schools of thought regarding types of knowledge, certitude, and creativity are the main emphasis of this introductory course. The meaning of truth and truthfulness is analyzed from both the classical and the contemporary perspectives. (Continued)

(5)

# **Philosophy and Religious Studies**

#### PHI 3320 Philosophy of Mind

(5)

(5)

An inquiry into the concept of mind and subsidiary concepts such as sensation, perception, desire, emotion, intention, volition, imagination, and intellect. The course will address the problem of the relation of mind and body and such topics as the concept of a person, the nature of intentional action, and the nature of consciousness

### PHI 3400 Philosophies of Science

The philosophic background of scientific method will be examined. Attention will be given to the philosophical consequences of conceptual change in the sciences. Such topics as the growth and unity of science, explanation and prediction, and the role of science in society will be explored.

PH1 3500 What Is Reality?

(5)This introductory course examines basic metaphysical questions regarding the nature of reality, as well as the meaning of these questions for man's concept of himself and his world. Fundamental texts from classical and contemporary philosophers will be considered.

#### PHI 3630 Ethics

(5)

The nature and principles of ethical knowledge are examined in this introductory course. Questions such as "What is intrinsically good?", "What ought one to do?", and "How are ethical statements justified?" will be investigated by considering readings from Aristotle, Augustine, Mill, Hobbes, and Kant.

PH1 3700 Philosophy of Religion (5) This course will involve a study of the phenomena of religion, as a means of identifying and evaluating religion's essential and universal element. Consideration will also be given to the relations between the enterprises of philosophy and religion. The result of these investigations will then be applied to specific topics examined by both disciplines.

#### PH1 3762 Eastern Philosophical and Religious Thought (5)

This introductory course examines the development of philosophical and religious thought in the East, from ancient to modern times. Hinduism, Buddhism, Confucianism, Taoism and other major viewpoints will be considered, in themselves and in comparison with Western forms of thought.

PHI 3800 Aesthetics

(5)An introduction to problems in aesthetics, with emphasis on those problems which are especially relevant to appreciation and criticism in the arts. Typical problems include the relation between form and content, truth and falsity in art, the nature of emotion in art and of the aesthetic response, as well as the nature of art itself. This course will include a study of selections from the writings of major thinkers and the consideration of those works of art which are relevant to this study.

### PHI 4133 Symbolic Logic

(5)The emphasis of this course is on the theoretical properties of logical systems, rather than on their use. The student will be introduced to a selection of advanced logical topics, including some of the chief results of modern logic (e.g. completeness of quantification logic). Prerequisite: An introduction to logic, such as PHI 3100.

PHI 4221 Philosophy of Language (5)This course examines the phenomenon of language as an integral part of human culture and as the way of human encounter. It includes contemporary structural and phenomenological analysis of the meaning of language, the power and limitations of speech, the relationship between thought and language, the non-rational thought process and its influence upon rational thought, and language and the power and magic of the word.

## PH1 4222 Philosophy of Dialogue

(5)This course examines the meaning, the foundations, the limitations of dialogue, and the dialogical structure of expression and human relationships based on the Philosophy of Martin Buber. It includes a philosophical analysis of the dialogical principle and the application of its insights to the problems of human living and knowing.

PHI 4630 Contemporary Ethical Issues (5)After a review of basic questions regarding ethics, this course considers special ethical problems in contemporary society from the perspective of one or more philosophers or systems of ethics. Topics will be selected and announced in advance.

PHI 4631 Ethical Issues in Business (5)After a review of basic questions regarding ethical knowledge, norms and systems, students will consider the ethical dimensions of current problems and issues facing the business manager or worker: corporate decisions, personal responsibility, product quality and performance, production, marketing and advertising, management, and general economic rationality.

PH1 4632 Ethical Issues in Politics (5)After a review of basic questions regarding ethics, politics, and their relationship, students will consider with historical perspective some fundamental currents and alternatives in the field of political ethics, and then will examine the ethical dimension of some contemporary issues facing the citizen, the public servant and the political leader, such as credibility, technocracy, conflict of interest, and violence.

### PHI 4633 Biomedical Ethics

After examining the foundations of ethics, this course will consider the human and ethical dimensions of current issues in the life sciences. such as the meaning of human living and suffering, ethics of genetic control, death and dying, personal responsibility in the medical and counseling professions.

PHI 4680 What Is Value? (5)Several questions will be examined in this course in the context of classical and contemporary value theories. What is value? How are values known? What are the determinants of value? How do values differ from beliefs and attitudes? Are values relative?

PHI 4882 Philosophy in Literature (5) This course will examine modern philosophical currents as seen in the works of pertinent literary figures, such as Tolstoy, Dostoevsky, Conrad, Kafka, Koestler, Camus and Mann. Certain basic themes resulting from the merging of aesthetic value and philosophic reflection will be examined: the self, alienation, history, the absurd, time and death.

PH1 4910 Independent Research (VAR) Topics will be selected to meet the academic needs of the individual student.

PH1 4935 Philosophy Seminar (5)This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

(5) PHI 5934 Special Topics Topics will be selected to meet the academic needs of groups of students.

PHM 3040 Philosophical Anthropology (5)This course attempts to interpret philosophically scientific perspectives concerning the nature of man and of the human condition. It seeks to elucidate the basic qualities that make man what he is and distinguish him from other beings.

PHM 3200 Social and Political Philosophy (5) After an introduction to the various dimensions of social philosophy, in its relationship to other philosophical disciplines, to the social sciences, and to social ideologies; this course will examine some of the fundamental questions raised by human experience regarding the origins, purposes, and types of society. The readings will be chosen from the works of contrasting major social thinkers.

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# **Philosophy and Religious Studies**

(5)

PHM 3500 Philosophy of History

After exploring the definitions, dimensions and interrelations of philosophy and history, students will examine major philosophies of history. The social responsibility of the historical narrative and the philosophical assumptions of historiographies will be discussed.

#### PHM 4020 Love and Sexuality (5)This course examines the different philosophical approaches to love and sexuality, and studies the basic problems in human sexual living, such as love and the man-woman relationship, the formation of sexual union, and attitudes toward love and sexuality in contemporary societv.

PHM 4050 Philosophy of Death (5)(S)This course analyzes the meaning of death and man's attitude towards death and the dying. It examines how philosophy can share in the new confrontation between man and his death, and shows the ways philosophical thinking contributes to the discovery of an authentic attitude towards the phenomenon of death as part of human living.

#### PHM 4203 Contemporary Social and Political Issues (5)

This course will examine the dimensions of change and order in contemporary societies, developed and underdeveloped, with particular attention to the human values involved, in the light of different philosophical theories and socio-political ideologies.

#### PHM 4400 Philosophy of Law (5)After an analysis of the nature of law and judicial reasoning in the light of fundamental alternative interpretations, basic topics of legal philosophy will be considered, such as freedom and rights, responsibility and punishment, rule of law and civil disobedience, legality and justice.

#### PHP 3840 Chinese and Japanese Philosophy

(5) This course will examine the main currents of Chinese and Japanese thought, with special focus on the quest of the Chinese people toward a more harmonious adjustment to their environment. The investigation will include consideration of the Confucian, Mohist, Taohist, Legalist and Zen Buddhist philosophies.

### PHP 4510 Marxism

This course examines the philosophic insights of Marx and the main trends (anthropological, social, existential) in contemporary Marxism. It includes an analysis of the Marxist interpretation of alienation, work, and human authenticity.

### PHP 4782 Phenomenology

This course analyzes the methods, the basic philosophical insights and the applications of 20th century Phenomenology. It includes the phenomenological analysis of knowing as well as basic questions regarding the nature of reality together with the study of fundamental texts from Husserl, Heidegger and Merleau-Ponty.

### PHP 4784 Analytic Philosophy

This course examines the 20th century Anglo-American tradition of approaching philosophic problems by the methods of linguistic analysis. It will include study of techniques of linguistic analysis and an evaluation of their adequacy in dealing with meaning and truth, the mind-body problem, and free will.

### PHP 4786 Existentialism

This course examines the origin, basic philosophical insights, and influence of the mainstreams of modern existentialism. It includes the study of fundamental texts of Kierkegaard, Nietzsche, Sartre, Jaspers and Camus.

#### PHR 3949 Cooperative Education in Philosophy/Religion

(5)A student majoring in Philosophy or Religion may spend several quarters fully employed in industry or government in a capacity relating to the major. Permission of Cooperative Education and Major Department.

#### PHR 4949 Cooperative Education in Philosophy/Religion

A student majoring in Philosophy or Religion may spend several quarters fully employed in industry or government in a capacity relating to the major. Permission of Cooperative Education and Major Department.

## **Religious Studies Major**

**Definition of Prefixes** REL-Religion.

(5)

#### REL 3030 Introduction to Religious Inquiry (5) This course examines the various ways used by religious individuals and communities as they seek to understand themselves and their relation to the world. It will address such questions as the relation among faith, revelation, and reason; the knowledge and existence of God as the sacred; and the encounter of the believer and non-believer.

#### **REL 3040 Introduction to Religion** (5)

A survey of the basic elements in the phenomenon of religion. Discussion will include myth and symbol, ritual, mysticism and other forms of religious experience, the sacred, and religious community.

(5)

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(5)

(5)

**REL 3100 Religion and Culture** 

This course will explore both the ways religion uses culture to express its basic concerns and the ways that culture and lifestyle reflect religious perspectives. Attention will be given to traditional and popular expressions of culture.

(5)

(5)

(5)

(5)

**REL 3118** Art, Literature, and Religion (5) The presupposition of this course is that the deepest religious instincts of humankind have, through the ages, found expression in its cultural creations. Selected art and literary texts will be examined to see how these reflect an encounter with the sacred or with the particular religious problems of an age.

#### **REL 3172 Religion and Ethics**

This course will examine the nature of ethics in its relationship to faith orientation. After considering the various religious foundations of ethics in the thought of influential ethical thinkers, attention will be given to the application of these perspectives to pressing ethical problems in contemporary society.

#### **REL 3210 The Hebrew Bible**

An introductory survey of the Old Testament from the points of view of historical background, the cultures in which the works were written, and the ideas they contain. Emphasis will be given to the relevance of biblical themes for the contemporary situation.

#### **REL 3224 The Prophets**

(5) What is a prophet? This course will attempt to answer this question both in terms of the classic Hebrew prophets, whose acts and words are preserved in the Old Testament, and the nature of the prophetic vocation in the contemporary world.

**REL 3250 The New Testament** 

This course is a study of the life of Jesus through an examination of his acts and words as recorded by his contemporaries in the New Testament. Attention will also be given to the interpretation of Jesus' message by theologians and others as they seek to relate him to the modern world.

#### **REL 3252 Theology of Paul**

This course will survey the life and times of Paul as a prelude to an in-depth study of this primary Christian thinker. Attention will be given both to the sources of his thought and to its contemporary relevance.

#### **REL 3270 Biblical Theology** (VAR)

This course will examine the thought and heritage of the Bible, especially as it discloses the history of the Hebrew people, the role of the prophets, the life and times of Jesus, and the thought of Paul. Major themes will be related to modern movements in Judaism and Christianity.

(5)

(5)

(5)

(5)

# Physical Sciences / Chemistry

#### **REL 3310 Religions of the East**

An in-depth survey of the major religious traditions of India, China, Japan, and South Asia including Hinduism, Buddhism, Jainism, Sikhism, Taoism, Confucianism, and Shinto.

**REL 3300 Religions of the World** (5) Introduction to the major faiths of mankind. Included in the discussion will be Hinduism, Buddhism, Taoism, Judaism, and Christianity. This course will involve a comparison of common elements in these major religions while respecting their distinctive features.

#### REL 3411 Meaning of Life

This introductory course examines the convergent and divergent views of philosophies and religions regarding the meaning of life. Special emphasis is given to the variety of strategies available to the individual in the personal search for such meaning.

#### REL 3460 Religion, Science, and Technology

The methods, assumptions, and goals of religion will be considered alongside those of science and technology in this comparative examination of several important ways humankind seeks to discover ultimate meaning in order to understand and transform itself.

#### **REL 3510 Early Christianity**

This course will survey the development of Christian thought and practice from its beginnings as a primitive church to its establishment as a major faith in the Middle Ages. It will then consider the relevance of this early experience for modern movements of this faith.

#### **REL 3532 Reformation**

The lives and thoughts of the leaders of the Protestant Reformation will be the focus of this course. Significant attention will be given to the perennial personal experiences and theological perspectives which directed the actions of such persons as Luther, Calvin, and Zwingli, as well as the movements they founded.

#### **REL 3600 Judaism**

This course is an introduction to this major world religion. Following a survey of the history of Judaism, major themes in Jewish religious thought will be highlighted, especially as they relate to modern movements of this faith.

#### REL 4117 Issues in Art, Literature and Religion

This course, working on the same presuppositions as REL 3110, will look to particular religious issues that have found reflection in cultural creations, e.g., the problems of evil and suffering in modern literature; the artist and the struggle with faith. **REL 4173 Technology and Human Values (5)** This course will explore the sources and impact of modern technology from philosophical and religious perspectives. Topics to be discussed include the effects of technology upon the understanding of human nature; and the relationship among technology, the natural environment, and hopes for a livable human future.

**REL 4182 Mysticism East and West** (5) A comparative study of mystical practice and experience as found in the writings of select major mystics of Eastern and Western traditions. An attempt will be made to discover if or in what ways the mysticism of the East is similar to that of the West.

### **REL 4311 Oriental Meditation**

A detailed examination of the various techniques of meditation found in Eastern religious traditions. This examination will be pursued on both the theoretical and practical levels with major emphasis on class participation in the techniques themselves.

(5)

### REL 4410 Issues in Religious Thought

Attention will be concentrated on one or possibly two major issues on the boundary between religion and philosophy. Possible topics for examination would be the nature of God, the problems of evil, faith and knowing, religious language, and the nature of man in religion.

#### REL 4420 Contemporary Judaic-Christian Religious Thought

Religious Thought (5) A survey of major figures in contemporary Jewish and Christian theology for the purpose of understanding their thought and its application to current issues in religion and society.

#### **REL 4440 Man and Nature**

This course will explore resources from philosophy and religion that could contribute to a solution of the current environmental crisis. Ethical issues of the environment will especially be examined in the light of these resources.

**REL 4463 Issues in Religion and Science** (5) An examination of the relationships between the perspectives of religion and science and the consequences of these relationships for our time. A different major topic will be selected and announced each time the course is offered.

### REL 4481 Contemporary Latin American

Religious Thought (5) The major trends of religious thought in Latin America and their impact on the society of the area will be investigated. Special reference will be made to Post-Vatican II theology and to very recent theologies of liberation.

**REL 4493 Religion and Modern Man** (VAR) An examination of relevant issues in religion concerning modern man. Behavioral as well as conceptual expressions are analyzed.

REL 4808 Applied Theology (VAR) The study of contemporary problems and methodologies of pastoral theology in a practical-theoretical context.

REL 4910 Independent Research (VAR) Topics will be selected to meet the academic needs of the individual student.

REL 4931 Religious Studies Seminar (5) This seminar is designed for majors and other qualified students approved by the Department and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

#### REL 5937 Special Topics

Topics will be selected to meet the academic needs of groups of students.

(5)

The Department of Philosophy and Religion also participates in the Continuing Education Program of the University and thus serves the community and professional groups by offering several courses off-campus. For further information concerning these courses (e.g. credit hours, courses not listed in the catalog) consult the Department.

## Department of Physical Sciences Chemistry, Earth Sciences, Environmental Studies, Physics

- Howard E. Moore, Professor and Chairperson (Chemistry)
- John W. Shelton, Professor (Chemical Physics) Kenneth A. Hardy, Associate Professor
  - (Physics)
- Arthur W. Herriott, Associate Professor (Chemistry)
- Florentin J.-M.R. Maurrasse, Associate Professor (Geology)
- Stephan L. Mintz, Associate Professor (Physics) John H. Parker, Associate Professor (Chemistry and Environmental Science)

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# Physical Sciences Chemistry

Kathryn R. Williams, Associate Professor (Chemistry)

Grenville Draper. Assistant Professor (Geology) Zaida C. Martinez, Instructor (Chemistry) Paul A. Edwards, Visiting Assistant Professor (Chemistry)

## Chemistry

The student may choose a Bachelor of Arts program or a Bachelor of Science program of study in Chemistry.

LOCATION: Tamiami Campus only

#### DEGREE: Bachelor of Arts

This program is for students preparing for careers in medicine, dentistry, environmental studies, veterinary medicine, or secondary science education. (Students interested in teacher certification refer to the School of Education, page 2.)

LOWER DIVISION PREPARATION:

*Required Courses:* one year of general chemistry with lab; one year of general biology with lab; algebra and trigonometry. (Advanced high school courses in algebra and trigonometry are acceptable.)

## LOWER OR UPPER DIVISION PREPARATION:

Required courses which may be taken at the University: MAC 3411-MAC 3412 Differential and Integral Calculus: CHM 3210. 3210L-CHM 3211, 3211L Organic Chemistry 1-11 with lab: PHY 3040C-PHY 3041C-PHY 3042C Physics with Calculus or PHY 3050C-PHY 3051C Physics without Calculus.

#### UPPER DIVISION PROGRAM:

Quarter Hours			
Required Course	2		26
	Advanced Organic		
	Chemistry	5	
CHM 4230L	Organic Structure		
	Determination	2	
OT			
CHM 4320L	Research Techniques in		
	Organic Chemistry	2	
CHM 3400	Physical Chemistry for		1
	Life Sciences	5	
CHM 3400L	Physical Chemistry for		
	the Life Sciences		
	Laboratory	2	
CHM 3120	Quantitative Analysis	5	
CHM 3120L	Quantitative Analysis		
	Laboratory	2	
	One additional		
	chemistry course	5	
Electives:			64
			90
	OD		

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OR
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DEGREE: Bachelor of Science

This program prepares the student for graduate study or a professional career as a chemist in industry, in government service, or in secondary school teaching.

LOWER DIVISION PREPARATION:

Required Courses: One year of general chemistry with lab; algebra and trigonometry. (Advanced high school courses in algebra and trigonometry are acceptable.)

LOWER OR UPPER DIVISION PREPARATION:

Required courses which may be taken at the University: MAC 3411-MAC 3412 Differential and Integral Calculus; CHM 3210, 3210L-CHM 3211, 3211L Organic Chemistry I-II with lab; PHY 3040C, PHY 3041C, PHY 3042C Physics with Calculus.

#### UPPER DIVISION PROGRAM:

UFFER DIVIS	ION PROGRAM:	
	Quarter	Hours
Required Course	25:	61
CHM 4220	Advanced Organic	
	Chemistry	5
CHM 4230L	Organic Structure	
	Determination	2
OF		
CHM 4320L	Research Techniques	
	in Organic Chemistry	2
CHM 3410	Physical Chemistry I-	
	Thermodynamics	5
CHM 3411	Physical Chemistry 11	
	-Equilibrium and	
	Properties of Solutions	5
CHM 3412	Physical Chemistry III	
	-Quantum Mechanics	5
CHM 3410L-	CHM 3411L-CHM	
3412L	Physical Chemistry	
	Laboratory I-II-III	2-2-
CHM 3120	Quantitative Analysis	5
CHM 3120L	Quantitative Analysis	-
	Laboratory	2
CHM 4130	Modern Analytical	-
	Chemistry	5
CHM 4130L	Modern Analytical	
	Chemistry Laboratory	2
CHM 4610	Advanced Inorganic	
	Chemistry	5
CHM 4930	Senior Seminar	1
CHM 4910L,	4911L and/or 4912L	
	Research and	
	Independent Study in	
	Chemistry	4
One additiona	al senior-level chemistry	
course		5
	Courses: at least one of	
the following:		
MAP 3302	Differential Equations	5
MAP 4401	Math Methods in the	
	Physical Sciences	• 5
	-	

COP 3112	Introduction to	
	Computers I	5
Electives:		- 29
		90

*Remarks:* No *D* grades will be allowed in courses required for the major. This rule includes required courses outside the discipline.

Minor in Chemistry:

Quarter Hours Required Courses: 35 CHM 3045, 3045L-CHM 3046, 3046L General Chemistry with Laboratory 14 CHM 3210, 3210L-CHM 3211. 3211L Organic Chemistry with Laboratory 14 CHM 3120, 3120L Quantitative Analysis with Laboratory 35

Criminalistics-Chemistry Program

Criminalistics-Chemistry Core Requirements: Same as requirements for bachelor's degree in Chemistry. (Degree granted by Department of Physical Sciences.)

#### Chemistry Electives:

If the student chooses the BA degree in Chemistry, he/she should elect at least one of the following:

CHM 4490	Spectroscopy and Molecular	
	Structure	5
CHM 4130,	4130L Modern Analytical	
	Chemistry with lab	7

#### Internship:

1

A 5-10 credit internship in the laboratory of a participating criminal justice agency.

Criminal Justice Coursework:

The student should elect 15 credits of criminal justice courses in consultation with an advisor in the Department of Criminal Justice.

Electives:

Coursework in the behavioral and political sciences. as well as upper division coursework in the biological sciences, is recommended to total 90 quarter hours.

# Master of Science in Chemistry

The Department of Physical Sciences at Florida International University participates jointly

# **Physical Sciences** Chemistry

with the Department of Chemistry at Florida Atlantic University in offering the M.S. in Chemistry. Students entering the program must have a B.S. (or equivalent) and must satisfy the requirements for admission to the FAU master's program. Students may take a substantial part of their course work at FIU and may undertake their research under the supervision of an FIU faculty member. Two Florida International University faculty members serve on each student's advisory committee. The degree is awarded by Florida Atlantic University. Students in the program must satisfy the FAU requirements for the M.S. in Chemistry.

## **Cooperative Education**

Students seeking the baccalaureate degree in Chemistry may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends several quarters fully employed in an industrial or governmental chemistry laboratory. For further information consult the Department of Physical Sciences or the Department of Cooperative Education.

## **Course Descriptions**

#### **Definition of Prefixes**

CHM-Chemistry; CHS-Chemistry-Specialized; ISC-Interdisciplinary Natural Science.

(5)(F,S)

#### CHM 3030 Survey of General Chemistry

A basic one-quarter survey course in inorganic chemistry for nonmajors. Topics include atomic structure, stoichiometry, bonding, equilibrium, electrochemistry. Does not fulfill requirements for chemistry, biology, or pre-med majors. Familiarity with algebraic manipulations is required. Must be taken concurrently with CHM 3030L.

#### CHM 3030L Survey of General Chemistry

(2)(F,S)Laboratory to accompany CHM 3030. Basic laboratory techniques are introduced. Must be taken concurrently with CHM 3030.

#### CHM 3045-CHM 3046 General

Chemistry I-II (5-5)(F,W,S,SS) Fundamental principles of modern chemistry: atomic structure, stoichiometry, chemical bonding, states of matter, thermodynamics, solutions, kinetics, equilibrium, electrochemistry. This course is primarily designed for the student who feels that his/her background in general chemistry is somewhat weak and who would like to go on to organic chemistry or more advanced biology courses. Familiarity with algebraic manipulations is required, Should be accompanied by CHM 3045L-3046L.

#### CHM 3045L-CHM 3046L General **Chemistry Laboratory I-II** (2-2)(F,W,S,SS)

Laboratory to accompany CHM 3045-3046. Basic laboratory techniques are introduced and experiments performed on material relating to CHM 3045-3046.

CHM 3120 Quantitative Analysis (5)(W,S,SS) Fundamentals of classical quantitative analysis. Topics include theory of precipitation, acidbase, and oxidation-reduction reactions, as well as an introduction to spectrophotometric methods of analysis, ion-exchange techniques and complex formation titrations. Must be taken concurrently with CHM 3120L. Prerequisites: CHM 3045,3045L-CHM 3046,3046L.

#### CHM 3120L Quantitative Analysis

Laboratory (2)(W,S,SS)Laboratory to accompany CHM 3120. Must be taken concurrently with CHM 3120.

### CHM 3200 Survey of Organic

Chemistry (5)(W) A basic one-quarter survey course in organic chemistry for nonmajors presenting a broad background in the reactions and structures of organic molecules. Does not fulfill requirements for chemistry, biology, or pre-med major. Must be taken concurrently with CHM 3200L. Prerequisite: general chemistry.

#### CHM 3200L Survey of Organic Chemistry

(2)(W) Laboratory An introduction to the basic experimental techniques of organic chemistry. Corequisite: CHM 3200.

CHM 3210 Organic Chemistry I (5)(F,S) An introduction to chemical bonding and atomic structure theory as it pertains to the chemistry of carbon compounds. Correlation between structure and reactivity of organic molecules followed by a systematic look at the various reaction types using reaction mechanisms as a tool for study. Prerequisite: general chemistry.

#### CHM 3210L Organic Chemistry Laboratory I (2)(F,S)

An introduction to the basic experimental techniques of the organic chemist. Corequisite: CHM 3210.

CHM 3211 Organic Chemistry II (5)(W,SS) Continuation of CHM 3210.

CHM 3211L Organic Chemistry Laboratory II (2)(W,SS) Synthesis and qualitative analysis of organic compounds. Corequisite: CHM 3211. Prerequisite: CHM 3210,3210L.

#### CHM 3400 Physical Chemistry for the Life Sciences (5)(S)

Principles of physical chemistry with particular reference to the life sciences. Topics include thermodynamics, equilibria, electrochemistry, and reaction kinetics. Prerequisites: differential and integral calculus and general physics. A background in quantitative analysis is also helpful.

#### CHM 3400L Physical Chemistry for the Life Sciences Laboratory (2)(S)

Projects in physical properties of solutions, equilibrium, reaction kinetics and equations of state of interest to students in life sciences. Must be taken concurrently with CHM 3400.

#### CHM 3410/PHY 3503 Physical Chemistry I-Thermodynamics (5)(F)

Fundamental principles of thermodynamics; the first, second, and third laws, free energy, entropy, in addition to the chemical potential, phase rule and its applications, concepts of activation energy. The first in a three-quarter physical chemistry sequence. Prerequisites: general chemistry, mathematics through Calculus II, and general physics with calculus.

#### CHM 3410L Physical Chemistry Laboratory I

(2)(F)

Equation of state, thermochemical phase equilibrium experiments. Some use of a computer for data analysis. Must be taken concurrently with CHM 3410.

#### CHM 3411 Physical Chemistry II-Equilibrium, Kinetics and Properties of Solutions (5)(W)

The second in the series of physical chemistry courses: equilibrium, the relationship of the equilibrium constant to the chemical potential, catalyzed reactions, colligative properties of solutions, osmotic pressure, dipole moments and conductivity. Prerequisite: CHM 3410.

#### CHM 3411L Physical Chemistry Laboratory II

(2)(W)

Equilibrium colligative properties, transport reaction rate, electromotive force and conductivity experiments. Must be taken concurrently with CHM 3411.

#### CHM 3412/PHY 4604 Physical Chemistry III -Quantum Mechanics (5)(S)

The third in the physical chemistry series: simple quantum mechanical calculations, solutions to the Schroedinger wave equations, simple harmonic oscillator, particle in a square well, the hydrogen atom, structure of atomic and molecular orbitals. Prerequisites: general chemistry, general physics with calculus and mathematics

# **Physical Sciences** Chemistry

through Calculus II. Multivariable calculus or differential equations recommended.

### CHM 3412L Physical Chemistry

Laboratory III (1)(S)Relationship of spectra to atomic, crystal, and molecular structure. Must be taken concurrently with CHM 3412.

#### CHM 3949-CHM 4949 Cooperative Education in Physical Sciences

(5)(F,W,S,SS)

One quarter of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student.

#### CHM 4090L Introduction to Scientific Glassblowing

(2)(F)Basic glassblowing operations with glass tubing and rod are taught. Emphasis is on making and repair of scientific glassware.

#### CHM 4130 Modern Analytical Chemistry

(5)(W) Instrumental methods of chemical analysis, including electroanalytical methods, gas and liquid chromatography, mass spectrometry, x-ray fluorescence, and spectrophotometric methods. Prerequisites: Quantitative analysis, organic chemistry, and general physics.

#### CHM 4130L Modern Analytical

Chemistry Laboratory (2)(W)Laboratory to accompany CHM 4130. Pre- or co-requisite: CHM 4130.

#### CHM 4180 Special Topics in Analytical Chemistry (VAR)

An intensive examination of one or more areas selected by instructor and students.

#### CHM 4220 Advanced Organic Chemistry

(5)(F,S)An intensive examination of the major areas of contemporary organic chemistry. Reactive intermediates, pericyclic reactions, molecular rearrangements, and modern synthetic methods are among the topics investigated. Should be accompanied by a laboratory: CHM 4230L or CHM 4320L.

#### CHM 4230L Organic Structure Determination

(2)(F,S)The qualitative analysis of organic compounds using modern spectroscopic and chemical methods. Prerequisites: CHM 3210, 3210L-CHM 3211, 3211L.

CHM 4300 Bio-organic Chemistry (5)(S)Chemistry of naturally occurring organic compounds of biological importance. The relationship between organic chemistry and the chemical reactions which constitute the living organism.

#### CHM 4310 Special Topics in Organic

Chemistry (VAR)(F) An intensive examination of one or more areas selected by instructor and students.

#### CHM 4320L Research Techniques in Organic Chemistry (2)(F,S)

Practical instruction in the more advanced manipulations and procedures of the modern organic laboratory. This course is designed to prepare a student for research in organic chemistry and is a prerequisite for independent study (CHM 4910L, 4911L, 4912L) in organic chemistry. Prerequisites: CHM 3210, 3210L-CHM 3211, 3211L.

## CHM 4460/PHY 4526 Statistical

Thermodynamics (5)(F) Review of the fundamental laws of thermodynamics applied to simple systems. Elementary kinetic theory of gases applied to diffusion, viscosity, thermal and electrical conductivity. Boltzmann, Fermi-Dirac and Bose-Einstein distribution functions applied in the Boltzmann limit to the calculation of thermodynamic variables. Prerequisites: General chemistry, general physics with calculus and mathematics through Calculus II.

#### CHM 4490 Spectroscopy and Molecular Structure (5)(W)

Molecular structure and its relationship to spectroscopy. Introduction to theory and practical use of uv/visible, infrared, nmr, and mass spectroscopy. For accompanying laboratory, see CHM 4230L. Prerequisite: Competency in organic chemistry is required. Physical chemistry is recommended.

#### CHM 4580 Special Topics in Physical

Chemistry (VAR)(W)An intensive examination of one or more areas selected by the instructor and students.

#### CHM 4610 Advanced Inorganic Chemistry

Atomic structure, periodicity, bonding and structure of inorganic compounds, solution chemistry, ligand field theory, organometallic chemistry, and specific chemistry of the elements. Prerequisites: General chemistry, organic chemistry, and general physics. Physical chemistry is recommended.

### CHM 4680 Special Topics in Inorganic

Chemistry (VAR)(S)An intensive examination of one or more areas selected by instructor and students.

CHM 4910-CHM 4911-CHM 4912 Research and Independent Study in Chemistry (VAR)(F,W,S,SS) The student works directly with a professor on a research project. It is anticipated that the student present the results of the project as a seminar (see CHM 4930). Credit is assigned on the basis of 4 hr/wk of laboratory/library work per 1 hr of credit. It is recommended that the 4 credits required of all BS chemistry majors be taken over.2 quarters. A written report is required.

#### CHM 4930 Senior Seminar (1)(F,W,S)

Each student will make an oral presentation to faculty and other students enrolled in the seminar course. The subject of the seminar may be either a report of results of an independent study project or a survey of the recent literature on an assigned topic.

### CHM 5181 Special Topics in Analytical

(VAR) Chemistry An intensive examination of one or more areas selected by instructor and students.

#### CHM 5250 Organic Synthesis

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.

(5)

CHM 5260 Physical Organic Chemistry (5) A series of topics will be discussed including molecular orbital theory as it pertains to or-

ganic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc.

#### CHM 5280 Natural Products Chemistry and Biosynthesis (5)

Studies of the chemical origins (biosynthesis). properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins.

### CHM 5380 Special Topics in Organic

(VAR) Chemistry An intensive examination of one or more areas selected by instructor and students.

CHM 5440 Kinetics and Catalysis (5)Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prerequisites: CHM 3411 and differential equations

CHM 5517/PHS 5400 Solid State (5)Crystalline form of solids, lattice dynamics. metals, insulators, semi-conductors, and dielectric materials. Prerequisites: General chemistry.

(Continued)

(5)(F)

# **Physical Sciences** V Earth Sciences

general physics with calculus, and mathematics through Calculus 11.

CHM 5581 Special Topics in Physical Chemistry (VAR) An intensive examination of one or more areas

selected by instructor and students. CHM 5650 Physical Inorganic Chemistry (5)

Introduction to use of physical methods to determine structure of inorganic compounds.

CHM 5681 Special Topics in Inorganic Chemistry (VAR) An intensive examination of one or more areas selected by instructor and students.

CHS 4100L Radiochemical Techniques Laboratory (2)(SS) Experiments involving handling, detection, chemical separation and use of radioisotopes. Students must have concurrent enrollment in either CHM 4100 or EVR 5141.

CHS 4100 Radiochemistry (5)(SS) Production, isolation, methods of detection, counting statistics and estimation of radioisotopes. Applications to chemical, physical and biological problems. Prerequisites: CHM 3045-3046, CHM 3120, 3120L and mathematics through Calculus II.

**ISC 4041 Scientific Literature** (2)(W) This course presents a perspective on the scientific literature and scientific documentation. Problems in using and searching the scientific literature will be specifically designed to meet the needs of various disciplines, e.g. chemistry, environmental science, physics, biology. Prerequisites: 20 quarter hours of science.

## **Earth Sciences**

This program is interdisciplinary in nature and provides the background the student will need in professional work or graduate study. While thoroughly preparing the student in the basic sciences, the program also provides a sound knowledge of Caribbean earth sciences. Student and faculty exchanges will be promoted with counterparts in the Caribbean. The student may choose either a Bachelor of Arts program or a Bachelor of Science program in earth sciences.

LOCATION: Tamiami Campus only

#### DEGREE: Bachelor of Arts

This program is for the student who desires a significant background in the earth sciences for a career in science education, or in a public or private agency dealing with problems in the framework of the earth sciences.

LOWER DIVISION PREPARATION:

Required Courses: general biology, physical geology or the equivalent; college algebra, trigonometry, and analytical geometry; general physics; general chemistry.

#### UPPER DIVISION PROGRAM:

OTTER DIVI	STOL TROOLINI.		
	Quarter	Ho	urs
Required Cours	ses:		35
AST 3100	Modern Astronomy	5	
MET 4701	Meteorology	5	
GLY 4650	Paleobiology	5	
GEO 3200	Physical Geography	5	
OCE 3014	Physical Oceanography	5	
EVS 4164	Applied Environmental		
	Geology	5	
or	0.5		
EVR 4211	Water Resources	5	
OCB 3010	Biological		
	Oceanography	5	
	• • •		**
	al Science Electives:		10
PCB 3043	Fundamentals of	-	
	Ecology	5	
GLY 4791	Cartography and	_	
	Geologic Surveying	3	
AST 3025L	Observational		
	Astronomy	2	
Social Science	Electives:		45
ANT 4340	Cultures of the		
	Caribbean	5	
ECS 4433	Economics of the	-	
	Caribbean	5	
ECS 5025	Economic Problems of		
LC5 5025	Emerging Nations	5	
CPO 3323	Government and	5	
010 3525	Politics of the		
	Caribbean	5	
CPO 4327	Topics in Caribbean	J	
CI 0 4527	Politics	5	
	1 On ties		
			90

#### OR

LOCATION: Tamiami Campus Only

DEGREE: Bachelor of Science

This program provides a thorough scientific understanding of the basic sciences required for graduate study or a career in earth, marine, or atmospheric sciences.

#### LOWER DIVISION PREPARATION:

Required Courses: 4 semester hours of general biology; 4 semester hours of physical geology or the equivalent; 4 semester hours of historical geology; mathematics (Calculus I and II); 15 quarter hours or the equivalent, including laboratory, of general physics; 14 quarter hours or the equivalent, including laboratory, of general chemistry.

*Remarks:* The mathematics, physics, and chemistry requirements may be taken at the University.



#### UPPER DIVISION PROGRAM:

	Quarter	Hot	urs
Required Course	es: a minimum of 55		
	f earth science courses is		
	ing at least 35 quarter		
hours of the fol	lowing courses marked		
with an asterisk	::		55
AST 3100	Modern Astronomy	5	
GEO 3200C	Physical Geography*	5	
GLY 3322	Optical Mineralogy*	5	
OCE 3014	Physical Oceanography*	5 5 5 5 5 5 5 5	
MET 4701	Meteorology	5	
GLY 4450	Geophysics	5	
GLY 4315	Igneous and		
	Metamorphic		
	Petrology*	5	
GLY 4401	Structural Geology*	5	
GLY 4650	Paleobiology*	5 5 5	
GLY 4555	Sedimentology*	5	
Other Required			10
GLY 4910	Independent Study	5	
GLY 4791	Cartography and		
	Geologic Surveying or		
	the equivalent	5	
Electives: select	t courses to meet		
particular profe	essional goals.		
Suggestions:	0		27
Natural Science	es:		
OCB 3010	Biological		
	Oceanography	5	
PCB 3043	Fundamentals of		
	Ecology	5	
OCB 5635	Marine Ecology	5	
EVR 4211	Water Resources	5 5 5	
EVR 4311	Energy Resources	5	
	00		
Social Sciences	:		
ANT 4340	Cultures of the		
	Caribbean	5	
ECS 4433	Economics of the		
	Caribbean	5	
ECS 5025	Economic Problems of		
	Emerging Nations	5	
CPO 3323	Government and		
	Politics of the		
	Caribbean	5	
CPO 4327	Topics in Caribbean		
	Politics	5	
			90
			-0

*Remarks:* A grade of C or better in all courses required for the major is necessary for graduation.

# **Physical Sciences** Earth Sciences

#### Minor in Earth Sciences:

*Required Courses:* 30 quarter hours minimum; the following courses are recommended:

GLY 3106	Environmental Earth Science	5
GLY 3157	Elements of Caribbean	
	Geology	5
AST 3100	Modern Astronomy	5
GEO 3200	Physical Geography	5
OCE 3014	Physical Oceanography	5
MET 4701	Meteorology	-5
GLY 4650	Paleobiology	5
GLY 4791	Cartography and	
	Geologic Surveying	5
Certificate in C	aribbean Studies	

A student may earn a Certificate in Caribbean Studies by successfully completing the 30 quarter hours of social sciences coursework listed above for the *Bachelor of Science* program in earth sciences, *or* by completing six other

in earth sciences, or by completing six other Caribbean-related courses from at least two departments. The social science major student in the Car-

The social science major student in the Caribbean Certificate Program may elect up to five Caribbean-related earth science courses toward the six courses required for the Certificate.

Recommended Courses: in sequence:

Geology 5 GLY 4190 Caribbean Earth Sciences Seminar 5 GLY 4792 Caribbean Mineral Resources Field Trip 5	GLY 3157	Elements of Caribbean	
Sciences Seminar 5 GLY 4792 Caribbean Mineral		Geology	5
GLY 4792 Caribbean Mineral	GLY 4190	Caribbean Earth	
		Sciences Seminar	5
Resources Field Trip 5	GLY 4792	Caribbean Mineral	
		Resources Field Trip	5

## **Cooperative Education**

Students seeking the baccalaureate degree in Earth Sciences may also take part in the Cooperative Education Program conducted with the Department of Cooperative Education in the Division of Student Affairs. The student spends several quarters fully employed in industry or a government agency. For further information consult the Department of Physical Sciences or the Department of Cooperative Education.

## **Course Descriptions**

#### **Definition of Prefixes**

AST-Astronomy; EAS-Earth Science, EVS-Environmental Science, GEO-Geography-Systematic; GLY-Geology; ISC-Interdisciplinary Natural Science; MET-Meteorology; OCE-Oceanography; OCG-Oceanography-Geological; OCP-Oceanography-Physical.

AST 3100 Modern Astronomy (5) The structure and evolution of our solar system is studied, with particular emphasis on physical concepts. Topics will include astronomical coordinate systems, celestial mechanics, the earth's motion, and a description of our solar system. Prerequisites: College algebra and geometry.

(5)

#### AST 3213 Modern Astrophysics

An introduction to the structure of stars and galaxies and the evolution of the universe as a whole. Topics will include atomic spectra, stellar classifications, galactic structure, and cosmology. Prerequisites: PHY 3040C-3042C, Calculus I and II and AST 3100.

EVS 4164 Applied Environmental Geology (5) A survey of the geological and geographical factors critical to man's attempt to contend with natural processes. Construction problems, sewers, waste disposal, dams, ground water, and terrain evaluation in relation to the nature of the underlying substratum. Principles illustrated from South Florida and the Caribbean region in particular. Study of the geologic factors involved in future development and growth of these areas, and conservation methods in relation to the geology of these areas. Prerequisites: GLY 3106, GEO 3200C, and a sound background in mathematics, physics, and chemistry.

#### EVS 4164L Applied Environmental Geology Laboratory (1)

Analysis of physical and physico-chemical geologic processes. Identification, control, and correction techniques of landslides, rockfall, subsidence, quicksand, piping and flooding hazards. Corequisite: EVS 4164.

GEO 3200 Physical Geography (5) Survey of the physical environment relevant to studies in regional geography and earth sciences. Natural evolution of landforms, and the interacting processes responsible for these features. Environmental modifications and deteriorations caused by human interaction. Effects of these changes; socio-economic impacts and geographic problems. Case studies illustrated from South Florida and the Caribbean region.

GEO 3122L Physical Geography Lab (1) The use of maps as means of depicting the earth's morphology. The processes responsible for the landforms, and methods to infer the subsurface structure of the earth's crust. Photogrammetry and use of aerial photographs in land evaluation, mapping and as map supplements. Optional for non-science majors. Corequisite of GEO 3200 for science majors.

#### GEO 3510 Earth Resources

Distribution of mineral resources, with special emphasis on metallic deposits. Problems of exploitation and depletion on a world-wide scale; environmental, social, economic, and political impacts; international control and trade. One or two field trips to a mining region expected. No prerequisites.

(5)

#### GEO 4114C Dynamic Geography

Theories and techniques used in modern geographic analyses. Simple correlation and regression. Multiple regression. Surfaces and regions, and the analysis of variance. Non parametric statistics. Factorial analysis and spatial allocation models. Examples emphasize aspects of economic, urban, transportation and social geography in South Florida and the Caribbean area. Prerequisites: GEO 3200 and a sound background in mathematics.

(5)

(5)

GLY 3106 Environmental Earth Sciences (5) A course for non-science majors and those desiring a cultural understanding of the earth sciences. Origin of the earth. Processes taking place in the earth's lithosphere, hydrosphere, and atmosphere which affect man in his environment. Earthquake prediction, pollution control, weather modification on global scales. No prerequisites.

GLY 3157 Elements of Caribbean Geology (5) A survey of the geology of the Caribbean and neighboring regions in view of current data and modern concepts of global tectonics. The course summarizes the important points of Caribbean and Central American geology in their relation to mineral and energy resources; natural environmental disasters, especially seismic zones; agriculture; and the geologic potentials for future development and industrialization.

#### GLY 3215 Mineralogy

Elementary crystallography; fundamentals of crystal chemistry and physical mineralogy. Classification of common economic and rock forming minerals; structure and classification of silicate minerals. Study of geometric and atomic crystal models and principles, and interpretation of x-ray diffraction and fluorescence techniques. Prerequisites: physical geology or equivalent and general chemistry.

GLY 3215L Mineralogy Laboratory (2) Identification of more than 100 common economic and rock-forming minerals, based on their physical properties. Crystal symmetry, symmetry operations, crystallographic calculations, stereographic projects.

GLY 3322 Optical Mineralogy (5) Principles and use of the polarizing petrographic microscope. Optical properties of isotropic, uniaxial and biaxial minerals; solution of optical problems by use of stereographic projections. Prerequisites: GLY 3215 or equivalent.

GLY 3322L Optical Mineralogy Laboratory (2) Identification of nonopaque minerals under the microscope, based on their optical and crystallographic properties, determined from oil immersion/permanent mount methods. (5)

(1)

(5)

(5)

# **Physical Sciences** Earth Sciences

#### GLY 3850 Environmental Geology

The composition and structure of the earth, the internal and external forces acting upon it and the resulting surface features. Case studies and general principles illustrated from South Florida and the Caribbean. Two field trips expected. No prerequisites.

#### GLY 3850L Environmental Geology Laboratory

Study of common rocks and minerals. Study of the various rocks found in South Florida and their environmental importance concerning the availability of fresh ground-water to the region. Study of contour and geologic maps. Optional for non-science majors. Corequisite of GLY 3850 for science majors.

#### GLY 3949/GLY 4949 Cooperative Education in Earth Science (5,5)

One quarter of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluations will be required for each student.

#### GLY 4190 Caribbean Earth Sciences Seminar

Discussion of various topics dealing with geographic and geologic problems involving local, national, and international influence on economic life. Similar discussion will be held on oceanographic problems related to both the aquatic and sea-bed resources. Guest speakers in the earth and social sciences will present lectures pertinent to their respective fields. Prerequisite: GLY 3157, or instructor's permission.

#### GLY 4240 Geochemistry

(5)

(5)

Origin of the chemical elements of common rock-forming minerals. Atomic theory, bond theory, lattice types, the interaction of electromagnetic waves and solids. Crystal chemistry of common oxides, sulfides, and rock-forming minerals. Geochemical cycles presently operating in the earth's atmosphere, hydrosphere, and lithosphere. Case studies in the Caribbean. Prerequisites: Chemistry, physics, mathematics, and a sound background in the earth sciences.

#### GLY 4315 Igneous and Metamorphic Petrology

Petrology (5) Genesis, composition, and classification of igneous and metamorphic rocks. Includes studies of experimental solid-liquid phase equilibria and mineral stabilities of silicate systems. Prerequisite: GLY 3322.

### GLY 4315L Igneous and Metamorphic

Petrology Laboratory (2) Lab techniques concern the description and identification of igneous and metamorphic rocks in hand specimens and thin sections.

#### GLY 4401 Structural Geology

Nature and origin of rock structures and deformations, primary structures, geometry and description of folds, faults, minor structures, cleavage, jointing, lineations, polyphase deformation and structural petrology. Topics in geotectonics and global tectonics with special reference to the Caribbean. Prerequisites: physical geology or equivalent, and a sound background in mathematics.

GLY 4401L Structural Geology Laboratory (2) Interpretation of geologic maps, folds, faults, outcrop patterns, and three points problems. Graphic resolutions with stereographic net and structural analysis.

#### GLY 4450 Geophysics

(5)

(5)

A survey of the different principles and methods of measurements of the physical properties of the earth and the moon; seismic, magnetic, electrical, thermal and gravitational. The implications of the results in terms of the earth's structure, composition, evolution and present state. Case studies illustrated from recent geophysical data from the Caribbean area and Central America. Prerequisites: GLY 3106 and OCE 3014.

#### **GLY 4555 Sedimentology**

(5)

Sedimentary processes in the geological cycles, as illustrated in recent environments. Different groups of sedimentary rocks. Primary and secondary sedimentary structures. Physico-chemical properties and diagenetic processes. Analytical techniques applied to modern sedimentology of both loose and lithified sediments. Prerequisites: Physical Geology or equivalent; Mineralogy; Optical Mineralogy; Paleontology, and a sound background in mathematics and chemistry.

GLY 4555L Sedimentology Laboratory (2) Mechanical analyses, coloration techniques, and heavy mineral separation techniques. Macroscopic and microscopic study of sediments and rocks.

GLY 4650 Paleobiology (5) Development of life as traced through the fossil record. Survey of the main groups of animals commonly found as fossils. Theories of evolution and extinction. Study of the major microfossil groups used in biostratigraphic zonation, and as paleoecologic indicators. Prerequisites: physical and historical geology, general biology, or the instructor's permission.

#### GLY 4650L Paleobiology Laboratory (2) Microscopic study of foraminifera, radiolaria and the diatoms. Study of invertebrate fossils, and osteology of the vertebrates. Corequisite: GLY 4650.

#### GLY 4730 Marine Geology

Survey of the main physiographic provinces of the ocean floor. Modern theories concerning the evolution of the crust; continental drift, seafloor spreading. Distribution and thickness of deep-sea sediments, and their relationship to the morphology and evolution of the crust. Deep-sea mineral resources. Marine geology of the Caribbean from recent data. Sea-bed assessment of mineral resources in the Caribbean and neighboring region. Prerequisites: OCE 3014, GLY 4555 or instructor's permission.

GLY 4730L Marine Geology Laboratory (1) Training in the analysis and interpretation of marine geophysical data. Corequisite: GLY 4730.

#### GLY 4791 Cartography and Geologic Surveying

A three-week course to be offered in the United States or in the Caribbean islands. Instruction and practice in methods of geological mapping using topographic base maps and aerial photographs or plane table. Prerequisite: GLY 4401 or equivalent. Open to majors only.

#### GLY 4792 Caribbean Mineral Resources Field Trip (5)

A three-week field course in at least two Caribbean islands. Cursory review of the geologic factors governing the occurrence, size, and economic value of mineral deposits. Emphasis is on bauxite, copper, and energy resources. Visit to selected regions of active exploitation and processing plants, as well as abandoned mines and potential sites of future exploitations. Prerequisite: GLY 3157 or instructor's permission.

### GLY 4816 Mineral Deposits

Morphology and genetic processes involved in known occurrences of mineral deposits; structural factors governing their size, location and shape. Exploration, detection, and exploitation methods. Emphasis is placed on known and potential mineral deposits of the Caribbean and neighbouring areas. Prerequisites: Physical Geology or equivalent, GLY 3322, and chemistry.

GLY 4816L Mineral Deposits Laboratory (2) Microscopic petrology and petrography of ore samples and interpretation of geologic maps bearing on mineral deposits. Special emphasis is put on the Caribbean region. Corequisite of GLY 4816.

GLY 4910, GLY 4911 Independent Study (VAR)

Individual research under the supervision of a professor in the student's field of specialization or interest. Subject may deal with laboratory work, field, and/or bibliographical work. Field research in the Caribbean is encouraged. Varia-

## **College of Arts and Sciences**

# **Physical Sciences Environmental Studies**

(5)

(5)

(5)

ble credit to a maximum of 10 credits. Permission of the student's advisor is required.

#### GLY 5620 Caribbean Stratigraphic Micropaleontology

Survey of the stratigraphy of biostratigraphic type-sections described in the Caribbean area. Deep-sea stratigraphy from both piston-cores and deep-sea drilling samples. Emphasis is placed on planktonic foraminifera and radiolaria species used as index-species in the equatorial-tropical biozonation typified in Cretaceous and Cenozoic Caribbean sediments. Paleobiogeographic and paleoecologic considerations. Considerable time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GLY 4650, or the instructor's permission.

#### GLY 5793 Caribbean Shallow-Marine Environments

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

#### **GLY 5816 Mineral Deposits** Morphology and genetic processes involved in

known occurrences of mineral deposits; structural factors governing their size, location and shape. Exploration, detection, and exploitation methods. Emphasis on known and potential mineral deposits of the Caribbean and neighboring areas. Prerequisites: Physical Geology or equivalent, OCE 3014, GLY 3322, and chemistry.

GLY 5816L Mineral Deposits Laboratory (2) Microscopic petrology and petrography of ore samples, and interpretation of geologic maps bearing on mineral deposits. Special emphasis on the Caribbean region. Corequisite: GLY 5816.

MET 4301 Dynamic Meteorology (5) Dynamical processes in the atmosphere. Meteorological thermodynamics and atmospheric statics. Scientific bases for modern quantitative and analytical meteorology. Variation of the wind and pressure fields in the vertical. Mechanism of pressure change; behavior of cyclones and anticylones. Dynamic forecasting by numerical methods. Prerequisites: AST 3100, GEO 3200C, and MET 4701.

(5)

(5)

#### MET 4701 Meteorology

The earth's atmosphere and its physical properties. General circulation and thermal structure of the atmosphere on a global and local scale. Physics and dynamics of clouds. Weather analysis and forecasting including temperate and tropical areas, with emphasis on the Caribbean and neighboring areas, birthplace of major Atlantic tropical storms. Reading of weather maps, introduction to meteorologic instruments, transmission and plotting of meteorological data. Recommended preparation: AST 3100, GEO 3200C, and competence in physics and calculus.

#### OCE 3014 Physical Oceanography

A survey of the ocean as a physico-chemical environment. Properties of sea water, and the influence of sea-air interactions on the ocean structure. Water masses and oceanic circulation patterns. Diffusion and advection and their relation to oceanic properties. Heat budget and climatic control. Impact of oceanic properties on man's environment and economy. Case study of a mediterranean sea illustrated by the Caribbean Sea. One field trip to be expected.

#### OCG 6105 Advanced Marine Geology (4) Application of geophysical and geological data to the interpretation of the earth's crust under the oceans, including the data provided by deep-sea drilling, dredging, piston-coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of Atlantic and Caribbean margins, and their potential for oil resources. Prerequisites: GLY 4730, or permission of instructor.

#### OCG 6105L Advanced Marine Geology Laboratory

(1)

Interpretation of geophysical data pertaining to the structure and composition of selected Atlantic and Caribbean margins.

OCG 6280 Marine Sedimentary Petrology (4) Analysis of the genesis, distribution pattern, physical and chemical properties of marine sedimentary facies, with emphasis on deep-sea sediments. Topics include deep-sea diagenetic and lithification processes, their geochemical relationship in time and space. Prerequisite: GLY 4555, or permission of instructor.

### OCG 6280L Marine Sedimentary Petrology

Laboratory (1)Microscopic and geochemical analyses of marine sedimentary facies.



#### OCG 6453 Hydrochemical Reactions in **Coastal Aquifers**

(4) A systematic study of the distribution and origin of the main rock-forming elements, with special emphasis on the geochemical factors involved in the concentration of minor elements in hydrogeological systems of coastal aquifers. Prerequisites: Gen. Chemistry & GLY 3850 or equivalent.

#### OCG 6453L Hydrochemical Reactions in Coastal Aguifers Laboratory

(1)Ouantitative and qualitative geochemical methods of water analyses, and their application to water quality monitoring and conservation.

**OCP 5291 Coastal Processes** Dynamics of estuarine and nearshore circulation. Advective and diffusive processes. Natural and man-induced supply of particulate matter to the coastal region, and the longshore and offshore dispersal of this matter. Waves, tides, periodic sea level changes and their effects on coastal erosion and sedimentation. Coastal management. Prerequisites: OCE 3014 and EVS 4108 or permission of instructor.

OCP 5291L Coastal Processes Laboratory (1) Working methods, including remote sensing techniques and use of oceanographic instruments, in the study of coastal processes.

## **Environmental Studies**

This is an interdisciplinary program, involving eight departments (Physical Sciences, Biological Sciences, Psychology, Political Science, Sociology/Anthropology, International Relations, Philosophy/Religion, and Economics), which prepares students to work in professions with an environmental emphasis. Students may choose either a Bachelor of Arts (non-science) program, or a Bachelor of Science (science) program. Degrees are awarded by the Department of Physical Sciences. For a full description of the degree programs, participating faculty and course offerings, see the separate listing under ENVIRONMENTAL STUDIES.

**Physical Sciences** 

Florida International University

### **Course Descriptions**

#### **Definition of Prefixes**

EVR-Environmental Studies; ISC-Interdisciplinary Natural Science; MET-Meteorology

**EVR 3011 Environmental Science l** (5) A course for nonscience majors, offering an introduction to the fundamental principles and concepts of ecology, and to air pollution and water resources. No prerequisites.

**EVR 3012 Environmental Science II** (5) A course for nonscience majors, offering an introduction to energy resources and conservation, agricultural pollution, noise pollution, and solid waste problems.

**EVR 3013 Environmental Science III** (5) A course for nonscience majors, offering an introduction to the ecology of South Florida through lectures and a series of field trips into several unique ecosystems, such as the Everglades, hardwood hammocks, and coastal regions. The course also deals with natural resource conservation, wildlife management and ecology, and population dynamics.

**EVR 3931 Topics in Environmental Studies (5)** An intensive analysis of several current environmental topics. Recommended for primary and secondary school teachers.

(5)

#### EVR 4021 Survey of Environmental Problems 1

An in-depth study of four or five environmental problems of current interest and continuing significance. The course requires competency at the college introductory level in at least three of the following: biology, chemistry, geology, physics.

 EVR 4022 Survey of Environmental

 Problems II
 (5)(S)

 A continuation of EVR 4021.

**EVR 4211 Water Resources** (5) A seminar dealing with various aspects of water use, water pollution problems, chemistry and ecology of South Florida's waters. General biology is a prerequisite. General chemistry and general ecology are recommended.

**EVR 4231** Air Resources (5) Common air pollutants-their sources and methods of control. Different legislative and administrative approaches will be studied. Prerequisite: General Chemistry.

EVR 4311 Energy Resources (5) Seminar dealing with power and energy production in modern society, fundamental energy relationships of industrial and domestic processes.

EVR 4905 Research and Independent Study (VAR) The student works with a professor on a research project.

**EVR 4920 Environmental Colloquium** (5) An exploration of contemporary ideas on environmental issues. The course brings together faculty and students in a seminar format. Each week a subject will be presented by a faculty member or student and an open discussion will follow.

#### EVR 5061 South Florida Ecology: Field

Studies (3) An introduction to the ecology of South Florida through a series of field trips into several unique ecosystems, such as the Everglades, hardwood hammocks, and coastal regions. No science background required.

#### EVR 5141 Environmental Nuclear Chemistry

Nuclear reactions and the nature of radioactivity. Properties and uses of radioactive isotopes, fission, and fusion. Introduction to reactor technology. Consent of instructor required.

**EVR 5236 Air Pollution Dynamics** (5) A course designed to give an understanding of the fates of atmospheric pollutants. 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 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 (5) An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

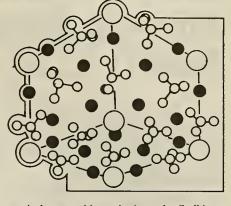
### EVR 5907 Research and Independent

Study (VAR) The student works with a professor on a research project. Variable credit.

EVR 3949/EVR 4949 Cooperative Education in Physical Sciences (5-5) One quarter of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluations will be required of each student.

#### MET 4701 Meteorology

The earth's atmosphere and its physical properties. General circulation and thermal structure of the atmosphere on a global and local scale. Physics and dynamics of clouds. Weather analysis and forecasting including temperate and



tropical areas, with emphasis on the Caribbean and neighboring areas. Reading of weather maps. Introduction to meteorological instruments, transmission and plotting of meteorological data. Competence in physics and calculus is required.

## **Physics**

(5)

LOCATION: Tamiami Campus only

DEGREE: *Bachelor of Science* (\*Students interested in teacher certification see note on page 242.)

LOWER DIVISION PREPARATION:

Required Courses: part of the 90 quarter hours (60 semester hours) of lower division coursework should be in the sciences.

Recommended Courses: algebra and trigonometry; chemistry (10 quarter hours); physics with or without calculus; calculus (10 quarter hours). These courses may be taken at the University, if not completed at the lower division.

UPPER DIVISION PROGRAM:

Major:

K

(5)

	Qı	uarter Hours
Required Course	es:	55
PHY 3123	Modern Physics	5
PHY 4323,	Electromagnetism	10
PHY 4324		
PHY 4221	Classical Mechanic	s 5
PHY 4526	Statistical	
	Thermodynamics	5
or		
PHY 3503	Thermodynamics	5
*PHY 4810L	Senior Physics	
or	Laboratory	5
PHY 4811L		
or		
PHY 4812L		
PHY 4604	Quantum Mechanie	cs 5
Electives in e	xperimental or	
theoretical	physics	15
Math elective	beyond 10 quarter	
hours of ca	lculus	5
Electives:		35

Must include PHY 3040C-3041C-3042C and Laboratory if the equivalent is not taken in the lower division.

## **College of Arts and Sciences**

# **Physical Sciences** Physics

*Remarks:* A grade of C or better in all courses required for the major is necessary for graduation.

#### Minor in Physics:

Two minors are available to students. Track A is designed for the student who plans to take the introductory physics sequence PHY 3040C-3041C-3042C or its equivalent. Track B is designed for the student who plans to take the introductory sequence PHY 3050C-3051C or its equivalent.

		Quarter	Но	urs
Track A:				30
PHY 3040C-P	HY 3041C-			
PHY 3042C	Physics with			
	Calculus		15	
PHY 3040L	Junior Physics			
	Laboratory		2	
PHY 3123	Modern Physics		5	
*Additional app	proved courses		8	
				30
Track B				32
PHY 3050C-	Physics without			
PHY 3051C	Calculus		10	
PHY 3040L	Junior Physics			
	Laboratory		2	
PHY 3123	Modern Physics		5	
*Additional app	proved courses		15	
				32

\*Chosen with approval of physics advisor.

# Master of Science in Physics

The Department of Physical Sciences at Florida International University participates jointly with the Department of Physics at Florida Atlantic University in offering the M.S. in Physics. Students entering the program must have a B.S. (or equivalent), and must satisfy the requirements for admission to the FAU master's program and the FAU requirements for the M.S. in Physics. The degree is awarded by Florida Atlantic University.

## **Cooperative Education**

Students seeking the baccalaureate degree in Physics may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends several quarters fully employed in an industrial or governmental physics laboratory. For further information consult the Department of Physical Sciences or the Department of Cooperative Education.

## **Course Descriptions**

#### **Definition of Prefixes**

AST-Astronomy; ISC-Interdisciplinary Natural Science; PHS-Physics-Specialized; PHY-Physics; PSC-Physical Sciences.

AST 3025L Observational Astronomy

(2) (F) A study of astronomical objects visible from Miami: stars and their constellations, planets, binary stars, star clusters, variable stars, nebulae and galaxies will be discussed and observed.

AST 3050 Modern Astrophysics (5)(W) An introduction to the structure of stars and galaxies and the evolution of the universe as a whole. Topics will include atomic spectra, stellar classifications, galactic structure and cosmology. Prerequisites: PHY 3040C-3042C, Calculus I and II, and AST 3002.

AST 3100 Modern Astronomy (5)(F) The structure and evolution of our solar system is studied with particular emphasis on physical concepts. Topics will include astronomical coordinate systems, celestial mechanics, the earth's motions, and a description of the solar system. Prerequisites: College algebra and geometry.

PHS 4303 Nuclear Physics (5)(S) A treatment of the current state of the nuclear theory problem and a discussion of modern experimental methods.

#### PHS 5125 Seminar in Theoretical

Physics (5)(S) The theoretical foundation of classical mechanics, relativity, fields, quantum mechanics, group theory and relativity.

PHS 5400 Solid State Physics (5)(S) Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, and dielectric materials. Prerequisites: general chemistry, general physics with calculus, and mathematics through Calculus II.

### PHY 3033 Physical Aspects of Unsolved

Mysteries (5)(W) Topics peripheral to orthodox science, such as UFO's, attempts to communicate with alien beings, the theories of Velikovsky, Stonehenge, and psychic phenomena, are presented for discussion. Emphasis is on physical ideas, scientific reasoning, and the interplay between theory and experiment.

PHY 3040C/PHY 3041C/PHY 3042C Physics with Calculus (5-5-5)(F,W,S,SS)

Basic physics sequence for students that have had mathematics through calculus. PHY 3040C will cover kinematics, Newton's laws, conservation of linear and angular momentum, and gravitation. PHY 3041C continues with fluid dynamics, sound, thermodynamics, and optics. PHY 3042C covers electric fields, magnetic fields, and electromagnetic waves. Calculus may be taken concurrently.

PHY 3040L/PHY 3041L/PHY 3042L Junior Physics Laboratory (2-2-2)(F,W,S) Laboratory section of PHY 3040C, PHY 3041C, PHY 3042C. This may be taken separately.

### PHY 3050C/PHY 3051C Physics without

Calculus (F,W,S,SS) Introductory physics for students without calculus. This is a two quarter sequence, which covers most of the material in the PHY3040C-3042C sequence.

#### PHY 3123/PHY 3124 Modern Physics

(5-5)(W,S)

Recent developments in physics are discussed. Subject matter includes: review of classical physics, special relativity, four-vectors, particle aspects of waves, wave aspects of particles, the hydrogen atom, many electron atoms, nuclear instrumentation, nuclear structure, nuclear reactions, elementary particles, introduction to quantum mechanics, and solid state physics.

PHY 3424 Optics (5)(W) General formulation of geometrical optics including matrix techniques, interference phenomena, and the theory of Fraunhofer and Fresnel diffraction, will be among the topics covered.

PHY 3503/CHM 3410 Thermodynamics (5)(F) Same as CHM 3410. Fundamental principles of thermodynamics, the first, second, and third laws, free energy, entropy, the chemical potential, phase rule and its applications. The first in a three-quarter physical chemistry sequence. Prerequisites: general chemistry, general physics with calculus and mathematics through Calculus II.

PHY 3722C Electronics (5)(SS) Including solid state theory and the theory of circuits, circuit operation and design in lecture and laboratory sessions.

PHY 3949/PHY 4949 Cooperative Education in Physical Science (5-5)

One quarter of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation with be required of each student.

PHY 4221 Seminar in Classical Mechanics (5)(W)

Newtonian mechanics including statics of parti-

# **Political Science**

cles, cables and rigid bodies, dynamics of particles and groups of particles in three dimensions, and motion of a rigid body in a plane. A background in general physics is advisable.

#### PHY 4323/PHY 4324 Seminar in

(5-5)(F,W)Electromagnetism The theory of electromagnetic fields and waves is developed from basic principles. Vector calculus, Coulomb's law, Gauss's Law, electrostatic potential, dielectrics, solutions to La Place's and Poisson's equations, magnetic induction, vector potential, magnetic scalar potential, Faraday's law, magnetic materials, Maxwell's equations and propagation of waves in space and various media are discussed. Prerequisite: Calculus.

#### PHY 4526/CHM 4460 Statistical Thermodynamics

Review of the fundamental laws of thermodynamics applied to simple systems. Elementary kinetic theory of gases applied to diffusion, viscosity, thermal and electrical conductivity. Boltzmann, Fermi-Dirac and Bose-Einstein distribution functions applied in the Boltzmann limit to the calculation of thermodynamic variables. Prerequisites: general chemistry, general physics with calculus, and mathematics through Calculus II.

(5)(F)

PHY 4604 Quantum Mechanics I (5)(S)An introduction to the basic postulates of quantum mechanics. Solutions to the time independent Schrodinger equation are obtained for particles in one dimensional potential wells, the hydrogen atom solutions and the harmonic oscillator problem. Prerequisites: general chemistry, general physics with calculus, and mathematics through Calculus II. Multivariable calculus or differential equations recommended.

#### PHY 4750L Introduction to Scientific (5)(W) Instrumentation

The student learns to set up and operate such standard pieces of laboratory apparatus as bridges, amplifiers, oscilloscopes, frequency counters, flowmeters, and thermocouple circuits utilizing chart recorders. A background in general physics is recommended.

#### PHY 4810L, PHY 4811L, PHY 4812L Senior Physics Laboratory (5-5-5)(F,W,S)

Advanced laboratory topics are treated. Modern physics laboratory equipment is used, and the student is introduced to current laboratory practice.

### PHY 4905, PHY 4906,

PHY 4907 Independent Study (VAR)(F,W,S,SS) The student will work under the supervision of

a faculty member on subject material of mutual interest.

#### PHY 4936, PHY 4937, PHY 4938

(VAR) Special Topics In-depth study of topics of special physics interest.

PHY 5250 Physics of Fluids (5)(S)Introduction to the constitutive equations of fluid mechanics. Topics in steady compressible and incompressible flows. Prerequisites: Classical Mechanics and Thermodynamics, or consent of instructor.

#### PHY 5624 Introduction to Physics

Research (5-5-5)(F.W.S.SS) Students are introduced to research techniques by assisting with an original investigation in experimental or theoretical physics.

### PHY 5910 Seminar in Advanced Theoretical

Mechanics (5)(SS)A continuation course in classical mechanics which leads naturally into quantum mechanics. Topics to be covered will include Lagrangian and Hamiltonian methods, variational techniques, Poisson brackets, symmetries, algebra of quantum mechanics, representations, Dirac ladder operations, spin, and the hydrogen atom.

#### PHY 5936, PHY 5937, PHY 5938 Seminar in Special Topics (VAR)

The student will work under the supervision of a faculty member on subject material of mutual interest.

**PSC 3001 Concepts in Physics** (5)(S)Self contained course for liberal arts majors covering the major concepts in physics; necessary concepts of elementary algebra and geometry will be covered in the beginning of the course and used to discuss Newtonian, relativistic, and quantum mechanics and their applications to atoms, stars and the universe as a whole. Throughout the course the dynamic nature of scientific laws will be stressed as new, more general laws are first hypothesized and then used to predict and eventually cross new frontiers of physics.

#### PCS 3351 Earth Physics

The planet earth treated as a physical system. The formation and structure of the earth will be discussed as well as current dynamic changes.

#### PSC 3810 Frontiers of Physics

(5)(F)An introduction on an elementary level to developments in physics in the 20th century. The subjects covered will include relativity, atomic and molecular structure, solid state physics, the laser, nuclear structure, particle physics and astrophysics. For nonscience majors.



## **Political Science Major**

Judson De Cew, Assistant Professor and Chairperson Joel Gottlieb, Associate Professor Joyce Lilie, Associate Professor

Brian Nelson, Associate Professor Mary Volcansek, Associate Professor Mark Rosenberg, Assistant Professor John Stack, Assistant Professor Arthur Svenson, Assistont Professor

A major in Political Science provides students with the opportunity to acquire a broad education that will equip them to adapt to a wide variety of careers. The program for majors is designed to encourage the analysis of theories, institutions, and processes of political systems in the context provided by the social sciences; to stimulate a grasp of the broad sweep of political science as a discipline; to develop a continuing and responsible interest in political activity and public affairs; to provide the opportunity to acquire a fundamental understanding of political science as a basis for citizenship, a career in government, or professional study and service; and to stimulate the qualified student's interest in graduate study in political science.

#### LOCATION: Tamiami Campus Only

DEGREE: Bachelor of Arts

#### LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses:

(5)

	Semester Hours
American Government*	3
State and Local	
Government*	3
International Relations*	3
American or World History	6
Economics	3
Introduction to Logic	3
Advanced Composition	3
Mathematics or Statistics	3

Remarks: The three starred courses in the area of Political Science are particularly recommended. If taken at the lower division level, they will permit the student greater flexibility and depth in his Political Science major at the upper division level.

# **Political Science**

#### UPPER DIVISION PROGRAM:

For a degree in Political Science no specific courses are required. Rather, courses in Political Science must be distributed in the following manner:

Quarter Hours 25 A. Breadth Requirements: One 5-credit course in each of the following fields: American Politics (AP)-this breadth area can be met by one of the following courses: PAD 3003-Politics of Public Bureaucracy POS 3044-Government and Politics of U.S. POS 3153-Urban Politics POS 3424-The Legislative Process POS 3453-Political Parties POS 4413-The Presidency PUP 3004-Public Policy: U.S. JUDICIAL POLITICS (JP) COMPARATIVE POLITICS (CP) **INTERNATIONAL THEORY AND** METHODOLOGY (IP) POLITICAL THEORY AND METHODOLOGY (IP)

- B. Depth Requirements Five courses from any one of
  - Five courses from any *one* of the following areas:
  - a. American/Judicial Politics (AP,JP)
  - b. Comparative/International Politics (CP,IP)

25

90

- c. Political Theory (PT)
- C. Electives: These courses may be taken outside the major but are normally chosen to complement the student's academic and career interests 40

*Remarks:* Students intending to graduate with a degree in Political Science must have a "C" or better in all courses used to fulfill the breadth and depth requirements of the major.

LOCATION: Tamiami and North Miami Campus

#### Minor in Political Science:

Prescribed Courses:

- 1. No required courses
- A minimum of 25 credits in Political Science
- A maximum of 5 credits each in Political Science internships and independent studies may apply to the 25 credit requirements.

PRE-LAW STUDENTS-The Department of Political Science recognizes the interests and needs of the Political Science major who plans to attend law school. The basic skills important to a pre-law student include: (1) thinking logically, (2) reading intelligently, and (3) expressing oneself clearly. Beyond these basic skills,

the department encourages the student to acquire a broad background in political science, rather than to select only courses which deal with public law. Thus the requirements for the major allow the pre-law student to develop a wide comprehension of five major areas within political science and then to achieve greater depth of understanding in one broad area. For most pre-law students, that area may be American and judicial politics. The Department will counsel a student on pre-law school concerns and preparation, as an integral part of the Department's overall advising program. In addition, special opportunities will be available to a student who is interested in participating in judicial internships.

Internships-The Department provides the student with opportunities for work-study experiences in governmental and non-governmental agencies. Five categories of internships are available to students: (1) judicial internships, (2) administrative internships, (3) legislative internships, (4) campaign internships, and (5) international internships. Standards for enrollment as an intern students include:

- Enrollment is by permission of instructor only. A student wishing to enroll as a public affairs intern should consult with the appropriate faculty members and receive written permission to enroll. Ordinarily, specified courses must be taken prior to or concurrent with the internship.
- 2. A political science major may count a maximum of 10 credit hours in internships toward his major. Five additional hours may be counted as electives for a maximum of 15 credit hours in internship in political science.
- 3. All public affairs internships in political science will be on a "Credit-No Credit" basis. For further information. contact the Department of Political Science.

Upper Division Transfer Credit-As a general rule, students will receive transfer credits for junior and senior level courses in political science with a grade of "C" or better. These courses may then be applied to the 50 credit hours requirement for majors in political science.

Major Advising Program-All new majors meet with the Department Chairperson prior to being assigned an advisor. All advisors are members of the political science faculty and meet with students on a regular basis to discuss program design and scheduling matters.

## **Course Descriptions**

#### **Definition of Prefixes**

COP-Comparative Politics; INR-International Relations; PAD-Public Administration; POS-Political Science; POT-Political Theory; PUP-Public Policy.

#### COP 3002 Introduction to Comparative Politics

This course introduces students to research strategies, concepts, and theories of comparative politics. There will be a focus on the three predominant types of modern political systems (democracy, authoritarianism, and totalitarianism), followed by an examination of the current theoretical approaches to studying cross-national political behavior. (CP)

#### CPO 3303 Government and Politics of South America (5)

A cross-national discussion of the political systems and cultures of the Latin American nations, with special emphasis on the larger countries. Attention is given to the role of the military, and to the problem of violence. Designed to give the student an overview of the political life of the nations with whom we share this hemisphere. (CP)

#### CPO 3304 Theories of Latin American Politics

(5)

(5)

This course analyzes the multiple structures, processes, and groups which are relevant to an understanding of Latin American political economy. Of special interest are the political impacts of land and wealth inequality and economic dependency. The dynamics of Latin American politics are considered, with an emphasis on the role of the military and the church. Alternate strategies for modernizing the region are considered. (CP. PT)

#### CPO 3323 Government and Politics of the Caribbean

(5)

Studies the political system of the major British. French, Dutch, and Spanish areas in the Caribbean basin. Attention is focused on such factors as political party democracies in a nonindustrial setting. The paradoxes between modernity and tradition throughout the developing Caribbean, and the relationship between politics, economics, and culture are discussed. The student is helped to understand the dynamics of change in an important area of the world and to compare those dynamics with change in his own country. (CP)

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#### **CPO 3333 Government and Politics of Central** America (5)

This course analyzes the historical and contemporary political dynamics of the five countries of Central America. Special attention is given to problems of development and modernization within the context of the region's economic dependence on the United States. Special attention is given to the problem of political restraints on the modernization process and to those regional arrangements which have been created to solve the area's problems. The student will develop a better understanding of a region which has close ties to the United States. (CP)

#### **CPO 3513 Government and Politics** of China

An intensive examination of the major political institutions of China. A critical analysis of changing aspects of traditional relationships in Chinese political culture, and major reform movements in contemporary Chinese politics. (CP)

#### **CPO 3514 Government and Politics** of Korea

An intensive examination of the major political institutions of South and North Korea. A critical analysis of changing aspects of traditional relations in Korean political culture and major reform movements in contemporary Korea. (CP)

#### **CPO 3553 Government and Politics** of Japan

An intensive examination of the major political institutions of Japan. A critical analysis of changing aspects of traditional relations in Japanese political culture and major reform movements in contemporary Japanese politics. (CP)

#### CPO 3643 Government and Politics of the Soviet Union and Eastern Europe

An intensive examination of the political structures and institutions of the Soviet Union and East European Communist states. Particular attention is paid to the historical and cultural underpinnings of the Soviet regime. The role of the Marxist-Leninist idealogy in shaping policy processes and content is given careful analysis. (CP)

#### **CPO 4005 Topics in Comparative Politics** (Var)

An intensive examination of selected political topics from a cross-national point of view. The subjects will vary, depending upon the desire of both students and faculty. Allows the student to choose topics of particular interest to him or her. (CP)

#### CPO 4034 The Politics of Development and Underdevelopment (5)

This course is an analysis of the causes of development and underdevelopment in Third and Fourth World countries. It includes an analysis of major theoretical approaches to understanding development problems, as well as an analysis of the roles of major national and nonnational actors (CP/IP)

#### **CPO 4055 Politics of Authoritarianism** (5) The purpose of this course is to identify the conceptual and empirical characteristics of authoritarian regimes. An ideal typical authoritarian regime will be established, followed by case study analyses of modern authoritarian systems, like those of Brazil, Mexico, and Portugal. The course is designed to analyze the circumstances giving rise to non-totalitarian modern dictatorships, their political dynamics and their survival capability. (CP)

CPO 4072 Comparative Electoral Behavior (5) Public opinion, voting choice, and electoral patterns from a comparitive and historical perspective. Attention will focus on Western Europe and Latin America. Differences from North American trends and patterns will also be detailed. (CP)

#### **CPO 4103 Government and Politics of** Western Europe

(5)

Studies of political systems of the major European countries on a comparative basis. Attention is focused on such factors as political party systems, the cabinet form of government, and the politics of the Common Market. Considers the implications of the impact of mass society on these nations. Enables the students to better understand the nations which have supplied many of the theoretical foundations of modern politics. (CP)

**CPO 4327 Topics in Caribbean Politics** (5)An intensive examination of selected topics dealing with the Caribbean area. The subjects will vary, depending upon the desires of both students and faculty. (CP)

#### **CPO 4360 Cuban Politics** (5)Examines the course of twentieth century Cuban politics. The course is subdivided into five parts covering the three periods of relatively stable politics and the two major revolutions. (CP)

(5)**INR 3002** Dynamics of World Politics An examination of actors, institutions, and processes in world politics. Attention is given to unfolding transnational institutions and processes, including the role of states, international organizations, and non-governmental actors. An examination of the nation-state system. Attention is given to the use of force in international affairs, as well as those organizations, such as the United Nations, which have an international dimension. The course will aid the student in understanding the complexities of world politics. (IP)

#### INR 3403 International Law (5)

The law of nations, including the laws of war. Includes a discussion of the development of legal norms applicable to the international arena, from both Western and non-Western perspectives. Examines the emerging body of transnational law in social, economic, and technological areas of international relations. Enables the student to understand the difficulties involved in maintaining world peace. (IP, JP)

#### **INR 3502 International Organizations** (5)

An analysis of the factors and problems involved in administering change on a transnational basis. Stress is placed on the difficulty of applying legal norms to the international arena. Attention is given to those organizations, especially the United Nations, which are entrusted with implementing international agreements. Enables the student to understand the difficulties involved in maintaining world peace. (1P)

**INR 3603 Theories of World Politics** (5) An examination of the principal theoretical approaches to the study of world politics. This course surveys traditional, behavioral, and transnational frameworks. The course is designed to provide the student with an analytical basis for evaluating actors, institutions, and processes. (1P,PT)

### INR 4084 Ethnic Conflict in Transnational

**Politics** (5)This course examines the political dimensions of ethnic conflict from a comparative perspective. It evaluates the dynamics of ethnic conflict in Western Europe, Africa, Latin America, and the United States, through a series of case studies. (IP)

**INR 4102 American Foreign Policy** (5)An examination of the legal, administrative, and political structure by which American foreign policies are formulated and implemented. Includes a discussion of the objectives and consequences of United States foreign policy in selected regional, social-economic, and ideological areas. Enables the student to understand the procedures by which foreign policy is made and implemented in the United States. (IP,AP)

(Continued)

(5)

(5)

(5)

(5)

# **Political Science**

**INR 4204** Comparative Foreign Policy (5) This course is an analysis of the development of the foreign policy-making process in the United States, Britain, France, West Germany, and Italy. Particular attention is directed to the domestic and international factors which affect the making of foreign policy. (CP,IP)

INR 4244 Latin America in World Politics (5) This course will be primarily concerned with Latin America's role in the world political system. Of special interest will be the impact of the North-South split on Latin America, and in particular Latin America's relationship to the United States. Key issues of international politics concerning Latin America, including the Panama Canal. will be selected for study. (CP.IP)

#### INR 4407 Political Foundations of International Law

An examination of the interaction between politics and international law, with particular emphasis on such interaction during the present century. The role of international institutions in the modifying of existing international law concepts and the developing of such concepts is also examined. (IP, JP)

(5)

INR 4931 Topics in International Politics (Var) An intensive examination of selected topics with an international dimension. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him or her. (1P)

**INR 4942** International Internship (Var) An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between student and advisor.

INR 5414 Topics in International Law (Var) An intensive examination of selected topics in international law. Subjects will vary (including, for instance, the political dimension of international law) depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him or her.

INR 6007 Seminar in International Politics (5) Graduate seminar on special topic in international politics. Topic to be announced in advance.

#### INR 6205 World Politics

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.

PAD 3003 Politics of Public Bureaucracy (5) An introduction to the political environment of administrative decision-making in public agencies. Special emphasis is placed upon the politics of budgeting, personnel management, organizational requirements, and policy making. (AP)

#### PAD 3803 Urban Government and Administration

A study of the organization, administrative decision-making, and process of urban government; interaction with the political process. This course attempts to provide students with an understanding of the basic structure of urban government and administrative decisionmaking processes. The interaction of bureaucracy with political parties, interest groups, and voluntary citizen association groups will be examined. (AP)

PAD 4944 Administrative Internship (Var) An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between student and advisor.

POS 3001 Foundations of Political Science (5) Introduces the student to the major fields of political science. Attention is given to the concepts, definitions, and terminology used in the discipline. Intended for the non-major. Elective credit only for political science majors.

#### POS 3044 Government and Politics of the U.S.

(5)An examination of the origin and development, structure and operation of the Government of the United States, with an emphasis on the characteristics and political consequences of federalism. Allows the student to develop a better understanding of the political system in which he or she lives. (AP)

POS 3122 State Government and Politics (5) A study of the political processes, structure, and development of state systems. This course attempts to provide the student with an understanding of the basic structure of state government and political processes. (AP)

#### (5)

(5)

#### POS 3153 Urban Politics

An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is placed on how urban problems are identified; and the way proposed solutions are formulated, legitimized, and administered by urban policy-making processes. Includes a discussion of urban

(5)

(5)

political culture. Enables the student to understand major problems confronting communities in urban areas. (AP)

#### POS 3283 The Judicial Process

An introduction to the study of public law. Examines the relationship between politics and judicial structure and process.' Emphasizes the judicial system as a particular kind of policymaking system, and evaluates its strengths and weaknesses from a policy-making perspective. (JP)

POS 3424 The Legislative Process (5)Examines the context and process of legislative decision-making, including the impact of elections, groups, bureaucracies and the norms of legislative behavior. Evaluates legislatures in light of various theories of representation and conflict-management. (AP)

#### POS 3453 Political Parties

(5) Studies the internal structure, political functions, and behavior of modern political parties. Attention is given to the relationships between political parties and various economic, military, ethnic, and regional interests. Enables the student to understand the problems of expressing and structuring political demands to facilitate or obstruct governmental decision-making. (AP)

POS 3603 Constitutional Law: Powers (5)An examination of the basic principles of American government, as defined through constitutional law. Focus will be on the nature of the union, federalism, national government powers, separation of powers, state government powers, and powers of the respective branches of government. (JP)

POS 3604 Constitutional Law: Limitations (5) An examination of the limitations on government as defined by the Supreme Court through constitutional law. Focus will be on the limitations of government with respect to the rights of the individual, of groups, and of the states. Particular attention will be paid to civil rights, civil liberties, the rights of the accused, political rights, and economic liberties. (JP)

# **Political Science**

POS 3703 Methods of Political Analysis (5)An introduction to the principal concepts and techniques of data collection and organization in political science. Includes practical exercise in data collection and organization. Highly recommended for those planning graduate study. (PT)

#### POS 3949 Cooperative Education in Political Science (5)

A student majoring in Political Science may spend several quarters fully employed in industry or government in a capacity relating to the major.

POS 4145 Urban Political Leadership (5)A theoretical analysis and interpretation of urban political leadership, with special emphasis on the structure of political power and the decision-making process. This course attempts to provide students with an understanding of the basic structure of urban political leadership. The attitudes and values of urban political elites will also be examined. (AP)

#### POS 4147 Politics of Urban Jewish Leadership

A study of the leadership structure of the Jewish community, with special focus upon the Jewish elite integration process within the community power structure. The course attempts to provide students with an understanding of the nature of Jewish leadership structure and role of Jewish leadership in the community social and political system. (AP)

(5)

(5)

#### POS 4154 Topics in Urban Politics and Policy

An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimized, and administered by urban policy-making processes, includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas. (AP)

POS 4233 Opinion and Electoral Behavior (5) An examination of the social and psychological factors shaping public opinion and voting choice. Particular attention will be directed to the nature of trends and patterns in electoral results and systemic elements influencing such patterns. (AP)

#### POS 4253 Political Violence and Revolution

An examination of major historical instances and modern expressions of political violence; discussion of revolution from a comparative perspective. Attention will focus on the social origin and political determinants of such events. (CP, PT)

(5)

(5)

POS 4284 Judicial Behavior (5)An examination of various approaches, theories, and findings on the behavior of judicial actors, particularly as it relates to judicial decision-making. The focus of the course will be on judges, lawyers, prosecutors, and other relevant actors in the judicial process. (JP)

POS 4413 The Presidency (5)An examination of the various interpretations of the Presidency. Attention is directed to the role of the President in a technocratic society. Enables the student to understand one of the most visible political institutions. (AP)

POS 4463 Interest Group Politics (5)An examination of the various types of voluntary associations which seek to influence the political process. Special attention is given to the role of private power in a pluralist system. Enables the student to understand the ambivalent American attitude towards pressure groups and lobbying activities in the legislative and administrative arenas. (AP)

### POS 4493 Politics of Judicial

Administration

This course is designed to examine the process of judicial administration, particularly from the political perspective. The politics of selecting judicial personnel, financing, budgeting, disposition of litigation, reorganization, and intergovernmental relations will be included. (JP)

POS 4496 Comparative Judicial Politics (5) An examination of the various modes of dispute settlement and rule adjudication crossculturally. Emphasis is on the similarities and differences of judicial behavior, judicial decision-making, judicial recruitment and judicial powers in cross-national analysis. (JP, CP)

### POS 4713 The Logic of Data Analysis

(5) in Political Science An introduction to the major concepts employed in the analysis of political data. Emphasis is on the logic of explanation rather than the techniques of such explanation. This is not a course in statistical method. Highly recommended for those planning graduate study. (PT)

POS 4905 Independent Study (VAR) By arrangement with the instructor.

POS 4933 Topics in Politics (VAR) Subject matter varies according to instructor.

POS 4935 Honors Seminar (VAR) Subject matter varies according to instructor.

POS 4941 Legislative Internship (VAR) An opportunity for the student to participate in a selected policy area within one of the communties of South Florida. The nature of the work to be accomplished in connection with the intership will be worked out between the student and advisor. (AP)

POS 4944 Judicial Internship (VAR) An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between the student and advisor. (JP)

### POS 4949 Cooperative Education in

**Political Science** (5)A student majoring in Political Science may spend several quarters fully employed in industry or government in a capacity relating to the major.

POS 5606 Topics in Public Law (VAR) An intensive examination of selected topics in the field of public law. The subjects will vary depending upon the desires of students and faculty. (JP)

POS 5909 Independent Study (VAR) By arrangement with instructor.

POS 5934 Topics in Politics (VAR) Subject matter varies according to instructor.

POS 6146 Seminar in Urban Politics (VAR) Graduate seminar on special topic in urban politics. Topic to be announced in advance.

POS 6934 Topics in Politics (VAR) Subject matter varies according to instructor.

#### POT 3013 Ancient and Medieval Political Theory (5)

A study of the major political philosophers of the ancient and medieval periods. Primary emphasis is given to the Greek experience. The nature of political theory as a tradition of discourse is examined. (PT)

POT 3054 Modern Political Theory 1 (5) An analysis of the thought of the great political thinkers since Machiavelli, culminating with the nineteenth century theorists. Basic themes and ideas common to all these political theorists will be discussed in detail. The problem of "modernity" will receive special attention. (PT)

## College of Arts and Sciences

# Psychology

POT 3064 Contemporary Political Theory (5) An overview of the major conceptual frameworks used by political theorists to describe, explain, and evaluate political behavior and processes. Stress is placed on political theory, not only as a basis for inquiry but also as a base for political action. This course enables the student to develop analytical abilities with which to interpret the political events of his or her time. (PT)

POT 4055 Modern Political Theory II (5) An analysis of the thought of the great political thinkers of the late eighteenth, nineteeth, and early twentieth centuries. Primary emphasis is given to the important nineteenth century theorists such as J. S. Mill, Marx, and de Tocqueville. Their theoretical treatment of such modern political phenomena as the masses, bureaucracy, democracy, liberty, and violence is extensively analyzed. (PT)

POT 4113 Politics and The Arts (5) Employs the arts as a tool of analysis for political science. Includes literature, painting, music and film. Special attention is given to the relationship between popular culture and political systems. (PT)

POT 4123 Alternative Political Futures (5) Explores the political dimensions of the future. Examines alternative political systems and institutions from the perspective of political ideas. Special attention is given to assessing current political trends and extrapolating them into the future, (AP, PT)

POT 4204 American Political Thought (5) An examination of American political thought from its 17th century origins to the contemporary period. The continuities and discontinuities in the development of American political ideas since colonial times will receive special attention. (PT)

POT 4302 Political Ideologies (5) An analysis of modern political ideologies since the French Revolution, including liberalism, conservatism, and socialism. Partiular emphasis will be given to Marxism. The contemporary link between ideology and totalitarianism will be examined. (PT)

POT 4930 Topics in Political Theory (VAR) An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty.(PT)

POT 5115 Topics in Politics and The Arts (5) An intensive examination of selected topics in the field of politics and the arts. Subjects will vary, depending upon the desire of students and faculty. POT 5934 Topics in Political Theory (VAR) An intensive examination of selected topics dealing with political theory. The subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her. (PT)

POT 6007 Seminar in Political Theory (VAR) Graduate seminar on special topic in political theory. Topic to be announced in advance.

PUP 3004 Public Policy: U.S. (5) An intensive examination of the theory and practice of formulating, legitimizing, administering, and evaluating public policy. Includes a discussion of the role of administrators, legislators, courts, interest groups and political parties in their processes. Gives the student an analytical basis for understanding and participating in the making of public policy in a variety of policy areas. (AP)

#### PUP 4056 Issues in the Administration of Public Policy

An analysis of the policy consequences of major issues facing political executives and administrators, including planning for the year 2000, bringing government closer to the people, the pathologies of bureaucratization, technology assessment, quantification aids in decision making, needs for policy advice, and experiments in organizational forms. (AP)

(5)

(5)

#### PUP 4203 Environmental Politics and Policy

A systematic examination of environmental policy making, emphasizing the various steps involved in transforming private preferences into authoritative public policies. Special attention is directed at the unique political problems posed by pollution, preservation of natural areas, natural resource management, population dynamics, and ecological imperatives. Designed to enable the student, particularly the environmental studies student, to understand the overlapping policy matrices which constrain environmental action. Also enables the student to identify critical decision points in the environmental policy-making process. (AP)

PUP 4314 American Ethnic Politics (5) This course examines American ethnic politics from conceptual and substantive perspectives. Special attention is devoted to the theoretical dynamics of ethnicity as well as an intensive investigation of Irish, Italian, Jewish, and Black ethnic politics. (AP)

PUP 4323 Women in Politics (5) Examines the role of women in the political system as they act within, and are affected by, politics. Special attention to current and enduring political issues which particularly affect women. (AP)



PUP 4520 Politics of Urban Transportation Decision-Making (5)

A study of urban transportation decision-making processes, with a special emphasis on citizen participation, mobilization of community support for/or against transportation policies, and interaction with local, state and federal officials. The course attempts to provide students with an understanding of the decision-making process with respect to the urban transportation policy planning. (AP)

PUP 5934 Topics in Public Policy (VAR) An intensive examination of selected topics dealing with public policy. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her. (AP)

PUP 6007 Seminar in Public Policy (VAR) Graduate seminar on special topic in public policy analysis. Topic to be announced in advance.

## **Psychology Major**

Gary Moran, Professor and Acting Chairperson Edward Girden, Distinguished Professor Milton Blum, Professor Gordon Finley, Professor Bernard Saper, Professor Marvin Dunn, Associate Professor James Flanders, Associate Professor Fernando Gonzalez-Reigosa, Associate Professor William Kurtines, Associate Professor Janat Parker, Associate Professor Benjamin Algaze, Assistant Professor Patricia Baggett, Assistant Professor Nancy Blaney, Assistant Professor Lee Brownston, Assistant Professor Luis Escovar, Assistant Professor Arthur Flexser, Assistant Professor Paul Foos, Assistant Professor Mary Levitt. Assistant Professor

James Rotton, Assistant Professor

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at least 10

# / Psychology

Vincent Skotko, Assistant Professor Ronald Fisher, Visiting Professor

LOCATION: Tamiami and North Miami Campuses

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: introductory psychology UPPER DIVISION PROGRAM:

- Quarter Hours Specific Required Courses in Psychology PSY 3043C 1. Advanced General
  - Psychology Lecture (2)
- Laboratory (5) Note: Lecture and Laboratory to be taken con-

currently in junior year.

Prerequisites: STA 3122 must be taken before PSY 3043C.

STA 3123 must be taken before or concurrently with PSY 3043C.

> 2. Other advanced laboratory or field experience (eg. CYP 4953, DEP 4704C, SOP 4649, INP 4055C, PPE 4325C, or SOP 4215C)

Note: To be taken during senior year. Prerequisites: PSY 3043C, STA 3122, STA 3123 or permission of instructor.

**Required Courses in Statistics** 1. STA 3122 (5)

2. STA 3123 (3)

Elective Courses in Psychology at least 35 Note: PSY 4693C is especially recommended for the student planning to take the psychology specialty part of the Graduate Record Examination.

Note: COP 3112 is recommended for students planning to enter graduate school.

Elective Courses Outside of

#### Psychology

Distribution Requirements

Each student must take one course from each of the five areas A-E below. Note that, in each area, either a lecture course or a laboratory/field experience will suffice.

Laboratory/Field Experience Options

Area A: Experimental	
EXP 4204	EXP 4404C
EXP 4605	EXP 5055C

•	
PSB 3523C	
PSB 4003	
Area B: Social	
SOP 3004	SOP 4215C
SOP 4522	SOP 4719C
SOP 4525	
SOP 4842	
Area C: Community/Industrial	l/Consumer
CYP 3003	CYP 4953
INP 3002	INP 4055C
SOP 4712	SOP 4649
SOP 4645	
Area D: Personality/Abnormal	L
CLP 3003	PPE 4325
CLP 4144	
EXP 3304	
PPE 3003	
Area E: Developmental	
DEP 3001	DEP 4704C
DEP 3402	
DEP 4164	
DEP 4464	

Remarks: (1) The student is strongly urged to contact the Psychology Department for advisement in curriculum planning; (2) Limited funds are available through the Psychology Department to senior students with demonstrated scholastic ability and financial need; (3) A grade of "C" or better is necessary in all courses required for the major.

Bachelor's degree with honors:

Application must be made and departmental approval granted, before the third quarter of the junior year, to undertake an independent project which must be approved by and carried out under the supervision of a member of the Department. Upon completion of the study, a satisfactory oral defense of the work must be presented to a Department committee.

Note: the bachelor's degree offered in this program is a liberal arts degree and not a professional degree. While it is possible to concentrate courses in one's area of interest, it is not possible at the present time to obtain a "professional specialization" at the undergraduate level in psychology.

## **Graduate Study** Master of Arts in Psychology

The Department of Psychology at Florida International University participates jointly with the Department of Psychology at Florida Atlantic University in offering the M.A. in Psychology. This joint program emphasizes work in General Experimental Psychology. Students entering the program must have a B.A. (or equivalent) and must satisfy the requirements

for admission to the FAU master's program. Students may take part of their course work at FIU and may undertake the research under the supervision of an FIU faculty member. The degree is awarded by Florida Atlantic University. Students in the program must satisfy the FAU requirements for the M.A. in Psychology.

For information, write or call: Psychology Department, College of Science, Florida Atlantic University, Boca Raton, Florida 33431. Telephone (305)395-5100, extension 2582. To apply for admission, write to: Director of Admissions, Florida Atlantic University, Boca Raton, Florida 33431.

## Master of Science in **Community Psychology**

The Department of Psychology currently offers graduate study for the degree Master of Science in Community Psychology. This graduate program provides scholarly, scientific and professional exposures, which are characteristic of both traditional graduate study within the general discipline of psychology, and modern innovative programming within the particular domain of professional psychology practiced in community settings.

The aim of the M.S. program in Community Psychology is to enable students to master three interrelated roles and functions by which the psychologist assists community agencies and groups to be more effective: those of the program evaluator, the human service consultant, and the psychosocial innovator. Students are trained to function as scientist-practitioners. They acquire basic and applied research, intervention, and evaluation skills required of all psychologists. In addition, they are exposed, during the 65 quarter-hours of graduate study, to specific content and methods courses in the main areas of community psychology practice. They engage in appropriate supervised field experiences, and complete a terminal master's project or thesis. They also select elective courses appropriate to their specialty interests in other fields of psychology and/or other units of the University.

The master's program in Community Psychology is, by virtue of its content and field experience requirements, considered a terminal professional degree program. It is expected that most graduates will seek immediate employment and not procede directly to a Ph.D. program. In light of these objectives, students earning the master's degree in Community Psychology are expected to achieve a greater breadth and depth of training than that usually obtained in programs at the master's level.

## **College of Arts and Sciences**

# Psychology

## **Admission Requirements**

*General:* The Florida State University System requires that applicants for admission to graduate study achieve:

- A bachelor's degree or equivalent from a regionally accredited university or college.
- 2. A "B" or better grade point average in all work undertaken while the candidate was registered as an upper division student for the baccalaureate degree, OR a total score (quantitative plus verbal) of 1.000 or higher on the Graduate Record Examination, or an equivalent score on some other measure specified by the University. The Department of Psychology requires that both GRE scores and official transcripts be submitted in order to ensure consideration for acceptance. In addition to these basic requirements, the Department reserves the right to require additional material.
- 3. Applicants should check with the Admissions Office to ascertain current requirements, since the objectives of academic and professional excellence sought by the Department of Psychology, and the intense competition among applicants for the limited number of graduate positions authorized, will result in increasing the effective requirements far beyond the University's "minimum."

Applicants to the program who are not psychology majors may be accepted conditionally until they meet the category I-IV requirements, listed below, early in their graduate career. A *maximum* of 15 quarter hour credits earned in the special student category exclusive of the prerequisite undergraduate courses may be applied to graduate degree requirements.

Undergraduate Courses: These requirements are designed to make certain that students accepted into graduate program have a broad base of dependable psychological knowledge and acquaintance with the basic methodologies upon which the discipline is founded.

CATEGORY I

Satisfactory completion of one upper division course or laboratory course in three of the following areas (or their equivalent) outside the area of graduate specialization. Developmental Social History, Systems, Over-View Differential or Individual Differences (not statistics) Abnormal, Personality Community Industrial

Motivation

CATEGORY II

CATEGORY III

one psychology laboratory course. (Ordinarily this requirement will be made by taking a general experimental psychology laboratory course, such as PSY 3043C or its equivalent.) Satisfactory completion of one basic experimental course from areas such as conditioning, learning. physiological, perception, memory or related areas (can include laboratory course but not general experimental laboratory). Satisfactory completion of introductory statistics.

Satisfactory completion of

CATEGORY IV

## Application Procedures for the Master of Science in Community Psychology

Students seeking admission to the graduate program in Community Psychology must complete the following steps:

- Submit a graduate application for admission to the Admissions Office of Florida International University. 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 of Florida International University. Copies submitted directly by applicants are not accepted for application purposes.
- 3. Submit three recommendations from previous instructors.
- Submit an essay stating reason for interest in the program.
- Submit the results of the Graduate Record Exam (GRE) administered nationally by the Educational Testing Service (Box 955, Princeton, New Jersey, 08540).

## **Degree Requirements**

To be eligible to receive the Master's degree. a student must satisfy (a) all University requirements for a Master's degree and (b) the specific requirements of an approved program of study.

All students in this program of study are expected to complete a 37 quarter-hour core course requirement. This core serves two functions: (1) To provide the student with the skills necessary to interpret and carry out research in the field; (2) to bring together some of the major intervention approaches of applied psychology within the framework of good and ethical practice. The core course sequence includes a 9 quarter-hour field or practicum experience and a master's project of 6 quarter-hours.

In addition to the core, students in Community Psychology are required to complete at least 28 quarter hours of courses, which focus on the major issues relevant to the settings in which community psychology is practiced. Students are expected to take electives either in the department or in other departments as appropriate to their program objectives.

## **Typical Program of Study**

[.	CORE COUR		
	(required of a	· · ·	
	STA 5126	Design of	
		Experiments	
		in	
		Psychological	
		Research	4 credits
	STA 5707	Multivariate	
		Analysis in	
		Applied	
		Psychology	4 credits
	INP 6940	Strategies and	
		Methods of	
		Applied	
		Psychological	
		Research	4 credits
	CYP 5526	Psychological	
		Methods of	
		Program	
		Evaluation	4 credits
	CYP 6936	Current Issues	
		in Community	
		Psychology	4 credits
	CYP 6956	Field	
		Experience in	
		Community	
		Psychology	9 credits
	CLP 5931	Ethical	
		Standards in	
		Psychological	o 11.
	DOLL CORL	Practice	2 credits
	PSY 6971	Master's	
		Project in	( and the
		Psychology	6 credits
			37 credits
			(Continued)

# Psychology

#### ADDITIONAL REQUIRED COURSES (students must take at least five (5) of the following):

following):		
CYP 5535	Psychology of	
	Institutional	
	and Social	
	Change	4 credits
CYP 6536	Principles and	
	Methods of	
	Psychological	
	Consultation	4 credits
CLP 5185	Current Issues	
	in Mental	
	Health	4 credits
CYP 5515	Psychological	
011 0010	Services	
	Administra-	
	tion	4 credits
PSY 5939	Special Topics	· credits
101 5757	in Psychology	4 credits
SOP 5765	Psychology of	4 creates
501 5705	Community	
	Development	4 credits
CYP 5534	Small Groups	4 creans
011 0004	as Change	
	Agents	4 credits
SOP 5616	Social	4 creates
501 5010	Psychology of	
	Organizations	4 credits
DEP 5405	Psychological	4 creates
DEI 5405	Processes of	
	Maturing	
	Adult	4 credits
*NEW	Seminar in	4 creans
COURSE	Community	
COOKSE	Psychology	4 credits
ELECTIVES	J UJ	4 creans
- LLCIIVES		

HI. ELECTIVES

(A student may taken up to 10 credits in other departments or may choose to take these 10 credits in the Psychology Department)

## Grades, Credits, and Course Loads

The optimum recommended course load for full-time graduate students is 10 quarter hours per quarter. The recommended course load for working or part-time students is 5 quarter hours. Approval for exceptions must be obtained from the Chairperson of the Department of Psychology. Course work in which a grade below "C" is earned may not be counted toward the Master of Science degree. All work applicable to the master's degree must be completed within five years immediately preceding the awarding of the degree. A student may receive permission to transfer up to a maximum of 10 quarter hours of graduate credit to the degree program, provided that: 1) the course(s) were taken at the graduate level at an accredited college or university: 2) grade(s) of "B" or better were earned; and 3) the course(s) are judged by the faculty advisor to be relevant to the student's graduate program. Acceptable credit must not have been used toward another degree.

## Academic Warning, Probation and Dismissal

WARNING: A student whose cumulative GPA falls below a 3.0, or who otherwise evidences that he or she is experiencing problems in the program, will be placed on WARNING indicating academic or practicum difficulties.

**PROBATION:** A student on WARNING whose cumulative GPA falls below 3.0 will be placed on PROBATION indicating serious academic difficulty. The Department will then communicate conditions which must be met in order for the student to continue to enroll.

DISMISSAL: A student on PROBATION whose cumulative and quarterly GPA falls below 3.0 will be automatically dismissed from his/her program and the University.

## **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 3003 Personal Adjustment (5) Study of personal adjustment in the social and occupational life of the individual. Emphasis on interpersonal aspects of effective behavior.

CLP 4144 Abnormal Psychology (5)(W,S) Various forms of behavior pathology are examined in the light of traditional and current concepts of mental health and illness. Problems of diagnosis and treatment are discussed. The role of social mores is examined.

#### CLP 4374 Psychotherapy (5) Current approaches to the treatment and improvement of psychological disorders are critically surveyed. Emphasis is placed on the examination of the various techniques of psychotherapy and behavior therapy. Broader strategies of prevention and mental health promotion, like consultation, counseling, and programmed agency services, are also studied.

CLP 5166 Advanced Abnormal Psychology (5) 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 "praticum" assignments if feasible) are covered.

CLP 5175 Personality Dynamics (5)(S) A review of different approaches to the study of personality dynamics and of the related therapeutic modalities. Special consideration is given to psychoanalysis and neo-analytic psychology. Other therapeutic models which influence current psychological thought are also considered. Prerequisities: Successful completion of a course in theories of personality, or equivalent. Permission of instructor.

CLP 5185 Current Issues in Mental Health (5) A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental patients; planning, programming and administering mental health services; political, ethical and legal constraints on the operation of mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisite: Abnormal Psychology, or permission of the instructor.

#### CLP 5931 Ethical Code in

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

#### CYP 3003 Introduction to Community

Psychology (5) (F,S) An introduction to the issues and scope of Community Psychology. Students will be exposed to the development of Community Psychology as a growing discipline. Particular emphasis will be placed on the role of the community psychologists as an agent of social change.

## **College of Arts and Sciences**

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#### CYP 4953 Community Psychology **Field Experiences 1**

(7)(F)Students will be organized into task oriented teams or will work independently in the community, for the purpose of becoming familiar with various community institutions and developing an action plan for assisting institutions in implementing change. Prerequisite: Introduction to Community Psychology.

#### **CYP 5515 Psychological Services** Administration

(4)

(4)

A broad survey of the function of administrative institutions in society, from a psychological perspective. Focuses on the psychological theories, concepts, and practices involved in administration, organization and delivery of human services. Emphasizes prosocial data involved in political functioning and administrative behavior in the public sector. Prerequisites: enrollment in graduate program at F1U; permission of instructor.

#### CYP 5526 Psychological Methods of Program Evaluation (4)

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 setting. Prerequisites: Admission to graduate study in psychology (other graduate students admitted by permission of instructor).

#### CYP 5535 Psychology of Institutional and Social Change

A study of the theoretical basis of and strategies applied to the process of effecting social change in community institutions involved in the delivery of human services.

#### CYP 5954 Community Psychology Field Experiences II (7)(W)

Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences 1.

#### CYP 6536 Principles and Methods of

**Psychological Consultation** (4) An analysis of the basic psychological approaches underlying consultation, with special emphasis on the practical application of the processes of learning, cognition, and interpersonal relations to techniques of consulting with various "target" agencies, individual clients, and other professionals in community settings. Prerequisite: graduate standing at FIU, or permission of instructor.

#### CYP 6936 Current Issues in Community Psychology

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. Prerequisites: Admission to graduate study in psychology (other graduate students admitted by permission of instructor).

(4)

#### CYP 6956 Field Experience in Community

Psychology (VAR) Placement of students in applied settings for the purpose of developing community-based experience in the application of theoretical and methodological approaches. Prerequisites: CYP 5535, CYP 5515, CYP 6936, CLP 5931, STA 5126, STA 5707.

#### DEP 3000 Human Growth and Development: Introductory Developmental

Psychology (5)(F.S.SS) An introductory study of the development of personality, intelligence, and motivation, from childhood to adulthood. Emphasis is on development of cognitive systems through social learning. The full life span of human growth and development will be considered.

#### DEP 3001 Psychology of Infancy and

(5)(F,W,SS) Childhood An introduction to human development focusing on infancy and childhood. Particular attention will be devoted to intellectual, personality, and social development. Consideration will be given to both theoretical and empirical perspectives.

DEP 3303 Psychology of Adolescence (5)(W) An examination of psychological, sociological and biological factors contributing to the changes from childhood to adolescence, and from adolescence to young adulthood.

DEP 3402 Psychology of Adulthood (5)(W) The transition from youth to middle age is studied. Focus is on changing roles in family, work, and societal settings, as these factors influence personality and other aspects of psychological function.

**DEP 4044 Moral Development** (5) (W,S) The course is intended to be a critical survey of psychological theories and psychological research concerning the development of moral attitudes and behavior, and the application of research in moral development to social problems. Emphasis is given to those theories that have generated a substantial body of empirical research. The major theories to be reviewed include psychoanalytic theory (Freud, and the ego psychologists), cognitive developmental theory as it is applied to the development of moral judgment (Piaget, Kohlberg, etc.). and social learning theory (Aronfreed, Bandura, Hill, etc.).

#### DEP 4164 Children's Learning (5)(W)

Learning in infancy and childhood, with particular emphasis on simple conditioning, discrimination shifts, mediation, transposition, observational and concept learning. Prerequisite: Students enrolling in this course should have completed successfully at least one prior course in developmental psychology.

#### DEP 4204 Pediatric Psychology

Aspects of normal and abnormal child care and child rearing are examined. Adult-child interaction in the home and in institutional settings is explored, and common problems of childhood discussed.

(5)

DEP 4213 Childhood Psychopathology (5) Various forms of abnormal behavior in infancy, childhood and adolescence are examined. within the context of traditional and contemporary psychological theory. Problems of differential diagnosis and forms of remediation are discussed.

DEP 4464 Psychology of Aging (5) An examination of the factors which contribute to the psychological profile characterizing old age. Biological and sociological components are considered, and their impact on perceptual, cognitive, and personality processes is analyzed.

#### DEP 4704C Developmental Psychology:

Lecture (2) Laboratory (7)(S)Laboratory/observation exercises illustrative of the concepts and research techniques used in developmental psychology. Particular emphasis is given to cognitive and social-cognitive development. This course is for seniors who have completed PSY 3043C and one developmental psychology course.

DEP 5145 Culture and Childhood (5)(W,S) An examination of cultural and societal influences on children's motor, perceptual, intellectual, and personality development. Extensive readings in cross-cultural research literature serve as the focus for class discussions and independent projects. Prerequisite: Senior or graduate standing.

(4)

(5)

# Psychology

#### DEP 5405 Psychological Processes of the Maturing Adult

An intensive examination of the literature dealing with the maturing adult, with particular emphasis on psychological considerations of career development, intellectual and personality evaluation, changing roles as applied to career choice, deparenting, and preparation for retirement. Prerequisite: Graduate standing. Seniors may be admitted by permission of instructor.

#### EAB 4794 Principles and Theories of Behavior Modification (5)(S)

Studies different approaches to the modification of problem behavior, through the application of learning principles and theories.

#### EAB 5655 Advanced Methods of Behavior Change (5)(F,S)

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. Prerequisities: EAB 4794, CLP 4374, CYP 4144; enrollment in an authorized program; equivalent background; or permission of instructor.

#### EDP 3004 Introductory Educational

Psychology (5)(W,S,SS) An introduction to the ways in which the principles of psychology apply to educational practices, considering aspects of basic processes such as development, learning, individual differences, and adjustment: with special reference to the problems of teacher effectiveness and teacher-student interaction. This course is designed for students who have not had a prior course in educational psychology.

#### EDP 6935 Special Topics in Educational Psychology (VAR)

An intensive analysis of a particular topic in education psychology. Students must have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the School of Education.

**EXP 3304 Motivation and Emotion** (5)(F,W) Introduces several perspectives from learning theory, perception, and personality theory to explore ways in which people move through their physical and social environment.

#### EXP 3652 Psychology of Creativity

An exploration of the psychological processes involved in the act of creation. Several approaches to the understanding of creators and their creations are used, including the study of eminent creative people, and sessions with persons involved in creative efforts. A survey of scientific studies of creation, and personal involvement and introspection by the student.

(5)

**EXP 4204 Sensation and Perception** (5)(F) Basic concepts in sensation and perception are explored, with an emphasis on models of peripheral and central neural processing. Topics such as receptor function, brightness and color vision, movement and object perception, perceptual memory and pattern recognition are considered. Psychophysical techniques, such as subjective magnitude estimation and signal detection theory, are covered.

#### EXP 4404C Human Learning and

Remembering: Lecture (2) and Laboratory (5) (7)(S)

Lectures on the research and theoretical contributions to the understanding of human learning and remembering; and laboratory exercises illustrative of the concepts and techniques used in conducting experimental studies of human learning and remembering. Prerequisite: Advanced General Psychology with Laboratory (PSY 3043C).

EXP 4605 Cognitive Processes (5)(W) Investigation of the mental processing underlying experiences and behavior. Topics include: games, puzzles, and problems; intuitive and creative thought; conceptualization, reasoning and clinical diagnosis; choices and decisions; conceptions of time and space; and thought in abnormal or altered states of consciousness.

### EXP 4934 Current Experimental

Theories (5)(F,S) The stress in this course is on current specific theories determining the nature and direction of the research and interest in the several important areas, such as psychophysics, learning and remembering, developmental patterns and motivation, personality, etc. Topics to be covered will be announced at the beginning of the academic year. May be taken twice for credit toward the major.

#### EXP 5005C Advanced Experimental Psychology: Lectures and Laboratory

Lecture and laboratory course investigating experimental research in the fundamental processes of human behavior. Includes perceptual, cognitive, and linquisitic processes. Prerequisites: PSY 3043C, STA 3122 and STA 3123.

(7)

#### **EXP 5406 Theories of Learning**

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.

#### INP 3002 Introductory Industrial/

Organizational Psychology (5)(F,W) Introduction to the study of behavior in the work environment. Illustrative topics included formal and informal organization, work motivation, satisfaction and performance, leadership, job analysis, selection and performance evaluation, training and development.

#### INP 4055C Industrial/Organizational Psychology Lecture (2) and Laboratorv(5)

Laboratory(5) (7) Students gain experience with the use of psychometric instruments in the areas of job analysis, personnel selection, performance appraisal, job satisfaction, criteria analysis, and management training and development. Prerequisites: Statistics, and Introductory Industrial/ Organizational Psychology, or Personnel Psychology, or Personnel Management, are recommended.

INP 4203 Personnel Psychology (5) Techniques and procedures applicable to the selection, placement, utilization, and evaluation of personnel in organizations are considered. The emphasis will be on empirical procedures, rather than the management function in the personnel area. Topics such as quantitive methods and models for selection, criteria analysis, performance appraisal, management training, and job satisfaction are discussed. Prior course in Statistics strongly recommended.

#### INP 6940 Strategies and Methods of Applied Psychological Research (4)

A practicum course in behavioral research, in which an investigation is planned, carried out, analyzed, and reported. Discussion is directed to single- and multiple-subject research; experimental, quasi-experimental, and non-experimental designs; obtrusive and unobtrusive measures; mathematical and logical tools for analysis of results; computer applications in data collection and analysis, and ethical considerations in research on human populations. Prerequisites: STA 5206 and STA 5707.

# Psychology

LIN 4701 Psychology of Language (5)(W) An overview of the psychology of language and the psychological "reality" of linquistic 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.

LIN 4710 Language Acquisition (5)(S) An examination of the way children acquire language, based on experimental findings from contemporary linquistic, psycholinquistics and behavioral theory.

PPE 3033 Theories of Personality (5)(F,S) An examination of various theories of personality. Consideration is given to traditional and contemporary approaches to personality development.

PPE 3502 Psychology of Consciousness (5) Normal and altered states of human consciousness are analyzed from the perceptual and neuropsychological viewpoint. Broad topic areas include physiologically determined levels of arousal, from deep sleep to intense excitement: selective attention; perceptual plasticity; illusions; sensory depriviation; biofeedback; psychosomatic disease; hypnotism and suggestibility; as well as a critical treatment of the phenomena of parapsychology.

PPE 4105 Humanistic Psychology (5) Studies the methodology, research and findings of the humanistic orientation in psychology. Topics such as counseling, encounter groups, higher consciousness, biofeedback, intentional communities, education, mysticism and religion are examined from the humanistic viewpoint. Prerequisite: Prior completion of a course in Theories of Personality is recommended.

#### PPE 4325C Differential Psychology: Lecture (2) and Laboratory (5) (

Lectures and laboratory field experiences in the principles and methods underlying the administration, construction and evaluation of psychological tests. Practice in the administration and interpretation of selected psychological tests. Prerequisite: STA 3122, or an equivalent introductory course in statistics.

#### PPE 4514 Psychology of Dreams and Dreaming

An in-depth examination of the most important psychological theories of dream function and of the use of dreams in different therapeutic approaches. The current research on the physiology and psychology of sleep is also evaluated. Prerequisite: Theories of Personality or its equivalent.

(5)

#### PPE 4604 Psychological Testing

An introduction to the rationale underlying the use of psychological tests. Topics include basic test terminology, test administration, interpreting standard scores, reliability, validity, tests of intelligence, interest inventories, personality tests, the ethics of testing, and the fairness of tests for different segments of the population.

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PPE 4930 Topics in Personality (VAR)(F,W,S,SS)

Special topics will be announced in advance.

#### PSB 3523C Memory and Memory Improvement

This introduction to human memory considers the topic from a number of points of view. The following issues are addressed: the nature of memory and its phenomena; the capabilities and limitiations of an ordinary and an extraordinary memory; and the skills which can aid an ordinary memory.

**PSB 4003 Introductory Bio-Psychology (5)(F)** A study of the more important psychobiologic correlates of behavior in basic psychological phenomena. Open only to majors in the senior year or otherwise qualified students.

**PSY 3013 Introductory Psychology (5)(F,SS)** Psychological principles underlying basic processes such as perceiving, learning, thinking, motivation and emotions. Students are introduced to theories and research methods in terms of their contributions to contemporary psychology. Note: This course does not count towards the major in psychology. It is designed for non-majors and is a prerequisite for majors who have not had an introductory course in psychology.

#### PSY 3043C Advanced General Psychology with Laboratory: Lecture (2) and Laboratory (5) (7)(F,W,S)

An intensive lecture and laboratory course, designed to present the basic concepts and methods of traditional and contemporary psychology. Emphasis is placed on the role of methodology and experimentation in all phases of psychology. Students study sensory systems. information processing, perception, and other psychological processes. In addition to classroom experience, students participate in laboratory exercises designed to illustrate concepts covered in lectures. The laboratory exercises provides students with an opportunity to develop and use skills and techniques employed in the execution of human psychological experiments, while fulfilling laboratory course requirements in experimental psychology. Note: This course is required of all psychology majors

and must be completed during the first year of residence. Prerequisite: STA 3122. Corequisite: STA 3123.

**PSY 4693C Overview of Psychology** (5)(W) A consideration of the historical origins and developments of modern psychology as a viable discipline, in light of the major influences upon its growth. Prerequisite: 20 quarter hours in upper division psychology courses.

#### PSY 4900 Independent Readings in Psychology

Psychology (VAR) Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their study.

**PSY 4914 Honors Research Project** (VAR) Limited to qualified seniors seeking honors in psychology. Students must submit a research plan and have a research advisor's approval of the research project prior to enrollment in the course. A written report of the research in the A.P.A. publication style must be submitted for evaluation before credit will be awarded.

#### PSY 4916 Independent Research in Psychology

Psychology (VAR) Limited to qualified students who have permission from a faculty member and who present a written proposal for research. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their research.

PSY 4930 Special Topics in Psychology (VAR) Special topics will be announced in advance.

PSY 4931 Senior Seminar in Psychology (2) An advanced seminary for seniors. Analysis of major contemporary trends in psychological theory and research.

#### PSY 4941 Independent Field Experiences in Psychology (VAR)

Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their experiences.

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# Psychology

#### **PSY 5126** Design of Experiments in **Psychological Research**

(4) Reviews the Analysis of Variance, and introduces the student to randomized and blocking designs, factorial designs, fractional factorial, main effects and other plans as they are used in psychological research. Main emphasis is on the rationale behind the several designs, and the techniques for applying these to psychological experiments. Prerequisites: STA 3122 and 3123, or their equivalents.

#### **PSY 5707 Multivariate Analysis in Applied Psychological Research** (4)

Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotellings T<sup>2</sup>, MANOVA, principle component analysis and factor analysis. Prerequisite: STA 3123 or equivalent; linear algebra recommended.

### **PSY 5939 Special Topics in Psychology**

(VAR)(F,W,S,SS) Special topics will be announced in advance.

#### PSY 6971 Master's Project in Psychology (VAR)

Terminal project leading to the M.A. degree, individually designed to meet each student's needs. Constitutes an original approach to a problem related to the discipline, and requires the submission of a final paper or equivalent work. Prerequisites: all required courses for the M.A. must be completed or in progress.

#### SOP 3004 Introductory Social Psychology (5)(F,W)

Introduction to the study of the relationship of the individual to social systems, including topics such as social behavior, attitude development and change, social conflict, group processes, mass phenomena, and communication.

SOP 3724 Psychology of Racism (5)(W) Consideration is given to the nature and development of institutional racism in America. The historical, social, economic and psychological aspects of racism are examined.

SOP 3742 Psychology of Women (5)(F) An examination of women from various perspectives, such as biological, anthropological, mythological, religious, historical, legal, sociological, and psycho-analytical points of view. Discussions of ways in which these various perspectives influence the psychological development of contemporary women.

SOP 3772 Psychology of Sexual Behavior (5) An examination of the nature, development, decline and disorders of sexual behaviors, primarily from the perspectives of normal adjustment and interpersonal relations. Discussion also addresses love, intimacy, and similar emotionally charged sociopsychological topics. Modern and popular treatment approaches-including the "new sex therapies"-are critically evaluated.

#### SOP 3783 Black Psychology

(5) An examination of the social-psychological consequences of being black in America. This course focuses on contemporary black attitude(s) and their relationship to the historical, social and economic realities of the American blacks' sojourn in the U.S. Specific attention is given to the individual and the family, and their attitudes towards the broader social milieu.

#### SOP 3931 Psychology of Giving, Helping and Volunteering (5)

Theories, research data, and community applications of prosocial activities, such as giving, helping, volunteering and altruism.

#### SOP 3932 Psychology of Drugs and Drug Abuse

(5)(W) This course will cover some basic information about the nature and effects of drugs abused, the social and personal dynamics involved in the phenomena of drug abuse and the various rehabilitation programs currently being employed to combat drug abuse.

#### SOP 4015 Social and Personality

Development (5)(W) An examination of the genetic, familial, and societal factors influencing the development of a child's personality and his social behavior.

#### SOP 4215C Experimental Social Psychology: Lecture (2) and Laboratory (5) (7)(S)

The primary purpose of this course is to have students conduct actual social psychological experiments. Lecture material will be secondary to (and in the interest of) allowing students to execute representative experiments in areas such as attitude measurement and change, group structure and communication, etc.

#### SOP 4444 Attitudes and Ethnicity: A Cross-Cultural Psychological Approach (5)

Comparative study of the attitudes and practices of racial and ethnic groups toward each other in a variety of cultural and national settings.

SOP 4505 Theories of Human Relations (5)(S) Research methods and findings on the topic of interpersonal interaction in face-to-face situations. Emphasis on content of research methods and findings, rather than in-class experiences.

#### SOP 4513 Psychology of Conflict

This course examines the psychological factors involved in conflict situations. The focus is on intrapersonal, interpersonal and intergroup conflict resolutions, and the applicability of such resolutions to various conflict conditions. These may include racial or religious conflicts, and even international wars. The course also considers the ultimate disintegration of the individual personality as a result of internalized conflict, and attempts to familiarize students with the psychological factors underlying varying conditions of conflict and resolution.

#### SOP 4522 Social Motivation

Focuses upon those sources of human motivation which are a consequence of man's socialinterpersonal environment and his striving to obtain valued goals. Topics discussed include test-taking anxiety, alienation and affiliation motivation, internal vs. external orientation, achievement motivation, etc. The measurement of social motives and their roots and consequences for behavior are discussed.

SOP 4525 Small Group Behavior (5)(F,W)Introduction to the study of the structure and function of groups, emphasizing the behavior of individuals as affected by the group. The course focuses on experimental evidence concerning such topics as social facilitation, group decision making, phases in group development, physical factors in group behavior, etc.; rather than upon student experience in sensitivity or encounter training.

SOP 4645 Consumer Psychology (5)(F,W)This course addresses the psychological components contributing to satisfaction and dissatisfaction in buying and selling transactions. The consequences of such transactions, as they affect the environment in which we live as well as society in general, are examined. The interface between business, labor, government and the consumer-as all four groups are involved in consumer affairs-is analyzed objectively.

### SOP 4649 Experimental Consumer

(7)(S)

Psychology Using the interactional workshop and objective observational methods, students will be required to conduct original research projects related to solving consumer affairs problems. Laboratory requirements include both on- and off-campus work. The former emphasizes techniques and evaluation. The latter is necessary for the gathering of data.

SOP 4705 Psychology of Social Change(5)(W) An examination of methods of implementing institutional change. Consideration is given to

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# Sociology V

alternatives such as violent vs. non-violent confrontation, and the use of information as an instrument of change.

SOP 4712 Environmental Psychology (5)(W) An introduction to the man-environment interaction, including psychological, sociological and physical aspects.

### SOP 4715 Psychological Influence of Culture

on Learning and Thinking (5)An analysis of the research and theory relating cultural and societal influences of learning and thinking. Consideration is given to the controversies concerning assessment, individual and group differences. Prior course work in developmental psychology would be helpful.

#### SOP 4735 Psychological Aspects of **International Relations and Conflict** (5)(W)

A study of the psychological, especially social, factors in the dynamics of international behavior interactions, which may increase or decrease tensions and conflicts.

SOP 4842 Legal Psychology Particular emphasis will be given to interpersonal courtroom processes. Topics considered included scientific jury selection, proxemics, persuasive argumentation, witness demeanor, eyewitness testimony, and similar influences upon juror decision making. Prerequisite: None.

SOP 5058 Advanced Social Psychology (5)(W) 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.

#### SPA 8401 Disorders of Language in Childhood

(5)(F) This course focuses on failures of children to acquire normal speech and language. The various causes of such disorders, and theories to account for failure to acquire language are considered. Techniques for assessing language disorders in children are evaluated. Students enrolling in this course should ordinarily have completed one course in development psychology.

## Sociology Major

Sociology is part of the Department of Sociology and Anthropology and all information should be obtained from that Department's office.

LOCATION: Tamiami Campus DEGREE: Bachelor of Arts

#### LOWER DIVISION PREPARATION:

Ninety quarter hours (60 semester hours) or the Associate of Arts degree from a community college; work should be pre-Arts and Sciences, or pre-Anthropology or Sociology if such programs exist. If the student does not have an AA degree, his background must reflect an ability to handle advanced academic work.

Required Courses: Introduction to cultural anthropology; or introduction to physical anthropology; or introduction to sociology.

Recommended Courses: (1) other anthropology or sociology courses (2) ecology, economics, geography, history, political science, psychology, (3) arts, biology, English, foreign language, mathematics, philosophy.

#### UPPER DIVISION PROGRAM:

Quarter	Hours
Required Courses:	45
Core Courses:	
ANT 3086 Anthropological Theories	5
SOC 3610 Sociological Theories	5
SOC 3500 Research Methods	5
SSI 3303 Ethical Issues in Social	
Science Research	5
Area Courses: either sociology or	
anthropology	25
Electives: with approval of the faculty	
advisor	45
	90

NOTE: A student with special interests may consult faculty advisors to plan an individualized program of study.

Field Work Experience-A meaningful understanding of anthropology and sociology can best be developed through the interplay between theory and research. Each student will be encouraged to work outside of the formal classroom under faculty supervision.

Minor in Sociology/Anthropology

### Prescribed Courses:

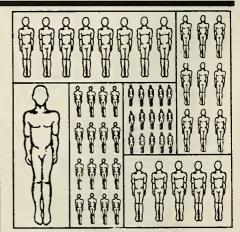
25 credits in the Department of Sociology-Anthropology including the following:

2 courses chosen from among the four core courses required of department majors (ANT 3086 Anthropological Theories, SOC 3610 Sociological Theories, SOC 3500 Research Methods, and SSI 3303 Ethical Issues in Social Science Research).

## **Course Descriptions**

#### **Definition of Prefixes**

ANT-Anthropology; DHE-Demography & Human Ecology; HUS-Human Services; LIN -Linguistics; MAF-Marriage & Family; SOC -Sociology; SSI-Social Sciences-Interdisciplinary.



ANT 3086 Anthropological Theories (5) This course examines the process of theory building and explanation in the social sciences, and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include: Darwin and evolution; Boas and historical particularism; Freud and culture and personality; and Malinowski and functionalism.

#### **DHE 3101 Introduction to Population** Analysis

(5)

An introduction to the study of population analysis. Classifications by age, sex, occupation, or other criteria, and the significance of such data for analyzing major social trends are studied.

#### DHE 3300 Human Ecology

(5) An introduction to the adaptive processes social beings make to their environment, with particular emphasis on spatial distributions of interrelated social facts such as crime rates and population characteristics, or poverty and housing conditions. Current studies on social interrelationships and physical environments are introduced.

#### HUS 4413 Health and Welfare Delivery

Systems (5) A review of the varied systems servicing society's health and welfare needs. Attention is given to the institutional origins of such systems and their propensity for change and modification. Studies reflecting evaluative considerations for such systems are reviewed.

MAF 3210 Marriage and the Family (5)An introduction to the intensive study of the kinship relationship of man known as the family. The family is distinguished from other social units, and behavior variations of this special unit are analyzed and associated with special functions. Contemporary manifestations of the family and the dynamic changes indicated are considered.

MAF 4510 Comparative Family Systems (5) The study of family organization and function in selected major world cultures. Emphasis is given to the inter-relationships of the family, the economic system, urbanization, and human development.

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# Sociology

#### MAF 4511 Studies in Comparative Lifestyles

A problem-oriented course emphasizing the differential behavior associated with categories such as nationalism, social class, income distribution, and political or religious affiliation.

SOC 3000 The Scope of Sociology (5) Introduction to the field of sociology, with particular emphasis on scope and limitations. Basic but major divisions of the discipline are introduced. Vocabulary, conceptualizations, research approaches and vocational opportunities are reviewed. The relationship of theory and empirical study is stressed. (Also recommended for non-majors.)

SOC 3001 The Basic Ideas of Sociology (5)The course introduces the student to the ideas of community, authority, status, alienation, and the sacred, as used in sociological literature.

SOC 3020 Social Problems (5) An introduction to the concept of a social problem and the approaches used to understand more fully the total dimensions of some specific problems. Special emphasis is given to clarifying one's understanding of the underlying nature of selected social problems, an analysis of those aspects amenable to remedy, and an inventory of the knowledge and skills available.

#### SOC 3110 Social Deviancy

(Deviant Behavior) (5) The study of behavior that counters the culturally accepted norms or regularities. The social implications of deviancy are reviewed, and theoretical formulations regarding deviant behavior are analyzed.

### SOC 3130 Delinquency

(5)An analysis of behavior which is extra-legal, with major concentration on its appearance

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among young people (juveniles) and society's response. Particular emphasis is given to the dynamic thrusts being made in establishing juvenile rights as a distinct part of human or civil rights.

#### SOC 3150 Criminology

An introduction to the study of criminal behavior, its evidence in society, society's reaction to the subjects involved, and the current state of

SOC 3201 Social Institutions/Organization (5) An introduction to more formalized behaviors that tend to provide accepted, orderly, and enduring procedures for groups which have more than narrow interests, and which perpetuate themselves. These institutionalized ways of behavior are associated with specific institutions and studied comparatively.

theoretical thought on causality and treatment.

#### SOC 3281 School and Society

A specialized course dealing with the place of schools (particularly public) in society, the import of social criteria for school personnel, and the influence of such criteria on educational processes within the school system (institution).

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#### SOC 3300 The Community

The social group known as the community is identified and analyzed for its distinctive qualities. By distinguishing it from other social groups, its dominating force on the behavior of its members is isolated. Attention is given to the interaction of individuals and groups as they exist within the community.

SOC 3380 Community Sociology Courses (5) Special courses dealing with community programs such as Model Cities, voluntary organizations, United Fund, inner city schools, public service agencies. Faculty members come from community agencies, and course work focuses on local problems.

#### SOC 3402 Social Change

(5) The study of major shifts in focus for societies or culture, and the indicators associated with such changes. Particular attention is given to the development of industrial societies and the dynamics involved for nations emerging from various stages of "underdevelopment".

SOC 3424 The Social System (5) The study of society as a system, the benefits of such a conceptual approach, and related theoretical constructs.

#### SOC 3500 Research Methods

(5) An introduction to the scientific method and its application to anthropological and sociological research. Topics include: formulation of research problems; research design; field methods and collection of data; hypothesis testing and interpretation of results.

#### SOC 3610 Sociological Theories

Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists, with respect to their methodologies, treatment of the emergence and consequences of modern society, political sociology, conception of social class, and analysis of the role of religion in society. The student is expected to gain in-depth knowledge of opposing theories, as well as an appreciation of the contingent nature of sociological theories.

#### SOC 3820 Small Groups

Survey of small group studies, their development and the associated theoretical schools of thought. The significance of small group studies for social theory is evaluated.

SOC 3828 Human Interaction Laboratory (5) Laboratory designed for those persons seeking to increase their effectiveness in task-oriented problem-solving work groups. It explores processes for personal growth and development and human group interaction.

#### SOC 3830 The Individual in Society (5)Introduction to the study of the individual as a social being, with particular emphasis on man's social origins, human perceptions, and the interaction of the individual and the group within society.

#### SOC 3850 Collective Behavior

The study of human behavior as found in relatively unstructured forms, such as crowds, riots, revivals, public opinion, social movements and fads. The interplay of such behavior and the rise of new norms and values is analyzed.

#### SOC 3949 Cooperative Education in Social Sciences (5)

A student majoring in one of the Social Sciences (Economics, International Relations, Political Sciences, Sociology, or Psychology) may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

SOC 4002 Basic Assumptions of Sociology (5) An analysis of the basic assumptions underlying the different perspectives in sociology and anthropology.

SOC 4003 Sociology of the 20th Century (5) An examination of the sociological implications evident in the events of our modern world. Heavy reliance is placed on intellectual materials other than social science, especially literature.

SOC 4004 Sociology Through Film (5) Popular and documentary films as data for the analysis of various sociological problems.

SOC 4211 Sociology of Religion (5) The study of religious institutions, their structure and function in various societies. Leadership qualities, participation and practices, and the relationship of religious institutions to other social institutions are studied.

#### SOC 4214 Seminar in Religion as a Social Institution (5)

An upper-level seminar in which two or more religious systems are compared in terms of their social origins and social-political consequences. Emphasis on the socio-economic-political impact of particular religious institutions such as the Black church in the United States, revitalization movements among Third World peoples, etc.

# Sociology

#### SOC 4221 Political Sociology

The underlying social conditions of political order, political process, and political behavior are explored. Examples are drawn from empirical and theoretical studies of power, elites, social class and socialization.

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SOC 4230 Sociology of Medicine (5)The social organization of medical institutions and the social factors associated with incidence of physical/mental illness and its treatment. Opportunity available for students to pursue specialized interests related to public needs and medical services.

SOC 4243 Sociology of Death (5)An introduction to "death" as social phenomenon. Attention given to various approaches which systematically study death, with primary emphasis given to the sociological approach. Major attention is given to an exploration of attitudes toward death, and an assessment of the implications for the respective groups involved.

SOC 4251 Therapy as a Social Institution (5) An analysis of psychotherapy from the sociological perspective. The effect of therapy on society and its functioning in society are analyzed. Comparable institutions in other societies are examined.

SOC 4265 Man, Society and Technology (5) The study of contemporary society, man's role in it, and effects of technological change. A study of interrelationships, with special attention given to vocational study and instruction within the framework of the relationships perceived.

SOC 4271 Sociology of Science (5)A sociological analysis of the generation, development, and consequences of science as a social institution.

SOC 4301 Community Organization (5)An intensive study of how communities are organized, with special emphasis on the interactive processes of the varied components of a community. Special study, permitting students to concentrate on interest areas, is required.

#### SOC 4310 Urban Sociology

Study of the urban community, with particular attention to the problems associated with urban life. The development of urban societies is reviewed historically, and factors associated with this development are identified.

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SOC 4320 Rural Sociology

The study of agrarian society, pre-urban, precity societies. Distinctive factors associated with such social life are identified; and particular attention is given to defining indicators associated with rural society.

#### SOC 4331 Latin American and Caribbean Social Structures

Exploration of the types of social structures. statuses, and roles, and the resulting distributions of power and authority in the hemisphere.

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#### SOC 4406 The Problem of Bureaucracy in The Modern World

(5)The course deals with the micro-sociological problems of the internal organization of bureaucracies; the relation between bureaucracy and personality; the macro-sociological problems of the emergence of the bureaucratic form; bureaucratization and contemporary life; general problems of affluence; meaningless activity; ways to beat the bureaucracy; and bureaucracy and atrocity.

#### SOC 4407 Macro-System Change Laboratory

(5)This laboratory uses a macro-systems approach to develop an understanding of human behavior and processes of social change operating on organizational, institutional, community and national levels.

SOC 4408 Heroic Elites (5) A seminar devoted to attempts by selected Third World leadership groups to resolve perceived problems of underdevelopment and imperialism. Ideological justifications for such activities are analyzed. Prerequisites: ASC 3610 (SOC 4003, SOC 4613 recommended). Permission of instructor required.

SOC 4410 Social Stratification (Mobility) (5) The study of society structured hierarchically with particular attention to the form and content of the various levels. Problems in the social order and differential human behaviors associated with stratification are analyzed.

SOC 4423 Comparative Social Systems (5) The study of varied social systems, particularly as to those qualities regularly occurring in each and those which differ. Such variables are then analyzed for associational correlates to the systems studied.

## SOC 4440 Social Conflict The study of conflict in society and its place in

social relationships. A study of causes and resolutions, with particular emphasis on methods of resolution and their influence on social change.

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SOC 4463 Imperial Development (5)A seminar devoted to study of the relationship between colonialism and development in the contemporary Third World. Prerequisites: SOC 3010 (SOC 4003, SOC 4613 recommended). Permission of instructor.

#### SOC 4464 Sociology of the Underprivileged Societies (5)

An examination of the various theories concerning what is happening in the "underdeveloped world." The political, social, and economic events of these societies are subjected to sociological analysis.

#### SOC 4475 Seminar in Ethnicity (5)

An upper-level seminar, stressing a comparative sociological approach to the study of two or more racial-ethnic groups. Emphasis on the interrelations of ethnic communities within the same society and the socio-political effects of these interrelations. Prerequisite: Minorities. SOC 4745, or permission of Dept.

#### SOC 4480 Sociology and Social Planning

An analysis of sociological concepts, and their application to planning processes of society and its sub-units. Planning processes are critically reviewed for evidences of such application. Both micro and macro planning processes are correlated to specific sociological units of analvsis.

#### SOC 4490 Area Studies: Social Structures and Problems (5)

Special courses on the social structures and related problems of specific geographical and cultural areas. To be offered at varous times.

#### SOC 4504 Basic Research Design (5)

Advanced course in social research, providing research practicum for studying patterns of human behavior: analyzing findings of studies. methodical and analytical procedures; reporting and explaining these results; and applying these inferences to concrete situations. Also acquaints the student with the use of computers in research in the behavioral sciences.

#### SOC 4540 Historical Sociology

(5)The authenticity and meaning of historical data for sociological research. Systematic theories in history are analyzed for their utility in sociology. Particular emphasis on the sociological uses of the comparative method in history.

#### SOC 4550 Seminar in the Social Scientist's (5) Ethics

An upper-level seminar emphasizing ethical considerations of import to the peculiar role and function of sociologists and anthropologists. Special attention to the interrelation of specific social scientific studies and their moral consequences, domestic and international. Prerequisite: SSI 3303.

#### SOC 4610 The Classical Tradition in Social Theory (5)

An examination of the classical theorists in sociology-included are Marx. Weber, Durkheim. Pareto, Toonies and Freud.

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# Sociology

#### SOC 4611 Advanced Social Theory

An analysis of various classical and current sociological theories, with particular attention paid to their conceptions of man in society and the wider implications such conceptions have. The theories of Durkheim, Parsons, Weber, Goffman, Bendix and Dahrendorf are examined.

#### SOC 4613 Social Theory and Third World Innovations (5)

An examination of the contributions to social theory by intellectuals of the Third World. Particular attention is paid to theory derived from classical Marxism.

**SOC 4620 Comparative Sociology** (5) A cross-cultural and cross-national survey of sociological studies, with particular emphasis on theoretical and methodological issues. Examples will be drawn from studies on culture patterns, social structures, sexual mores, power relationships and the ethical implications of cross-national research.

#### SOC 4640 Intellectual Precursors of Sociology

Sociology (5) An analysis of social ideas from which sociology emerged. The ideas of Aristotle, Hobbes, Rousseau, and Marx, among others, will be discussed as contributions to the emergence of sociology.

SOC 4652 Sociology of Sociology (5) An analysis of the discipline of sociology and anthropology, using the tools developed by

those disciplines themselves. The political, social and economic contexts of the field are examined to see how the discipline is used, for what advantages, and to what effect.

SOC 4653 Sociology of Utopia (5) An analysis of Utopian thinking in sociology and anthropology, as well as the sociological implications of Utopianism.

#### SOC 4705 The Role of Women in Contemporary Society

Contemporary Society (5) A concentrated study of women in society, addressing role origins and their development in contemporary society. Particular attention given to how such behaviors become normalized and the rapidity with which they change.

SOC 4741 Comparative Slave Societies (5) A comparison of the structure and function of slavery as found in different areas of the world and at different periods of history.

### SOC 4745 Minorities/Race and Ethnic Relations

Relations (5) The study of social groups identified by racial or ethnic characteristics. Particular emphasis is given to the role of minorities in society, and the interactive process resulting from their contact with the majority. Social behaviors of minorities are reviewed and related to institutional structures and their accepted norms.

#### SOC 4746 Social Conflict in Multi-Ethnic Societies

Cases are selected from a variety of societies with differing types of majority-minority situations. Prejudice and discrimination are seen as weapons in group and class conflict. The consequences of prejudice are analyzed in terms of the costs to every group in the society.

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### SOC 4829 Ethnomethodology

The analysis of practical, everyday actions and circumstances as a means of reaching a logical and common sense knowledge of social structures.

### SOC 4833 Role Theory

An analysis of the relation between man and society, from the perspectives of role theory. The course explores the effect society has on individual biography and action.

**SOC 4835 Clinical Sociology** (5) The problems of alienation, anomie, and happiness will be analyzed. A third position between social work and social change will be sought. Personal adjustment, social revolution, and individual calculation will be weighed as responses to the demands of social life.

## SOC 4841 Mass Culture

Analysis of the social, political and cultural impact of mass communications.

## SOC 4842 Symbols and Society

An analysis of the effect of culture on the individual and on society. The roles of popular and intellectual culture will be examined.

**SOC 4905** Directed Individual Study (VAR) Supervised readings and/or field research and training. May be repeated.

SOC 4931 Honors Seminar Permission of instructor required.

#### SOC 4941 Directed Field Research (VAR) Permission of instructor required.

SOC 4949 Cooperative Education in Social Sciences (5)

A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend several quarters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

#### SOC 5140 Sociology of Law and Legal Processes

An examination of the role of law and of legal institutions in American society. Included are

such topics as the use and/or misuse of the legal process for conflict resolution and as agents of social change.

SOC 5255 Sociology of Mental Health (5) A concentrated study of mental illness, with particular emphasis on definitional conceptualizations and the relationship of such to incidence data. Includes study of the social factors on the etiology of mental disorders and the epidemiology of such illnesses. Family effects of mental illness discovery and treatment are assessed, and mental health programs and their effectiveness are reviewed.

### SOC 5261 Industrial Sociology (5)

Concentrated study of industrialization and the sociological theory involved. Manpower, unemployment, apprentice programs, and classificatory schemes are studied.

#### SOC 5264 Conflict Resolution: Society and Labor (5)

A concentrated study of conflict as evidenced in labor's relationship to society. The development of methods of resolution, and an assessment of prevailing approaches. Attention is given to the historical roots of labor's development as a distinct social entity, and the tensions precipated within different societies and their varied economic and political systems.

SOC 5284 Sociology of Education (5) An analysis of education as a social process and the interrelationship of educational systems and society. The study of education as a socialization process; the social structure of education, and its role as an agent in social change.

SOC 5316 Advanced Urban Sociology (5) A concentrated study of urban problems. Emphasis given to social policy and the role of public and private agencies in sustaining, administrating, and changing such policy. Urban problems are studied as an intermix of social, cultural, political, and economic factors. Methods of social cost analysis are discussed.

**SOC 5656 Sociology of Knowledge** (5) 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.

SOC 5909 Directed Individual Study (VAR) Supervised readings and/or field research and training. May be repeated.

 $\mathbf{72}$ A&S

## **College of Arts and Sciences**

# VisualArts v

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

SSI 3010 Introduction to Social Science (5) An introduction to anthropology, psychology, and sociology; a survey of the similarities and differences in history, philosophy, and goals and techniques of research in these disciplines; and a review of modern interdisciplinary efforts.

#### SSI 3303 Ethical Issues in Social Science Research

An introduction to the problems of possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Case studies involving issues such as nation building in areas of accelerated change including Africa and Asia.

## Visual Arts Major

Francis Wyroba, Professor and Chairperson William Burke, Associate Professor James M. Couper, Associate Professor Ellen Jacobs, Associate Professor R. F. Buckley, Assistant Professor Richard Duncan, Assistant Professor Barbara Forbes, Assistant Professor William Maguire, Assistant Professor

LOCATION: Tamiami Campus Only DEGREE: Bachelor of Fine Arts LOWER DIVISION PREPARATION:

Required Courses: 6 semester hours of art survey or departmental exam; 6 semester hours of design or acceptable portfolio; 6 semester hours of drawing; 6 semester hours of beginning studio.

Recommended Courses: painting, sculpture, printmaking, ceramics, photography, weaving, cinematography.

Remarks: The student who does not have an A.A. degree and/or who lacks proficiency in required courses will be expected to take more than 90 quarter hours to complete the bachelor's degree, or to make up courses at the lower division level.

UPPER DIVISION PROGRAM:

Quarter	Hours
Required Courses:	60
ARH 4470 (Contemporary Art)	5
ARH 4800 (Criticism)	5
Art History Elective	5

Studio Major	25
ART 4955 Thesis and Portfolio	5
Studio Electives	15-35
Electives:	1030

Remarks: A grade of "C" or better in all courses required for the major is necessary for graduation.

## **Course Descriptions**

Definition of Prefixes

(5)

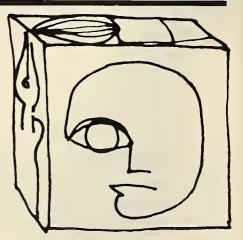
ARH-Art History; ART-Art; HUM-Humanities.

ARH 3009 Survey of Contemporary Art (5)A survey of the most recent developments in the fields of visual arts and architecture, through lectures, films and speakers. Open to all students.

ARH 4170 Greek and Roman Art (5)Lectures, slides, visitors and student research. ARH 4301 Renaissance Art (5)Lectures, slides, visitors and student research. ARH 4410 Modern Art (5) Lectures, slides, visitors and student research. ARH 4431 Nineteenth Century Painting (5) A study of the various challenges offered artists at the beginning of the nineteenth century, and of subsequent solutions created by painters in America, England, France, Germany and Italy. Styles such as neo-classicism, romaticism, realism, eroticism, pre-rephaeliticism, luminism and impressionism will be examined. ARH 4470 Contemporary Art (5)(F) Lectures, slides, visitors and student research. ARH 4552 Art of China and Japan (5) An introduction to the art of China to the Ming Dynasty, and of Japan through the 18th century. The emphasis will be on painting and sculpture, with some ceramics and architecture. ARH 4610 American Art (5)Lectures, slides, visitors and student research.

ARH 4800 Theory and Criticism (5)(W) Examinations, films, lectures and slides.

**ARH 4905 Directed Studies** (VAR) 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 quarter before course is offered. (May be repeated.)



ARH 4910 Research (VAR)(F.W.S.SS) Art history, criticism, and theory in areas not covered by the present program and which the student wishes to study. (Permission of instructor required. May be repeated).

ARH 4931 Women and Art	(5)
Women in the history of art; past, prese	
future. Slides, lectures, films, panels and	discus-
sions.	
ARH 5172 Greek and Roman Art	(VAR)
See ARH 4170	
ARH 5303 Renaissance Art	(VAR)
See ARH 4301	
ARH 5412 Modern Art	(VAR)
See ARH 4410	(
ADIL 5422 Ni star al Castan	
ARH 5432 Nineteenth Century Painting	(VAR)
See ARH 4431.	(VAR)
	au n
ARH 5470 Contemporary Art	(VAR)
See ARH 4470	
ARH 5555 Art of China and Japan	(VAR)
See ARH 4552	
ARH 5615 American Art	(VAR)
See ARH 4610.	
ARH 5812 Theory and Criticism	(VAR)
See ARH 4800	
ARH 5907 Directed Studies	(VAR)
See ARH 4905	()
ARH 5913 Research	(VAR)
See ARH 4910.	(VAR)
ARH 5931 Women and Art	(VAR)
See ARH 4931.	
	V,S,SS)
A beginning course for art and non-art	
Fundamentals of throwing, hand building application (May be repeated)	ng, and
glaze application. (May be repeated)	

ART 3133C Fabrics and Fibers (5)(F,W,S)A creative approach to fabrics and fibers, using processes such as dyeing, embroidery, quilting, soft sculpture, batik, on and off loom weaving, etc. (May be repeated).

# Visual Arts

ART 3150C Jewelry and Metals(5)(F,W,S,SS) A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore the more difficult technical aspects of areas such as hollow ware, enameling, casting, and stone setting. (May be repeated).

**ART 3163C Glass Blowing** (5)(W,S)A basic course in off-hand glass blowing, concerned with preparing, forming, and finishing glass; understanding of glass as an art form; operation and maintenance of a glass studio. (May be repeated).

ART 3310C Drawing (5)(F,W,S)Drawing will be considered as an essential part of every art student's curriculum. Depending

on his lower level work, a student will be encouraged to take at least one drawing course at the University. Off-campus studio work may be arranged. (May be repeated).

ART 3331C Figure Drawing (5)(F,W,S,SS)Drawing from the model during assigned studio time. Open to all students (May be repeated).

(5)(F,W,S)ART 3401C Printmaking With a knowledge of basic intaglio and relief printing, the student will explore specific media such as etching, lithography, silk-screen, and other experimental techniques. (May be repeated).

**ART 3510C Painting** (5)(F,W,S,SS)A study, through the use of visual aids and individual criticism, of the student's work. Any media may be used (May be repeated).

ART 3601C Photography (5)(F,W,S,SS)With a knowledge of beginning developing, printing, and use of a camera, the art student will pursue his own direction with emphasis on individual approach, print quality, use of equipment, and criticism. (May be repeated).

**ART 3630C Introduction to Filmmaking** (5) For the beginning student of filmmaking. Survey of the origins and development of cinematography as an art form. Presentation and technical analysis of selected films.

ART 3631C Film Production 1 (5)Conceptual study of total filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined from the point of view of the director. Student will conceptualize, shoot and edit a short film. Prerequisite: ART 3630, or permission of the instructor. (May be repeated.)

ART 3651C Video Art Studio experience in conventional and experi-

mental video processing, with an emphasis on relating contemporary developments in art theory and criticism. An international exchange video tape bank and color-capable television facilities will be available (May be repeated.)

ART 3702C Sculpture (5)(F,W,S,SS)With a background in beginning sculpture, the student will develop standards of excellence, both in concept and technique, with stress on individual expression. An equipped shop will be available to the student. (May be repeated.)

ART 3904C Directed Study (VAR) A group of students, with the approval of the Art 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 quarter before course is offered. (May be repeated.)

**ART 3905C Research** (VAR)(F,W,S,SS) 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 3949C Cooperative Education in Visual Arts

(5) A student majoring in Visual Arts may spend several quarters fully employed in industry in a capacity relating to the major. Must have permission of chairperson.

**ART 4114C Ceramics** (5)(F,W,S,SS) 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 4133C Fabrics and Fibers	(5)(F,W,S)
See ART 3133C.	
ART 4151C Jewelry and Metals	(5)(F.W.S.SS)
See ART 3150C.	(-)(-,,-,-,)
APT 4164C Class Planting	(5) (W S)
ART 4164C Glass Blowing See ART 3163C	(5)(W,S)
See AKT 3163C	
ART 4320C Drawing	(5)(F,W,S)
See ART 3310C.	
ART 4332C Figure Drawing	(5)(F,W,S,SS)
See ART 3331C.	(5)(1,11,0,05)
See ART 5551C.	
ART 4402C Printmaking	(5)(F,W,S)
See ART 3401C.	
ART 4532C Painting	(5)(F,W,S,SS)
See ART 3510C	(2)(1,11,0,00)
ART 4604C Photography	(5)(F,W,S,SS)
See ART 3601C	
ART 4632C Film Production 11	(5)
See ART 3631C.	(-)
ART 4652C Video Art	(5)

See ART 3651C.

(5)

ART 4703C Sculpture See ART 3702C.	(5)
ART 4906C Directed Study See ART 3904C.	(VAR)(F,W,S)

ART 4910C Research (VAR)(F,W,S,SS) See ART 3905C.

**ART 4949C Cooperative Education** 

in Visual Arts (5)A student majoring in Visual Arts may spend

several quarters fully employed in industry in a capacity relating to the major. Must have permission of instructor.

### ART 4955C Thesis and Portfolio

#### (5)(F,W,S,SS)

Work in the student's major area in a studio situation, resulting in a student exhibit. Arrangements must be made at least 3 quarters in advance of expected graduation date. Prerequisite: 25 hours of one studio area.

ART 5125C Ceramics (VAR)(F,W,S,SS)See ART 4114C. ART 5133C Fabrics and Fibers (VAR)(F,W,S) See ART 3133C.

ART 5159C Jewelry and Metals (VAR)(F,W,S,SS)

See ART 3150C.

ART 5165C Glass Blowing See ART 3163C.	(VAR)(W,S)
ART 5340C Drawing See ART 3310C.	(VAR)(F,W,S)
ART 5341C Figure Drawing See ART 3331C.	(VAR)(F,W,S,SS)
ART 5403C Printmaking See ART 3401C.	(VAR)(F,W,S)
ART 5580C Painting See ART 3510C.	(VAR)(F,W,S,SS)
ART 5620C Photography See ART 3601C.	(VAR)(F,W,S,SS)
ART 5660C Video Art See ART 3651C.	(VAR)
ART 5730C Sculpture See ART 3702C.	(VAR)
ART 5907C Directed Study See ART 3904C.	(VAR)(F,W,S,SS)
ART 5910C Research See ART 3905C.	(VAR)(F,W,S,SS)
	BOI(Continued)

## **College of Arts and Sciences**

# Caribbean-Latin AmericanStudies

## Caribbean-Latin American Studies Certificate Program

Director: Mark B. Rosenberg, (Political Science)

Associate Director: Mark D. Szuchman, (History)

Coordinating Council: Thomas Breslin, (International Relations), Judson De Cew (Political Science), Lou Escovar (Psychology), Barry Levine (Sociology), Terry McIntosh (International Relations), Anthony Maingot (Sociology), Florentin Maurrasse (Physical Sciences), Raul Moncarz (Economics), William Vickers (Anthropology), Maida Watson (Modern Languages)

LOCATION: Tamiami and North Miami

The Caribbean and Latin American Studies Certificate Program at Florida International University represents one way in which the University fulfills its commitment to furthering international understanding. The Certificate Program encourages students to take an interdisciplinary approach to the study of the Caribbean and Latin America. The Certificate is awarded to both degree and non-degree-seeking students who have successfully completed the Certificate requirements (see below). For students pursuing a bachelor's degree, the Certificate Program should be understood as a complement to the students regular major area or discipline of study. For non-degree-seeking students, who may enroll in the program under the university's "special student" designation, the Certificate Program represents one way in which a fuller, more complete understanding of the Caribbean and Latin America can be gained without pursuing a full course of study at the University.

Both degree and non-degree seeking students can enroll in the Certificate Program by applying directly through the Director or Associate Director. The student will then be assigned a faculty advisor familiar with both the major and/or Certificate requirements. The assigned advisor will meet with the student prior to each quarter's registration period to facilitate the student's progress toward the Certificate.

Upon completion of the Certificate requirements, the student's advisor will sign the completed Certificate course form and it will be transferred to the Certificate Director, who will award the Certificate.

The Certificate Program is one of the activities of the Caribbean-Latin American Studies Council (CLASC) of the University. As one of its functions, the Council promotes and integrates courses that have primary content on the Caribbean and/or Latin American areas. The courses to be included in the Certificate Program will reflect the expertise of the faculty, and will therefore vary over the years.

Certificate Requirements: (Total of 30 quarter hours):

- A minimum of 25 quarter hours with a grade of "C" or better in courses certified by the Program. Courses must be taken from at least three different departments.
- The introductory language sequence in Spanish, Portuguese, or French; or exemption through demonstrated proficiency as determined by the Department of Modern Languages. (The language sequence will not count toward the 30 quarter hour requirement.)
- 3) Five quarter hours of independent study under faculty supervision, during which a research paper will be written.

After fulfilling all requirements, students will participate in a colloquium with the faculty to discuss their research.

The following courses are currently being offered and fulfill Certificate requirements. These courses should not be understood as a complete list; students should consult with the Director of the Certificate Program about current course offerings.

*Remarks:* A grade of C or better in all courses required for the major is necessary for graduation.

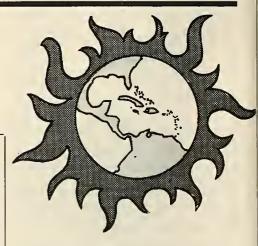
## **Course Descriptions**

#### **Definition of Prefixes**

ANT-Anthropology; CPO-Comparative Politics; ECO-Economics; ECS-Economic Systems & Development; FRE-French Language; FRW-French Literature (Writings); DEA-Geography-Regional (Area); GLY-Geology; INR-International Relations; LAH -Latin American History; PHH-Philosophy, History of; POW-Portuguese Literature (Writings); REL-Religion; SOC-Sociology; SPN-Spanish Language; SPW-Spanish Literature (Writings).

#### ANTHROPOLOGY

- ANT 3144 Prehistory of the Americas
- ANT 3251 Peasant Society
- ANT 4324 Many Mexicos
- ANT 4332 Latin America
- ANT 4340 Cultures of the Caribbean
- ANT 4343 Cuban Culture and the Revolution
- ANT 4362 Maya Civilization



ANT 4930 Research in Maya Civilization EARTH SCIENCES GLY 3157 Elements of Caribbean Geology GLY 4190 Caribbean Earth Sciences Seminar GLY 4792 Caribbean Mineral Resources Field Trip GLY 5620 Caribbean Stratigraphic Micropaleontology GLY 5793 Caribbean Shallow-Marine Environments ECONOMICS ECO 4701 World Economy ECO 4733 Multinational Corporations ECS 3402 The Political Economy of South America ECS 3440 Economics of Central America ECS 4013 Economic Development ECS 4403 The Latin American Economies ECS 4403 Las Economias Latinoamericanas ECS 4404 Economic Integration-Latin America ECS 4430 The Economic Development of Cuba-Past and Present ECS 4432 Economic Integration-Caribbean ECS 4433 Economics of the Caribbean HISTORY LAH 3410 Mexico and the Caribbean LAH 3482 Modern Cuba LAH 4132 Colonial Latin America: The **Formative Period** LAH 4133 Colonial Latin America: The Mature Period LAH 4201 Latin America: The 19th Century LAH 4300 Latin America: The Modern Period LAH 4474 Topics in Caribbean History LAH 4511 Argentina: 1776-Present LAH 4932 Topics in Latin American History (Continued)

# **Consumer Affairs**

### INTERNATIONAL RELATIONS

- CPO 3326 Population and Geography of the Caribbean
- GEA 3400 Population and Geography of Latin America
- INR 3245 International Relations of Latin America
- INR 3246 International Relations of the Caribbean

**INR 4247 Caribbean Regional Relations** 

### **MODERN LANGUAGES**

The following courses may be taken in French (FRE), Portuguese (POR), or Spanish (SPN):

FRE 3500, SPN 3500 Civilization I (Caribbean-Latin American course)

FRE 4501, SPN 4501, Civilization II (Caribbean-Latin American course)

FRW 3520, SPW 3520 Prose and Society (Caribbean-Latin American course)

FRW 3580, SPW 3580 Intellectual History (Caribbean-Latin American course)

POW 4930 Special Topics (Caribbean-Latin American course)

# PHILOSOPHY AND RELIGIOUS STUDIES

PHH 3042 Latin American Philosophies

REL 4481 Contemporary Latin American Religious Thought

POLITICAL SCIENCE

- CPO 3303 Government and Politics of South America
- **CPO 3304 Theories of Latin American Politics**
- CPO 3323 Government and Politics of the Caribbean
- CPO 3333 Government and Politics of Central America
- **CPO 4005 Topics in Comparative Politics**

CPO 4055 Authoritarianism

CPO 4327 Topics in Caribbean Politics

**CPO 4360 Cuban Politics** 

INR 4244 Latin America in International Politics

### SOCIOLOGY

- SOC 4331 Latin American and Caribbean Social Structures
- SOC 4490 Area Studies: Social Structures and Problems

### SOC 4613 Third World Theory

SOC 4746 Social Conflict in Multi-Ethnic Societies

## Consumer Affairs Certificate Program

### Director: Milton L. Blum (Psychology)

Coordinating Committee: Myrna Crabtree (Home Economics Education), Dennis Marzella (Hospitality Management), Betty Morrow (Home Economics), Samuel Shapiro (Mathematical Sciences).

LOCATION: Tamiami Only

With the collaboration of all the academic units and the approval of the Vice President for Academic Affairs, the Consumer Affairs Institute administers a Consumer Affairs inter-disciplinary Certificate sanctioned by the College of Arts and Sciences of Florida International University.

The increasing number of issues and conflicts involving consumers, business, government, and labor demand study and research so that more appropriate resolutions can be achieved. The Certificate Program in Consumer Affairs is intended to provide a sound educational base for those dealing with consumer affairs matters –be they buyers or sellers. The courses leading to the Certificate can serve those pursuing careers in consumer affairs, and provide personal benefit to individuals in their roles as consumers.

The Certificate Program is intended to provide business, government, industry, and labor with a resource for educating selected personnel in a broad range of subject matter related to consumer affairs.

A Certificate in Consumer Affairs will be awarded upon satisfactory completion of thirty credits from the courses histed in the Certificate requirements. Completed courses are recorded on a University transcript. These courses may be taken by Special Students with the advice of the Certificate Program Director. Special Student enrollment and course registration can be completed simultaneously at the time of registration. Students can be admitted to the Program at the beginning of any quarter.

## **Course Descriptions**

### **Definition of Prefixes**

COA-Consumer Affairs; ECO-Economics; EVR-Environmental Studies; FOS-Food Science; HUN-Human Nutrition; MAR-Marketing; PHI-Philosophy; PSY-Psychology; PUP-Public Policy; SOP-Social Psychology.

Required Courses: The following are the 22 credits of required courses.

### SOP 4645 Consumer Psychology

Factors that cause satisfaction and dissatisfaction in buying and selling transactions, and their environmental effects. Analysis of interactions between business, labor, government and the consumer.

### SOP 4649 Experimental Consumer Psychology

This course emphasizes original research on the part of the student, using the methodologies of the Interactional Workshop and the Observational Guide.

### COA 3410 Consumer Resources (5)

Evaluation of information needed by consumers to make wise spending decisions, including sources of consumer help, information and protection. Experiences in product comparison provided.

### COA 4460 Consumer and Technology

(5)

(5)

(7)

Study of the inter-relationship of the consumer and the industrial/business community, including the roles and responsibilities of each. Special topics include the effectiveness of decisions on product cost, life styles and the environment, as well as the role of government in the marketplace.

**ELECTIVE COURSES:** Eight (8) hours are to be chosen, from the following courses. However, in addition, the student may be permitted

to select alternative consumer-oriented courses in his or her major department of study.

### ECO 3043 Consumer Economics (5) Effects of public policy on family incomes and expenditure patterns. Consumer behavior, advertising, and other influences affecting demand. The consumer protection movement.

**EVR 3011 Environmental Science** (5) For non-science majors. An introduction to the fundamental principles and concepts of ecology; and to air pollution and water resources.

**EVR 3012 Environmental Science II** (5) For non-science majors. An introduction to energy resources and conservation; agricultural pollution; noise pollution; and solid waste problems.

FOS 3004 Food and the Consumer (4) Survey of nutrition information relating to problems and issues of concern to today's consumers.

HUN 3122 Nutrition and Culture (4) Nutrients and their interrelationships, in reference to food habits and needs of various population groups. Introduction to the impact of culture on nutrition, and study of personal food pattern development.

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# **College of Arts and Sciences**

# Ethnic Studies LinguisticStudies

MAR 4503 Consumer Behavior (5) The consumer as the basis for development of marketing programs by business organizations.

PHI 4631 Ethical Issues in Business (5) Ethical dimensions of current problems and issues facing the worker or business manager.

## PUP 4203 Environmental Politics

and Policy (5) Steps in the environmental policy-making process whereby private preferences are transformed into public policy.

COA 4440 Consumer Counseling (5) Application of consumer and management knowledge and skills in financial decision making. Case study approach. Prerequisites: COA 3410, HME 4210, and permission of instructor.

COA 5450 Consumer Legislation (5) Presentation of scope, enforcement and problems related to consumer law at the local, state and federal levels.

PSY 4941 Independent Field Experience in Psychology (VAR)

## Ethnic Studies Certificate Program

Director: John F. Stack, Jr. (Political Science).

Coordinating Committee: Ralph S. Clem (International Relations), Anthony P. Maingot (Sociology/Anthropology), Mark D. Szuchman (History).

LOCATION: Tamiami Campus only

The College of Arts and Sciences offers the student a program in ethnic studies, in recognition of the place ethnic studies enjoys in the social sciences and humanities, and the importance of ethnic studies in today's world. The program seeks to establish a proper balance between its academic goals and objectives and the ongoing concerns of the University's local and international constituencies. The Program contains four specialized areas: Black Studies, Jewish Studies, Cuban Studies, and Comparative Studies.

The Certificate in Ethnic Studies is awarded with a bachelor's degree or upon completion of Certificate requirements, to a student who already possesses that degree. The Certificate will specify the area of concentration chosen by the student.

A student may acquire the Certificate in Ethnic Studies by fulfilling the following requirements:

- General Requirements
  - 1. A minimum of 30 quarter hours with a grade "C" or better.

- Courses in both the "Core" and "Specialized" areas (indicated below) must be taken from at least two different departments.
- 3. A maximum of 5 quarter hours in a relevant language will be accepted.
- 4. A maximum of 10 hours of independent study will be accepted.
- 5. The Program Director must approve the student's overall plan and all special topics courses must be approved by Certificate advisors in each area.

The Program is especially eager to encourage programs of study abroad and field work in general. Credit for such programs will be awarded on an individual basis after evaluation by the Director and the Coordinating Committee, but in no case will it consist of more than 15 credit hours towards the Certificate.

Specific Requirements

- 1. A core of a minimum of two to three courses of a theoretical and conceptual nature in the area of ethnic studies
- 2. A minimum of three to four specialized courses in one of the four distinct areas:
  - a) Black Studies
  - b) Jewish Studies
  - c) Cuban Studies
- d) Comparative Studies

### **Definition of Prefixes**

AML-American Literature; ANT-Anthropology; ECP-Economic Problems and Policy; ECS-Economic Systems and Development; FOL-Foreign and Biblical Languages; GEA-Geography - Regional Area; HIS-History -General; INR-International Relations; LAH-Latin American History; LIT-Literature; MUH-Music: History/Musicology; POS-Political Science; PUP-Public Policy; REL-Religion; SOC-Sociology; SOP-Social Psychology.

Core Courses: SOC 4745 or ANT 4451: Minorities; PUP 4314: Ethnic Politics; INR 4084: Ethnic Conflict in Transnational Politics; INR 4024: Ethnicity and Nationality; ECP 3144: Economics of Race and Sex Discrimination; SOP 4444: Attitudes and Ethnicity.

Specialized Courses: (Note: this is not an exhaustive list; students should consult with the Director of the program on current offerings.) Specialized Courses in Cuban Studies:

- ECS 4430 The Economic Development of Cuba
- FOW 4390Genre Studies (with reference<br/>to Cuban Literature)INR 3246International Relations of the<br/>CaribbeanLAH 3930Cuban History
- SOC 4331 Latin American and Caribbean



	Social Structures	
SOC 4613	Third World Theory	
Specialized Con	urses in Black Studies:	
AML 5212	Major American Literary	
	Figures	
ANT 4315	Afro-American Anthropology	
ANT 4352	Area Studies	
LIT 4203	Regional Literature in English	
L1T 4930	Special Topics	
MUH 3116	Evolution of Jazz	
SOC 4746	Social Conflict in Multi-Ethnic	
	Societies	
Specialized Courses in Jewish Studies:		
GEA 3630	Population and Geography of	
	the Middle East	
INR 3274	International Relations of the	
	Middle East	
POS 4147	Political Urban Jewish	
	Leadership	
REL 3224	The Prophets	

# Linguistic Studies Certificate Program

Director: Lynn Berk (English)

Coordinating Committee: Reinaldo Sanchez (Modern Languages), John Jensen (Modern Languages), George Kovacs (Philosophy), and John Staczek (Secondary Education).

LOCATION: Tamiami Campus Only

The University does not offer an undergraduate degree in linguistic studies, but it does provide a Certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of linguistics. This certificate is designed to meet the needs of those who have a general interest in linguistic studies, as well as those for whom work in linguistics would assist in career planning or advancement.

A student can acquire a Certificate in Linguistic Studies by fulfilling the following requirements:

- The successful completion of at least six courses (30 quarter hours) in linguistics or linguistic-related courses. These courses are listed below.
- (2) Courses must be selected from at least two different departments. It is recommended that courses be selected from three departments. Students should consult their Certificate advisor in selecting courses.

# Marine Science

(3) With the advice of the Coordinating Committee, the student is encouraged to attain some degree of proficiency in a language other than his/her native language.

In addition to the requirements noted above, all of the requirements for obtaining a bachelor's degree in the College of Arts and Sciences or in one of the professional schools must be met, including the majors and minors appropriate to that degree.

A Coordinating Committee, representing various fields and consisting of faculty engaged in the teaching of one or more courses in linguistic studies will advise students and grant the Certificate.

A student wishing to earn a Linguistics Studies Certificate will choose courses from the following list of offerings:

### **Definition of Prefixes**

ENG-English, general; FOL-Foreign Languages; FRE-French; LIN-Linguistics; MHF -Mathematics, History & Foundations; PHI-Philosophy; SPA-Spanish.

Required Courses:

- 1. LIN 3010 Introduction to General Linguistics (5 credits) OR ENG 3500 English Linguistics (5 credits)
- FOL 4930 Special Topics: Spanish Grammar (5 credits) OR ENG 4555 Modern English Grammar (5 credits)

3. One of the following courses:

LIN 3642 Language and Culture (5 credits) LIN 4701 Psychology of Language (5 credits)

LIN 4710 Language Acquisition (5 credits) LIN 5934 Special Topics: Sociolinguistics (5 credits)

PHI 4221 Philosophy of Language (5 credits)

PHI 4222 Philosophy of Dialogue (5 credits) Remaining courses for the Certificate will be selected from the following list:

Anthropology

LIN 3642 Language and Culture (5 credits)

English

ENG 3500 English Linguistics (5 credits) ENG 4574 Black English (5 credits) LIN 3400 Applied Linguistics (5 credits) ENG 4555 Modern English Grammar (5 credits) ENG 5517 History of the English Language (5 credits)

Modern Languages FRE 3780 Phonetics (5 credits) LIN 3400 Applied Linguisitcs (5 credits)

LIN 3010 Introduction to General Linguistics (5 credits) SPN 3780 Phonetics (5 credits) SPN 3840 History of the Language (5 credits)

FOL 3732 Romance Linguistics (5 credits) SPN 4790 Contrastive Phonology (5 credits) SPN 4800 Contrastive Morphology (5 credits)

LIN 4418 Problems in Language Learning (5 credits)

LIN 4620 Studies in Bilingualism (5 credits) Philosophy

PHI 4221 Philosophy of Language (5 credits)

PHI 4222 Philosophy of Dialogue (5 credits) Psychology

LIN 4701 Psychology of Language (5 credits)

LIN 4710 Language Acquisition (5 credits) SPA 5401 Disorders of Language in Childhood (5 credits)

Mathematics MHF 4302 Mathematical Logic (5 credits)

## Marine Science Certificate Program

Director: W. M. Goldberg (Biological Sciences)
 Coordinating Committee: J. Makemson (Biological Sciences)
 P. McLaughlin (Biological Sciences)
 F. Maurrassee (Physical Sciences)
 J. Sheldon (Physical Sciences)
 A. Thorhaug (Biological Sciences)
 M. Tracey (Biological Sciences)

### LOCATION: Tamiami Campus Only

The Marine Science Program is designed to meet the needs of students whose general interests are geared to the natural sciences, environmental sciences or engineering. The traditional disciplines of biology, chemistry, physics and geology are reflected in the four courses required for the certificate in marine sciences. The broad background, in turn, prepares students for work in technical fields, for advanced graduate work, or for secondary school teaching. The certificate is awarded to both degree and non-degree seeking students who have successfully completed the requirements listed below. **Definition of Prefixes** 

EVS-Environmental Sciences; GLY-Geology; MCB-Microbiology; OCB-Biological Oceanography; OCC-Chemical Oceanography; OCE-Oceanography; ZOO-Zoology. *Certificate Requirements:* 



LOWER OR UPPER DIVISION PREPARATION:

2 quarters of inorganic chemistry with laboratory; 2 quarters of biological sciences with laboratory.

UPPER DIVISION PROGRAM:\* Required Courses:

**Ouarter** Hours

	Quarter	пои
OCB 3010	Biological	
	Oceanography	5
OCB 3010L	Biological	
	Oceanography Lab	2
GLY 4730	Marine Geology	5
GLY 4730L	Marine Geology	
	Lab	1
OCE 3014	Physical	
	Oceanography	5
OCC 3002	Chemical	
	Oceanography	5
OCC 3002L	Chemical	
	Oceanography Lab	2

25

### Plus Two of the Following Electives:

MCB 4/33*L	Marine	
	Microbiology	7
GLY 5793	Caribbean Shallow-	
	Marine	
	Environments	5
ZOO 3253+L	Marine Invertebrate	
	Zoology	7
EVS 3268	Marina Tashnalasu	5
EVS 3200	Marine Technology	5
OCB 5635+L	Coral Reef Ecology	7
ZOO 5625*L	Biology of	
	Crustaceans	8
EVS 3420	Environmental	
	Instrumentation	5

\*All required courses require a grade of "C" or better.

## Western Social and Political Thought Certificate Program

Director: Brian Nelson (Political Science) Coordinating Committee: Charles Elkins (English), Bruce Hauptli (Philosophy/Religion), Antonio Jorge (International Relations), Eric Leed (History), Barry Levine (Sociology).

LOCATION: Tamiami Campus Only

## A&S 78

# **College of Arts and Sciences**

# Western Social and Political Thought

The certificate program provides interested students with a broad background in the history of western social and political thought. As such, the certificate student will be expected to take courses from a variety of disciplines and at least three tutorials. Each tutorial will concentrate on one prescribed book which will be the same for all students. At the beginning and end of each quarter the students will meet as a group with the instructors in the program to discuss the different perspectives which they have developed on the common subject matter. *Certificate Requirements:* A total of 31 units in prescribed certificate courses with a grade of "C" or better:

- 20 units of course work in three historical eras (Ancient-Medieval, Modern, and Contemporary) from at least three different departments (Economics, English, History, Philosophy/Religion, Political Science, Sociology/Anthropology). See course listing below.
- (2) 5 units of IDS 4920, Liberal Studies Colloquium on "Visions of Order and Revolt".
- (3) 6 credit hours of independent study tutorials taken in three 2 credit hour blocs.

Advising Procedures: The student's advisor will be the designated certificate representative in his or her major. Students interested in the program may find their advisor listed above under "coordinating committee". It is the function of the certificate advisor to aid students in the selection of relevant courses, to insure that all certificate requirements have been completed before graduation, and to assign the tutorial grades. Students who are majoring in a discipline other than those listed will be advised by the director of the certificate program.

*Course Listing:* The following list may be modified from time to time, and new courses added. The student should consult with his or her advisor about current course offerings.

Ancient-Medieval

- EUH 3420 Greece and Rome
- LIT 4401 Literature Among the Arts and Sciences\*\*

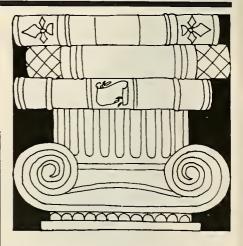
PHH 3100 Ancient Philosophy

PHI 3401 Social and Political Philosphy\*

PHM 4400 Philosophy of Law\*

- POT 3013 Ancient and Medieval Political Theory
- POT 4930 Topics in Political Theory\*\*
- POT 5934 Topics in Political Theory\*\* Modern
- ENL 4137 Shakespeare's Histories

- ENL 4138 Shakespeare's Comedies
- ENL 4139 Shakespeare's Tragedies
- EUH 3142 Renaissance and Reformation
- EUH 3452 French Revolution and Enlightenment
- EUH 4200 Early Modern Europe I 1500-1650
- EUH 4286 Topics in European Intellectual History
- LIT 3510 Themes in Literature
- LIT 4401 Literature Among the Arts and Sciences\*\*
- PHH 3200 Medieval Philosophy
- PHI 3401 Social and Political Philosophy\*
- PHM 4400 Philosophy of Law\*
- POT 3054 Modern Political Theory I
- POT 4204 American Political Thought\*
- POT 4930 Topics in Political Theory\*\*
- POT 5934 Topics in Political Theory\*\*
- SOC 4640 Intellectual Precursors of Sociology Contemporary
- AMH 3331 American Intellectual History
- AMH 3332 American Intellectual History
- ECO 3303 The Development of Economic Thought
- ECO 4307 Radical Political Economy
- EUH 4286 Topics in European Intellectual History
- LIT 4401 Literature Among the Arts and Sciences\*\*
- PHI 3401 Social and Political Philosophy\*
- PHM 4400 Philosophy of Law\*
- PHP 4510 Marxism
- POT 3064 Contemporary Political Theory
- POT 4055 Modern Political Theory II
- POT 4302 Political Ideologies
- POT 4204 American Political Thought\*
- POT 4930 Topics in Political Theory\*\*
- POT 5934 Topics in Political Theory\*\*
- SOC 3001 The Basic Ideas of Sociology
- SOC 3610 Sociological Theories
- SOC 4221 Political Sociology
- SOC 4611 Advanced Social Theory \* Thematic Courses that cover more than one historical period.



\*\* Depending on subject taught, these courses may cover one or more than one historical period. Students should consult their advisors before enrolling.

## **College of Arts & Sciences**

Dean	James A. Mau
Associate Dean,	
Budget and Development	Arthur W. Herriott
Associate Dean,	
Curriculum and Adviseme	nt
	Mary L. Volcansek
Chairpersons:	
Biological Sciences	Leon Cuervo
Economics	Mira Wilkins
English	Donald Watson
History.	Howard Kaminsky
Humanities	Charles Elkins
International Relations	Ken Boodhoo
Liberal Studies	Martin Tracey
Mathematical Sciences	Samuel Shapiro
Modern Languages	Reinaldo Sanchez
Performing Arts	Philip Fink
Philosophy and Religion	James Huchingson
Physical Sciences	Howard Moore
Political Science	Judson DeCew
Psychology	Gary Moran
Sociology and Anthropolog	
	Anthony Maingot
Visual Arts	Frank Wyroba
Faculty	
Aid, Francis, Ph.D. (Georgen	
sociate Professor, Modern	Languages
Algaze, Benjamin, Ph.D. (	University of South
Florida), Assistant Profess	sor, Psychology
Antrim, Harry, Ph.D. (Un	iversity of Florida).
Professor, English	
Arias, Ricardo, Ph.D. (Univ	
fessor, Philosophy and Rei	
Arnold, St. George Tucker,	
University), Associate Pro	
Baggett, Patricia, Ph.D. (1	
rado), Assistant Professor,	
Bekele, Gezahegne, M.A. (A	
Assistant Professor, Econo.	
Berk, Lynn, Ph.D. (Purdue	University). Associ-
ate Professor, English	
	(Continued)

# Faculty

- Blum, Mikon, Ph.D. (New York University), Professor, Psychology
- Boodhoo, Ken, Ph.D. (University of the West Indies, Jamaica), Chairperson and Associate Professor, International Relations
- Bouma, Frederick J., Ph.D. (University of Illinois), Associate Professor, Modern Languages
- Brain, Carlos, Ph.D. (West Virginia University), Assistant Professor, Mathematical Sciences
- Breslin, Thomas, Ph.D. (University of Virginia), Assistant Professor, International Relations
- Brown, Jerry, Ph.D. (Cornell University), Associate Professor, Sociology and Anthropology
- Brownston, Lee, Ph.D. (University of Minnesota), Assistant Professor, Psychology
- Buckley, Ralph, M.F.A. (Maryland Institute), Assistant Professor, Visual Arts
- Burke, William, M.F.A. (State University of New York at New Platz), Associate Professor, Visual Arts
- Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences
- Clem, Ralph, Ph.D. (Columbia University), Associate Professor, International Relations
- Comfort, John C., Ph.D. (Case Western Reserve University), Associate Professor, Mathematical Sciences
- Couper, James, M.A. (Florida. State University), Associate Professor, Visual Arts
- Crosby, James, Ph.D. (Yale University), Professor, Modern Languages
- Cuervo, Leou, Ph.D. (University of Maryland), Chairperson and Associate Professor, Biological Sciences
- **DeCew, Judson, Ph.D.** (University of Connecticut), Chairperson and Assistant Professor, Political Science
- Draper, Grenville, Ph.D. (University of the West Indies), Assistant Professor, Physical Sciences
- Duncan, Richard, M.F.A. (Southern Illinois University), Assistant Professor, Visual Arts
- Dunn, Marvin, Ph.D. (University of Tennessee). Associate Professor, Psychology and Associate Vice President for University Outreach and Services
- Dwyer, Richard, Ph.D. (University of California at Los Angeles), Professor, English
- Edwards, Judith, M.A. (City College of New York), Assistant Professor, Performing Arts
- Elkins, Charles, Ph.D. (Southern Illinois University), Associate Professor, English, and Director of Humanities
- Elkins, Mary Jane, Ph.D. (Southern Illinois University), Assistant Professor, English
- Escovar, Luis, Ph.D. (Pennsylvania State University), Assistant Professor, Psychology
- Fink, Philip, Ph.D. (University of Miami), Chairperson and Professor, Performing Arts
- Finley, Gordon, Ph.D. (Harvard University), Professor, Psychology

- Berk, Toby, Ph.D. (Purdue University), Associate Professor, Mathematical Sciences
- Blaney, Nancy, Ph.D. (University of Texas), Assistant Professor, Psychology
- Fisher, Robert, Ph.D. (University of Kansas), Vice President for Academic Affairs, and Professor, Mathematical Sciences
- Fjellman, Stephen, Ph.D. (Stanford University), Associate Professor, Sociology and Anthropology
- Flanders, James, Ph.D. (Vanderbilt University), Associate Professor, Psychology
- Flexser, Arthur, Ph.D. (Stanford University), Assistant Professor, Psychology
- Foos, Paul, Ph.D. (Bowling Green State University), Assistant Professor, Psychology
- Forbes, Barbara, Ph.D. (University of California at Berkeley), Assistant Professor, Visual Arts
- Fox, Tillie, M.S. (University of Miami), Instructor, Mathematical Sciences
- Ghai, Gauri, Ph.D. (Iowa State University), Associate Professor, Mathematical Sciences
- Giberson, Philip, Jr., M.A. (Memphis State University), Associate Professor, Performing Arts
- Girden, Edward, Ph.D. (University of Illinois), Distinguished Professor, Psychology
- Goldberg, Walter, Ph.D. (University of Miami), Associate Professor, Biological Sciences
- Gonzales de Mendoza, Ramon, Ph.D. (Frei Universitat, Berlin), Professor, Modern Languages
- Gonzales-Reigosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology
- Gotterer, Malcolm, D.B.A. (Harvard University), Professor Mathematical Sciences

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

- Grabarek, Stanislaus, Ph.D. (University of Chicago), Assistant Professor, Philosophy and Religion
- Guers-Villate, Yvonne, Ph.D. (Bryn Mawr College), Professor, Modern Languages
- Hall, James, Ph.D. (University of Utah), Associate Professor, English
- Hardy, Kenneth, Ph.D. (Tulane University), Associate Professor, Physical Sciences
- Haupitli, Bruce, Ph.D. (Washington University), Assistant Professor, Philosophy and Religion
- Henley, Carol, M.S. (University of Miami), Instructor, Mathematical Sciences
- Henley, Kenneth, Ph.D. (University of Virginia), Assistant Professor, Philosophy and Religion
- Herriott, Arthur, Ph.D. (University of Florida), Associate Professor, Physical Sciences and Associate Dean, Arts and Sciences
- Hoch, Judith, Ph.D. (McGill University), Assistant Professor, Sociology and Anthropology
- Howell, Ina Parks, M.S. (Northwestern University), Instructor, Mathematical Sciences

- Huchingson, James, Ph.D. (Emory University), Chairperson and Assistant Professor, Philosophy and Religion
- Jacobs, Ellen, M.S. (Illinois Institute of Technology), Associate Professor, Visual Arts
- Jensen, John, Ph.D. (Harvard University), Associate Professor, Modern Languages
- Jhabvala, Farrokh, Ph.D. (Fletcher School of Law and Diplomacy), Assistant Professor, International Relations
- Johnson, Paulette, Ph.D. (Kansas State University), Assistant Professor, Mathematical Sciences
- Jorge, Antonio, Ph.D. (Villanova Universidad), Professor, International Relations
- Kaminsky, Howard, Ph.D. (University of Chicago), Chairperson and Professor, History
- Kandel, Randy, Ph.D. (City University of New York). Associate Professor, Sociology and Anthropology
- Karels, Gordon, Ph.D. (Purdue University), Assistant Professor, Economics
- Kaufman, Arie, Ph.D. (Ben Gurion University), Assistant Professor, Department of Mathematical Sciences
- Keller, Leonard, Ph.D. (Yale University), Associate Professor, Physical Sciences
- Konkel, Richard, Ph.D. (Bowling Green University), Associate Professor, Philosophy and Religion
- Kovacs, George, Ph.D. (University of Louvain), Professor, Philosophy and Religion
- Kraynek, William, Ph.D. (Carnegie-Mellon University), Associate Professor, Mathematical Sciences
- Kurtines, William, Ph.D. (Johns Hopkins University), Associate Professor, Psychology
- Lardaro, Leonard, Ph.D. (Indiana University), Assistant Professor, Economics
- Leed, Eric, Ph.D. (University of Rochester), Associate Professor, History
- Leeds, Marie, M.A. (University of Miami), Assistant Professor, Performing Arts
- LeRoy, Gene, M.S. (Florida International University), Instructor, Modern Languages
- Levine, Barry, Ph.D. (New School for Social Research), Associate Professor, Sociology and Anthropology
- Levitt, Mary, Ph.D. (Syracuse University), Assistant Professor, Psychology
- Lilie, Joyce R., Ph.D. (John Hopkins University), Associate Professor, Political Science
- Lowery, Shearon, Ph.D. (Washington State University), Assistant Professor, Sociology and Anthropology
- MacDonald, Charles, Ph.D. (University of Virginia), Assistant Professor, International Relations
- Maguire, William, M.S. (Illinois Institute of Technology), Assistant Professor, Visual Arts

- Maingot, Anthony, Ph.D. (Florida State University), Chairperson and Professor, Sociology and Anthropology
- Makemson, John, Ph.D. (Washington State University). Assistant Professor, Biological Sciences
- Martinez, Zaida. M.S. (Pennsylvania State University). Instructor, Physical Sciences
- Mau, James A., Ph.D. (University of California at Los Angeles). Professor, Sociology and Anthropology and Dean, Arts and Sciences
- Maurrasse, Florentin, Ph.D. (Columbia University), Associate Professor, Physical Sciences
- Mazer, Paul, M.F.A. (Pennsylvania State University), Assistant Professor, Performing Arts
- McElfresh, Clair, D.M.A. (Case Western Reserve University). Professor, Performing Arts
- McIntosh, Terry, Ph.D. (Michigan State University). Assistant Professor, International Relations
- McKenty, Geoffrey, Ph.D. (University of Illinois-Urbana). Assistant Professor Mathematical Sciences
- Mintz. Stephan, Ph.D. (Johns Hapkins University). Associate Professor, Physical Sciences
- Moncarz, Raul, Ph.D. (Florida State University). Associate Professor, Economics
- Montiel, Pete, Ph.D. (Massachusetts Institute of Technology), Assistant Professor, Economics
- Moore. Howard, Ph.D. (University of Arkansas), Chairperson and Professor, Physical Sciences
- Moran, Gary, Ph.D. (Katholieke University, Nijmegen, Netherlands). Chairperson and Professor, Psychology
- Muris ..., Gerald, Ph.D. (John Hapkins University). Associate Professor, Biological Sciences
- Navlakha, Jai. Ph.D. (Case Western Reserve University). Assistant Professor, Mathematical Sciences
- Nelson, Brian, Ph.D. (University of California at Riverside), Associate Professor, Political Science
- Obata, Yoshihro, Ph.D. (Michigan State University), Associate Professor, Perfarming Arts
- Okubo, Case, Ph.D. (University of Guelph). Assistant Professor, Biological Sciences
- Osborne, William, Jr., Ph.D. (Emory University), Associate Professor, Sociology and Anthropology

- Parker, Janat. Ph.D. (University of California, Berkeley). Associate Professor, Psychology
- Parker, John, Ph.D. (University of California, Berkeley). Associate Professor, Physical Sciences
- Peterson, Brian, Ph.D. (University of Wisconsin). Associate Professor, History
- Peterson, Joyce, Ph.D. (University of Wisconsin), Assistant Professor, History
- Pyron, Darden Asbury, Ph.D. (University of Virginia), Assistant Professor, History
- Rock, Howard, Ph.D. (New York University), Associate Professor, History
- Rohm, Joseph, Ph.D. (Florida State University), Associate Professor, Performing Arts
- Romanelli. Ralph. Ph.D. (University of Virginia), Assistant Professor, Mathematical Sciences
- Rosenberg. Mark, Ph.D. (University of Pittsburgh). Assistant Professor, Political Science
- Rotton. James, Ph.D. (Purdue University). Assistant Professor, Psychology
- Rubin, Richard, Ph.D. (Washington University), Associate Professor, Mathematical Sciences
- Sanchez, Reinaldo, Ph.D. (Washington University). Chairperson and Associate Professor, Modern Languages
- Saper, Bernard, Ph.D. (University of California at Las Angeles), Professor, Psychology
- Sauleda, Orlando, M.S. (Florida International University). Instructor, Mathematical Sciences
- Shapiro, Samuel S., Ph.D. (Rutgers University). Chairperson and Professor, Mathematical Sciences
- Sheldon, John, Ph.D. (Texas A&M University), Professor, Physical Sciences
- Shershin, Anthony, Ph.D. (University of Florida), Associate Professor, Mathematical Sciences
- Skotko. Vincent. Ph.D. (University of Cincinnaii), Assistant Professor, Psychology
- Slifker, James, Ph.D. (University of Natre Dame), Associate Professor, Mathematical Sciences
- Stack, John, Ph.D. (University of Denver). Assistant Professor, Political Science
- Stein, Abraham, Ph.D. (University of Southern California), Professor, Biological Sciences.
- Stinson, Michael C., M.S. (Michigan State University). Instructor, Department of Mathematical Sciences

- Sugg, Richard, Ph.D. (University of Florida), Associate Professor, English
- Svenson, Arthur, Ph.D. (University of California at Santa Barbara), Assistant Professor, Political Science
- Szuchman, Mark, Ph.D. (University of Texas), Assistant Professor, History
- Taylor, George, Ph.D. (University of Massachusetts), Assistant Professor, Biological Sciences
- Thomas, Babatunde, Ph.D. (Indiana University), Associate Professor, Economics
- Todd, Therald, Ph.D. (University of Oregon), Associate Professor, Performing Arts and Director of Theater
- Tracey. Martin, Ph.D. (Brown University). Associate Professor, Biological Sciences and Director of Liberal Studies
- Vagramian, Violet, Ph.D. (University of Miami), Associate Professor, Performing Arts
- Vickers, William, Ph.D. (University of Florida). Assistant Professor, Sociology and Anthropology
- Volcansek, Mary L., Ph.D. (Texas Tech University). Associate Professor, Political Science and Associate Dean, Arts and Sciences
- Watson, Donald, Ph.D. (University of Virginia). Chairperson and Associate Professor, English
- Watson-Espener, Maida, Ph.D. (University of Florida). Assistant Professor, Modern Languages
- Waugh, Butler, Ph.D. (Indiana University), Professor, English
- Welch, Marcelle, Ph.D. (University of Michigan). Assistant Professor, Modern Languages
- Whitehurst, Thomas, Ph.D. (Indiana University), Assistant Professor, Mathematical Sciences
- Whidden, Matrid H., M.S. (Florida Technological University), Instructor, Department of Mathematical Sciences
- Wilkins, Mira, Ph.D. (Cambridge University). Chairperson and Professor, Economics
- Williams, Kathryn, Ph.D. (Florida State University), Associate Professor, Physical Sciences
- Williams, Willie, Ph.D. (Michigan State University), Associate Professor, Mathematical Sciences
- Wyroba, Francis, M.A. (Columbia University), Chairperson and Professor, Visual Arts
- Yudin, Florence, Ph.D. (University of Illinois). Professor, Modern Languages

Miami, Florida

# School of Business and Organizational Sciences



# **General Information**

The School of Business and Organizational Sciences offers academic programs leading to the undergraduate degree of *Bachelor of Business Administration* and the graduate degree of *Master of Business Administration, Master of International Business,* and *Master of Science in Management.* These programs are designed to help prepare the student for careers in business, public administration, and other areas of management.

Programs of the School of Business and Organizational Sciences are based on a background of courses in the arts and sciences, followed by a foundation in management policies, institutions, and operations, including study of the basic managment tools: analysis and decision-making. Further study in the functional areas of enterprise leads to a thorough preparation in a selected field of specialization.

The School is organized into the departments of: Accounting; Finance and International Business; Management; and Marketing. At the Tamiami Campus there is a central undergraduate advising unit (DM361) and a graduate coordinator (DM362B). These advisors are available to provide detailed information about programs offered by the School. Their telephone number is (305) 552-2781. For students at the North Miami Campus, there are undergraduate and graduate counselors. Their telephone number is (305) 940-5870.

# **Programs of Study**

Every student must have a program of study completed by the end of his or her first quarter of attendance. A completed program of study is one that has been filled out and signed by the student, his or her counselor and the appropriate Department Chairperson. If such a program of study is not completed at least three (3) quarters before a student is expected to graduate, the student may not be permitted to register for further classes. Entering students should immediately call (305) 552-2781 Tamiami Campus, or (305) 940-5870 at the North Miami Campus for a counseling appointment. Please note that no more than 20 quarter hours of credit (undergraduate students), or 15 quarter hours of credit (graduate students) may be taken as a special student and applied toward a degree. Courses must be approved in advance by a counselor.

# Counseling

As noted above, the School has a centralized undergraduate connseling unit with three counselors (DM361) and a graduate coordinator (DM362B) at the Tamiami Campus; and undergraduate and graduate counselors at the North Miami Campus.

## Undergraduate Study: General Information

A student entering into a bachelor's program of the School is required to have completed the Associate of Arts degree or its equivalent, and is encouraged to bring with him or her some knowledge of accounting, mathematics, computer programming, and economics. The broad liberal arts exposure inherent in the Associate of Arts degree usually enables a student to complete the Bachelor of Business Administration requirements in the equivalent of two years, and to take most of the professional work with Florida International's School of Business and Organizational Sciences. This professional work includes: (1) certain required courses, each of which is designed to introduce the student to a common body of knowledge, including quantitative analysis, finance and control, administrative theory and practices, the social and legal environment of business and government, and marketing and distribution; (2) courses required for the student's major; (3) opproved elective courses; and, (4) pre-core courses (where necessary).

The student entering an undergraduate program of the School of Business and Organizational Sciences is required to meet the following four standards:

- 1) 90 quarter hours (60 semester) completed.
- 2) grade point average of 2.0 or above.
- satisfaction of general University requirements for admission, including, in this case, the general education requirements. The general education requirements are: English composition (9), humanities (9), social science (9), natural science (9), mathematics (4), electives in one or more of the above areas (14).

NOTE: If a student has above a 2.0 GPA, he/ she may be deficient in 4.5 quarter hours of general education credits and still be accepted into this program.

The basic program in the School of Business and Organizational Sciences to obtain a *BBA* degree is 90 quarter hours. Generally, the student completing general education requirements, or making up prerequisite deficiencies at Florida International will add these credits to his or her basic 90 quarter hour program. At a minimum, the student's last 45 hours of courses must be taken at Florida International. All lower division deficiences must be completed during the student's first two quarters at Florida International.

## Upper Division Transfer Credits

Previous credit may be considered acceptable for transfer toward upper level academic study in the School if the credit was earned within the last six (6) years, and was designated as juniorsenior level credit at an accredited four year or upper level institution, or can be validated by some acceptable measure to verify its equivalence. Students wishing to transfer to the School of Business and Organizational Sciences must be in good standing at their previous school or college.

# **Change of Major**

Any student attempting to change to a new or revised major in the School of Business and Organizational Sciences must meet the requirements that exist at the time of the change.

# **Residency Requirements**

A student must complete his or her last 45 quarter hours of course work at Florida International to qualify for the *BBA* degree from the School.

# **Credit-By-Examination**

A student registered for a course in the School may, at the discretion of the instructor and department chairperson, and after presenting sufficient justification, attempt credit by examination. The special examination will be given by the course instructor, preferably during the first week of classes to allow registration for another course that academic quarter. A grade of EM will be noted on the course grade roll at the end of the quarter if the student, in the opinion of the professor, has passed the special examination.

## **Course Selection and Class** Loads

Generally, a junior level student should concentrate on the 45 quarter hours of core courses (and pre-core courses, if needed). Courses at the 4000 and 5000 levels are normally taken during the senior year, and the student must have the necessary background and/or training before enrolling.

# **Business**

The normal class load each quarter for an undergraduate student is:

	Quarter Hours*
Full-time attendance	15
Working part-time	10
Working full-time	5
*Unusual	
circumstances	
combined with high	
scholarship may	
warrant an exception	
-which must be	
approved by the	
Dean.	

# **Graduation Procedures**

- During the first year in the program, undergraduate and graduate students develop and sign, with their faculty advisor and Dean, advance standing forms and programs of study. This program of study becomes the basic contract between the School and the student, and is used in determining when a student is eligible for a degree. The Dean's Office should receive copies of all programs of study after all signatures have been obtained.
- 2. Approximately five months prior to the expected graduation date, the student files an application for graduation with the Office of Registration and Records.
- 3. The Dean's Office, having received this application from the Office of Registration and Records, has the appropriate faculty advisor review the student's record in order to determine that he has fulfilled, or is in the process of fulfilling, the courses required for graduation as listed in his program of study.
- 4. If the student's progress is deemed acceptable, the faculty advisor, Department Chairperson, and Dean certify the application for graduation, contingent upon completion of the course work which the student is registered for in his final quarter.

# **Undergraduate Majors**

Major programs leading to the bachelor's degree are offered in Accounting, Finance, Insurance, International Business, Management, (including Personnel Management and Information Systems), Marketing, Real Estate, and Transportation Management.

# Undergraduate Business Program Requirements

LOWER DIVISION PREPARATION:

The following courses in addition to the other requirements for the Associate of Arts degree, should be a part of the 90 quarter hours (60 semester hours) of lower division coursework completed in order to enter these upper division majors: 6 semester hours of accounting; 6 semester hours of economics; 3 semester hours of college algebra; 3 semester hours of statistics; 3 semester hours of computer programming. If completed at Florida International University, this courswork will normally be taken *in addition* to the 90 quarter hours of required upper division work.

Computer Programming Proficiency Requirement: The rapidly increasing need of the professional administrator for exposure to computer technology and terminology is the rationale for the computer programming proficiency requirement of the School. The growth and reliance on data processing techniques by business and government demand that fundamental experience in this area be achieved. Therefore, prior to enrollment in CIS 3000 (or ACC 4731), each student must demonstrate computer programming proficiency. This requirement may be completed in any of the following ways:

- Successful completion of a computer programming course at the lower division.
- Successful completion of COP 3172–Basic Programming for Business.
- Self-study, or work experience. An examination is offered on a regular basis for students selecting this alternative.

Further details may be obtained from the Advisement Office of the School.

### UPPER DIVISION PROGRAM:

Quarter Hours

Pre-Core Courses Required for Business Administration Students:

*ACC 3300	Accounting for	
	Decisions	5
*ECO 3003	Economics, Man &	
	Society	5
*STA 3132	Quantitative	
	Methods for	
	Administation	5
COP 3172	<b>Basic Programming</b>	
	for Business	5

\*NOTE: STA 3132, ECO 3003 and ACC 3300 will be waived if the student received an A, B, or C in the appropriate lower division courses. Please see a counselor to determine whether these courses should or should not be added to your academic program. If a student has successfully completed comparable courses at the lower level, upper divison credit will not be given for STA 3132, ECO 3003 and ACC 3300. *Core Courses Required for Business Administration Students:* 

FIN 3403	Financial	
	Management	5
MAN 3503	Managerial Decision	
	Making	5
MAR 3023	Marketing	
	Management	5
QMB 3150	Applications of	
	Quantitative	
	Methods in Business	5
**CIS 3000	Introduction to	
	Information	
	Systems	5
**ACC 3303	Accounting for	
	Planning and	
	Control	5
MAN 3010	Organization and	
	Management	5
MAN 3712	Business and	
	Society	
or		
MAN 3602	International	
111111 5002	Business	5
ECO 3432	Applied	
200 5452	Macroeconomics	5
MAN 4630	International	
1000	Business Policy	
	(international	
	business majors)	
or		
MAN 4722	Policy Analysis	5
1011 11 1 1122		4

\*\*These courses should not be taken by students majoring in accounting. See page 00 for accounting core courses and programs.

Major: Required Courses	25
Approved Electives	15

TOTAL (does not include deficiencies) 90 NOTE: All electives must be approved in advance by the Department Chairperson.

## Prerequisites for Business Core Courses

ACC 3300 ACCOUNTING FOR DECISIONS - This course will be waived if student received a "C" grade or better in a Principles of Accounting sequence (This would be ACC 1001, & 1021, or ACC 1009, 1029, 1021 at Miami-Dade).

ECO 3003 ECONOMICS, MAN AND SOCI-ETY-This course will be waived if student received a "C" grade or better in Principles of Economics sequence (ECO 2013 & ECO 2023 at Miami-Dade).

STA 3132 QUANTITATIVE METHODS FOR ADMINISTRATION I-This course will be waived if student received a "C" grade or

# Accounting

better in a comparable level statistics course (STA 2014 at Miami-Dade).

FIN 3403 FINANCIAL MANAGEMENT-ACC 3300 or its equivalent (see above for ACC 3300).

MAN 3503 MANAGERIAL DECISION MAKING-College algebra, statistics, and QMB 3150 or its equivalent.

MAR 3023 MARKETING MANAGEMENT -- None.

QMB 3150 APPLICATION OF QUANTITA-TIVE METHODS IN BUSINESS-STA 3132, or its equivalent (see above for STA 3132) and college algebra.

CIS 3000 INTRODUCTION TO INFORMA-TION SYSTEMS computer programming proficiency requirement (COC 1300 at Miami-Dade, COP 3172 at FIU).

ACC 3303 ACCOUNTING FOR PLAN-NING AND CONTROL-ACC 3300 or its equivalent (see above for ACC 3300).

MAN 3010 ORGANIZATION AND MAN-AGEMENT-None.

MAN 3712 BUSINESS AND SOCIETY-ECO 3003 or its equivalent (see above for ECO 3003).

MAN 3602 INTERNATIONAL BUSINESS-ECO 3432.

ECO 3432 APPLIED MACROECONOMICS -ECO 3003 or its equivalent (see above for ECO 3003).

MAN 4630 INTERNATIONAL BUSINESS POLICY-Open only to international business majors in lieu of MAN 4722. Course should be taken in student's last academic quarter before graduation.

MAN 4722 BUSINESS POLICY-Completion of all core course requirements. Course should be taken in student's last academic quarter before graduation.

# Professional Accounting Majors

Irving L. Fantl, Professor and Chairperson Jack L. Carter, Assistant Professor Lucia S. Chang, Associate Professor Alf L. Erickson, Assistant Professor Donald W. Fair, Instructor and Assistant Dean Rosalie C. Hallbaner, Associate Professor Harvey S. Hendrickson, Professor David Lavin, Associate Professor avid Lavin, Associate Professor Myron S. Lubell, Associate Professor Kenneth S. Most, Professor Leandro S. Nunez, Instructor Edward P. Phillips, Assistant Professor Leonardo Rodriguez, Associate Professor

### Lois Slutsky, Instructor Doria Yeaman, Lecturer

The bachelor's degree program in accounting consists of three parts: the core (40 quarter hours), concentration in accounting (35 quarter-hours), and electives (15 quarter-hours), which must be selected from among the courses listed below or be approved by the Chairperson of the Accounting Department.

Courses for an emphasis in Managerial Accounting are:

*Required Courses:* ACC 4102, ACC 4122, ACC 4201, ACC 4301, ACC 4501, ACC 4731, ACC 4348

*Elective Courses:* ACC 4601, ACC 4648, ACC 4548, ACC 4522, MAN 4722, ACC 3949,ACC 4949, ECO 3101, ECO 4623, ECO 4134, ENC 3453, ENC 3353, (FIN 4000 Level Elective), BUL 4100, BUL 4661, MAN 5830, MAN 5831, MAN 5832, COP 3120, QMB 4680, MAN 4820, MAN 4523.

Courses for an emphasis in Financial and Public Accounting are:

*Required Courses:* ACC 4102, ACC 4122, ACC 4201, ACC 4301, ACC 4501, ACC 4601, ACC 4731.

*Elective Courses:* ACC 4648, ACC 4548, ACC 4522, ACC 4803, ACC 4271, ACC 4248, ACC 4348, MAN 4722, ACC 5111, ACC 5865, ACC 5211, ACC 3949, ACC 4949, ECO 3101, ECO 4623, ECO 4134, ENG 3453, ENG 3353, FIN (4000 Level Elective), BUL 4661, COP 3120.

# Florida CPA Requirement

Completion of a *Bachelor of Business Administration* with emphasis in accounting is accepted by the Florida State Board of Accountancy as fulfilling requirements to sit for the Certified Public Accounting Examination.

The law relating to the practice of public accounting (Chapter 473, Florida Statues 1969) provides in Rule 21A-9.02–Major in Accounting that:

For purposes of Section 473.08(4)(b), F.S., a major in accounting is defined as an educational program at accredited colleges or universities which includes at least 18 semester hours or 27 quarter hours, or the equivalent, in accounting education above the elementary level and 27 semester hours or 40 quarter hours, or the equivalent, in general business education. For this purpose, accounting hours above the minimum requirement may be substituted for general business hours.

# **School of Business**



# Academic Standards— Accounting

The upper-division undergraduate accounting program is designed to introduce the student to that common body of knowledge of business and accounting needed for the development and growth of the professional accountant in public accounting, industry, education, and government. The student is urged to acquire a broad, general education in the arts, the humanities and the sciences at the lower-divison level for his or her own personal development and growth.

Accounting is a profession with high entrance and retention standards. Since this program is designed to help prepare students for careers in the accounting profession, its grading, retention, and graduation standards also must be high. The student who earns a "D" or less in one or more of the first three courses taken (ACC 4102, ACC 4122, and ACC 4301) may not continue taking courses in the accounting program without written permission of the Chairperson of the Accounting Department. In addition, to qualify for the Bachelor of Business Administration degree with a major in accounting, the student must have a "C" average or better in all accounting courses attempted.

# Model Schedule–Public Accounting Major

The following is a model schedule (with several options) that must be followed by the typical full-time student who (1) has completed all of the freshman-sophomore requirements, and (2) wishes to complete the undergraduate accounting program with emphasis in public accounting. Deviations from this schedule must be approved by the Chairperson of the Accounting Department. (The student possessing a nonbusiness baccalaureate degree should consult a School of Business and Organizational Sciences academic counselor for alternative programs that meet the Florida State Board of Accountancy requirements).

# Finance, Insurance, International Business

Quarter I	Elective: ECO 3101,	
FIN 3403	ECO 4623, ECO	
QMB 3150	4134, ENC 3353, a	
MAN 3712	4000 level finance	L
	course or BUL 4661.	
	COP 3120	1
Note: Pre-core		
leficiencies must be		
ompleted in		
Ouarter 1.		
Quarter 2	Quarter 5	
ACC 4102	ACC 4601	1
MAN 3503		
	ACC 4201	
ECO3432		
Quarter 3	Elective: ACC 4648,	
ACC 4122	ACC 4548, ACC	
MAR 3023	4522, ACC 4248,	
MAN 3010	ACC 4348, a 4000	
	level finance course,	
	COP 3120	
	Quarter 6	
	MAN 4722	
	ACC 4731	
Duarter 4	Elective: BUL 4661.	1
ACC 4301	ACC 4648, ACC	
ACC 4501	4548, ACC 4522,	
	ACC 4248. or ACC	
	4348	
	070	

# **Finance Major**

Duane Kujawa, Professor and Chairperson Francis Deastlov, Assistant Professor Constantine Kalogeras, Associate Professor Arun Prakash, Assistant Professor Emmanuel Roussakis, Associate Professor William Welch, Associate Professor

LOCATION: Tamiami and North Miami Campuses

DEGREE: Bachelor of Business Administration The Finance program leading to the BBA degree is designed to give the undergraduate student managerial finance skills in the functional areas of banking, corporate finance, investments, and international finance. The program consists of (1) 50 quarter hours of general business core courses, (2) 10 quarter hours of finance core courses (FIN 4404 and FIN 4303), (3) a minimum of 15 quarter hours of finance specialization courses selected from the above mentioned functional areas, and (4) 15 quarter hours of elective courses. Students are urged to select economics, real estate, insurance, accounting, or additional finance courses as electives. The prerequisite for 4000 and 5000 level finance courses is FIN 3403.

Finance Progra	m core Courses:	Quarter	Hours
FIN 4303	Financial Marke	ts and	
	Institutions		5
FIN 4404	Policies for Fina	ncial	
	Management		5
Functional Are	as of Specializatio	n	
Banking:			
FIN 4313	Financial Histor	y of the	
	United States		4
FIN 4324	Commercial Ban	ık	
	Management		4
BAN 5651	Savings and Loa	ins I	4
Investments:			
FIN 4502	Securities Analy	sis	-
FIN 4504	Portfolio Analys	is and	
	Management		4
FIN 5515	Futures Trading		-
Corporate Find	ince:		
FIN 4419	Capital Budgetin	ng	
	Techniques and		
	Applications		4
FIN 5314	Working Capital	L	
	Management		4
FIN 5444	Leasing and Me	rgers	
FIN 5473	Small Business H	Finance	4
International F	inance:		
FIN 4611	International Fin	nancial	
	Management		4
See advisor for	additional specia	alization	
requirements			

5 5

5

5

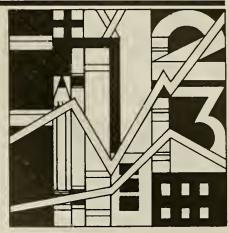
## **Insurance** Major

An insurance major is offered through the Department of Finance and International Business. An insurance major is required to take 25 quarter hours of insurance courses at the 4000 level. For most students majoring in insurance the following five courses are recommended:

RMI 4015	Principles of Insurance
RMI 4212	Property Insurance I
RMI 4213	Property Insurance II
RMI 4220	Casualty Insurance I
RMI 4221	Casualty Insurance II

These five insurance courses have been approved by the State of Florida Insurance Commissioner's office to fulfill the educational requirements for taking the 2-20 license examination.

A student may, however, after consultation with his or her major advisor, choose to take other courses such as RMI 4115–Life Insurance, RMI 4016–Management of Insurance Enterprise, or other insurance offerings. Students may also be eligible for the Certificate of Professional Insurance Accomplishment (for which see page 000).



## International Business Major

Duane Kujawa, Professor and Program
Coordinator
Francis Deastlov, Assistant Professor
Irving Fantl, Professor
Robert Grosse, Assistant Professor
Richard Hodgetts, Professor
David Lavin, Associate Professor and Associate
Dean
N. Paul Loomba, Professor and Dean
Jan B. Luytjes, Professor
Kenneth S. Most, Professor
Leonardo Rodriguez, Associate Professor
Emmanuel Roussakis, Associate Professor
F. Bruce Seaton, Associate Professor
George B. Simmons, Distinguished University
Professor
George Sutija, Associate Professor
Ronald H. Vogel, Associate Professor

# (For Non-Accounting Majors)

An International Business (IB) major is offered through the Department of Finance and International Business. The IB major must take MAN 3602-International Business in the business core. All 1B majors are required to declare a functional major (such as Finance, Management, or Marketing), and to satisfy the requirements of that major. In so doing, however, the international course in the functional major must be taken (such as FIN 4611-International Financial Management or MAR 4243-International Marketing). In addition, the elective courses (three minimum) provided for in the functional majors must be selected from the following (exclusive of the international course in the declared functional major), with the concurrence of the International Business program coordinator.

ACC 4271	International Accounting
FIN 4611	International Financial
	Management
MAN 4600	International Management

# School of Business

# Management

ECS 3003	Comparative Economic
	Systems
ECO 4701	World Economy
ECO 4733	Multinational Corporation
(See advisor	for additional electives)

The capstone course, MAN 4630-International Business Policy, is required of all IB majors in lieu of MAN 4722-Policy Analysis. It should be taken in the final quarter prior to graduation. The IB major is offered only as a second major, but ordinarily would not involve additional course work beyond that required in the single major programs. Accordingly, students selecting the IB option will graduate as dual majors in the functional field of their choice and International Business.

# (For Accounting Majors)

The Accounting-International Business dual major is essentially that described above, but with slight modification. International Business and MAN 4630-International Business Policy, are required. In addition to the seven senior level courses required of Accounting majors, the Accounting-IB dual major must take ACC 4271-International Accounting as an elective. He must also select two electives from the list of electives noted above. FIN 4611-International Financial Management is highly recommended as one of these. The dual major is designed so that a student may normally complete it within the total 90 credit hour degree requirement of the University.

## Management Major

Enzo R. Valenzi, Associate Professor and Chairperson Steve Altman, Associate Professor and Associate Vice President, Academic Affairs Elias M. Awad, Professor Israel Brosh, Visiting Associate Professor Wayne F. Cascio, Associate Professor Gary Dessler, Professor Herman W. Dorsett, Associate Professor Dana Farrow, Assistant Professor Ernest Friday, Assistant Professor Edward L. Hannan, Associate Professor Richard M. Hodgetts, Professor and Chairperson, Marketing & Environment Robert H. Hogner, Associate Professor William T. Jerome, Distinguished University Professor N. Paul Loomba, Professor and Dean Jan B. Luytjes, Professor Karl O. Magnusen, Associate Professor and Associate Deon

Joan Mills, Assistant Professor Frederick F. Newpeck, Associate Professor J. A. F. Nicholls, Associate Professor Alan J. Parker, Associate Professor Daniel J. Robey, Associate Professor Leonardo Rodriguez, Associate Professor Gloria Shapiro, Assistant Professor Larry Smith, Associate Professor William M. Taggart, Associate Professor Efraim Turban, Professor

LOCATION: Tamiami and North Miami Campus

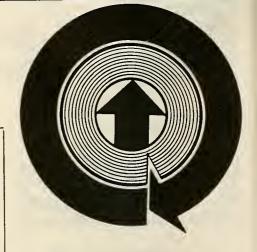
DEGREE: Bachelor of Business Administration The Department of Management offers degree programs of study at the bachelor's level in Organizational Theory, Personnel Management, Behavioral Science, Management Science, and Information Systems. The student is given wide latitude either to specialize in one particular area, or to select from courses on a more general level of professional education. The Management major requires 20 quarter hours of courses listed with the Management Department at the 4000 or 5000 level. MAN 4521 (Operations Planning and Control) is required for all students within the 20 hours requirement with the exception of those selecting the Per-

sonnel Management track.

Alternative suggestions for course selections in various tracks follow the suggested general program of study below.

Quarter 1	Quarter 4
QMB 3150	ECO 3432
ACC 3303	One course in the
MAN 3010	Management
	Department
	One elective course*
Quarter 2	Quarter 5
FIN 3403	Two courses in the
MAN 3503	Management
MAR 3023	Department
	One elective*
Quarter 3	Quarter 6
CIS 3000	MAN 4722
MAN 3712	Two electives*
MAN 4521	

\*Elective courses outside SBOS should be taken in the Departments of Economics, Mathematical Sciences, or Psychology. Exceptions may be permitted with the approval of the Department Chairperson.



Alternative courses for Management students in specific subject areas:

1. Personnel Management (Select 4 of 5) MAN 4401 Industrial Relations MAN 4410 Labor, Managment, and Collective Bargaining MAN 4301 Personnel Management MAN 4320 Personnel Recruitment and Selection MAN 4330 Wage and Salary Administra-

tion.

2. Information Systems.

MAN 4820 Systems Anaysis and Design MAN 4821 Information Systems Development MAN 4822 Systems Management

MAN 4521 Operations Planning and Control.

- 3. Management: Option A.
  - MAN 4521 Operations Planning and Control

MAN 4201 Organization Theory

MAN 4151 Behavioral Sciences in Management

MAN 4120 Intergroup Relations in Organizations.

4. Management: Option B. MAN 4521 Operations Planning and Control

MAN 4600 International Management MAN 4201 Organization Theory

- MAN 4802 Small Business Management.
- 5. Management: Option C. MAN 4521 Operations Planning and

Control Any three (3) other courses listed with the

Management Department.

# Marketing, Real Estate, Transportation Management

# **Marketing Major**

Richard M. Hodgetts, Professor and Chairperson Anne Fiedler, Instructor Lynda Raheem, Instructor Sydney Rosłow, Associate Professor Willard M. Salzer, Associate Professor F. Bruce Seaton, Associate Professor Robert J. Thomas, Assistant Professor Ronald H. Vogel, Associate Professor

The bachelor's degree program in marketing necessitates 25 quarter hours of marketing courses at the senior (4000) level. Of these quarter hours, 15 hours consist of the following required courses:

MAR 4503	Consumer Behavior
MAR 4613	Marketing Research
MAR 4713	Cases in Marketing
	Management

The remaining 10 credit hours may be selected by the student with his or her advisor from other marketing course offerings. It is suggested that students concentrate in a specific area and take, for example:

1. Advertising Concentration

MAR 4303 Advertising Management MAR 4344 Advertising Campaign Management

- 2. Retailing Concentration MAR 4153 Retailing Management MAR 4154 Cases in Retailing Management
- 3. International Concentration MAR 4243 International Marketing MAR 4244 Export Marketing
- Distribution Concentration MAR 4203 Marketing Channels MAR 4213 Transportation Logistics Marketing majors, however, are not limited

to the above concentrations and may choose courses from any other marketing offerings or any mix of courses.

# **Real Estate Major**

William R. Beaton, Professor Vance R. Johnson, Assistant Professor

A real estate major at the bachelor's degree level is offered through the Department of Finance and International Business within the School of Business and Organizational Sciences. The real estate major is expected to take 25 quarter hours within the real estate course offerings or, with the consent of his or her advisor, in an allied field. Under normal circumstances a real estate major without previous formal undergraduate work in the area will be expected to take the two introductory courses (REE 4040-Introduction to Real Estate, and REE 4430-Legal Environment of Real Estate), as well as three other 5 quarter hour courses chosen with the consent of his or her major advisor.

# Transportation Management Major

A bachelor's degree program with a major in Transportation Management is offered through the Department of Marketing. The student who wishes to major in Transportation Management is required to take 25 quarter hours of transportation management courses at the senior (4000) level. The student is required to take TRA 4240 -Transportation Systems and Services for 5 quarter hours of major field credit. Besides this course, the student is encouraged to take other courses in transportation management (such as TRA 4012 Transportation Logistics; TRA 4101 -Transportation Rate Making; TRA 4203-Physical Distribution Management; and TRA 4510-Mass Transportation and Urban Problems), or three courses in a field such as air transportation (as TRA 4410-Air Transportation; TRA 4411-Airport Management; and TRA 4412-Air Carrier Management).

# Graduate Study: General Information

The Graduate Programs of the School of Business and Organizational Sciences offer the student advanced professional education for managerial careers in business and government. At the graduate level, the degrees of *Master of Business Administration, Master of International Business,* and *Master of Science in Management,* in Accounting, Finance, or Real Estate are offered.

Generally, graduate programs in the School of Business and Organizational Sciences are aimed at accomplishing two objectives. The first objective is to provide the student with a sound foundation in a variety of management functions, such as marketing, production, accounting, finance, quantitative methods, decision-making, and behavioral science. Based upon this foundation, the second objective of the programs in the School is to provide students with a specialization and expertise in a



particular area of management, so as to facilitate the student's performance on his or her entry or second level job.

# **Admission Requirements**

To be eligible for admission to the graduate programs in the School of Business and Organizational Sciences at Florida International, the applicant must:

- Satisfactorily meet the general University requirements for admission to graduate programs.
- 2. Hold a bachelor's degree from a regionally accredited college or university.
- 3. Meet the minimum standards regarding entrance examination scores and upper-division grades as determined by the faculty: a) Admission to the Master of Business Administration (MBA) and the Master of Science in Management-Accounting, Finance, and Real Estate programs will be based upon a combination of the score on the Graduate Management Admissions Test (GMAT) and the upper division grade-point average (GPA). Specifically, the applicant must have a combined score of at least 1000 points, computed as follows:

(GPA X 200) + (GMAT score) = 1000, with a minimum 450 on the GMAT.

b) Admission to the *Master of International Business* program will be based upon either an upper division grade point average of 3.0 or higher or a score of 450 or better on the *Graduate Management Admissions Test* (*GMAT*). Every applicant is required to take the GMAT test.

- 4. Present, if a foreign student, a minimum score of 500 on the TOEFL, or equivalent on a comparable examination. (See General Admission Requirements for Foreign Students (undergraduates and graduates) in the Admission section of the catalog).
- 5. Be in good standing with previous colleges or universities attended.

# **Graduate Study**

## Application Procedures for the Master of Business Administration, Master of International Business, and Master of Science in Management Programs

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

- Submit a graduate application for admission to the Admissions Office of Florida International. Application forms will be mailed upon request. The admission process may require as much as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
- 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 of Florida International. (Copies submitted directly by applicants are *not* accepted for application purposes).
- 3. All candidates applying to the MBA, MIB, or MSM Accounting. Finance, and Real Estate programs must submit his or her scores on the *Graduote Management Admissions Test (GMAT)*, administered nationally by the Educational Testing Service (Box 966, Princeton, New Jersey 08540). Registration forms will be mailed upon request.

# **Degree Requirements**

To be eligible for a Master's degree, a student must:

- 1. Satisfy all University requirements for a master's degree.
- 2. Meet the requirements of an approved Program of Study.\*
- 3. (a) Complete a minimum of 45 quarter hours (depending on program) of graduate level coursework, for the *Master of Science in Management* programs.
  - (b) Complete a minimum 60 quarter hours of graduate level coursework, for the Master of Business Administration or Master of International Business.
- 4. Earn a minimum average of "B" (3.0) or the equivalent in all work completed at F1U as a graduate student.

\*The student's Program of Study is developed by the student and his faculty advisor and must be approved by the Department Chairperson and the Dean of the School of Business and Organizational Sciences.

# **Graduation Procedures**

See the procedures in the General Information section of the University catalog.

# **Grades and Credits**

No courses in which a grade below "C" is earned may be counted toward the MBA, MIB, or MSM degrees. However, all work taken as a graduate student will be counted in computing the grade point average, including courses graded "D" or "F", and any undergraduate courses taken while a graduate student.

# **Transfer Credit**

The student may receive permission to transfer up to a maximum of 10 quarter hours of graduate credit to his or her degree program, provided that: (1) the course(s) were taken at the graduate level at an accredited college or university; (2) the course(s) were not introductory or "survey" in nature; (3) grade(s) of "B" or better were earned; (4) the course(s) are judged by the faculty advisor, Department Chairperson, and Dean to be relevant to the student's graduate program; and (5) the credit(s) were not used toward another degree. Credit is not transferable until the student has earned 25 quarter hours in his School of Business and Organizational Sciences graduate program. Students wishing to transfer to the School of Business and Organizational Sciences must be in good standing at their previous school or college.

# Maximum Recommended Course Loads

Full time students Students working full or part-time

 Students working full or part-time
 5

 Approval for exceptions must be obtained from the Dean or his designee.

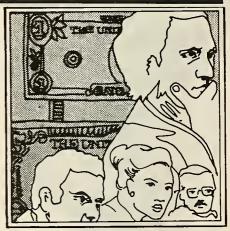
**Ouarter Hours** 

10

# Special Student Registration

Only fully admitted graduate students may register for MBA courses with the exception of ACC 6011 and QMB 6603. The special student should be counseled by the appropriate faculty advisor before registering for any courses.

# School of Business



# Five thousand-Level Courses

5000-level courses are open to graduate students and seniors. *Master of Science in Management* students may take a maximum of three 5000-level courses. All other courses in the student's program must be at the 6000-level (courses which are only open to graduate students). *Master of Business Administration* students will normally take all work at the 6000 level.

# Time Limit

All work applicable to the master's degree must be completed within six years immediately preceding the awarding of the degree, and within five years of the student's first admission to graduate study in the School of Business and Organizational Sciences.

# Change of Major

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

# Academic Warning, Probation, and Dismissal

WARNING: A student whose cumulative GPA falls below a 3.0 will be placed on WARNING indicating academic difficulty.

**PROBATION:** A student on WARNING whose cumulative GPA falls below 3.0 will be placed on PROBATION indicating serious academic difficulty. The College/School of the student on PROBATION will appropriately communicate conditions which must be met in order to continue to enroll in the program.

DISMISSAL: A student on PROBATION whose cumulative and quarterly GPA falls below 3.0 will be automatically dismissed from his/her program and the University.

# **Business Administration**

## Master of Business Administration (MBA)

The objective of the *Master of Business Administration* (MBA) program is to provide the student with a general background in the concepts and processes of administration. The MBA program at Florida International is aimed at developing a management generalist who has a breadth of knowledge and understanding, and who is oriented toward pragmatic problem solving. Limited specialized training is available for the student who has the necessary background.

The courses leading to the MBA degree are designed to provide a breadth of experience in the tools and concepts of business administration. The total MBA program is fixed at 60 quarter hours of the MBA courses. The courses are categorized by area, with a regular MBA course and substitute(s) for each category. If a student tests-out or is counseled out of the "regular" course(s), he or she must select one of the substitutes in the same category. To be eligible for testing or counseling out of a "regular" course, the student should have previously completed at least three to four courses in that functional area at the upper division level with above-satisfactory grades. Electives may be taken from any of the 6000 level offerings in Business Administration. Students whose background in accounting or statistics is evaluated to be inadequate will be required to complete ACC 6011 (Managerial/Financial Accounting) and/or QMB 6603 (Quantitative Methods in Management).

	MBA PROGRA	4 <i>M</i>
Area	Regular	Possible
	Course	Substitute
		Courses <sup>1</sup>
Economics*	ECP 6704	An elective in
(Micro/	Managerial	either
Macro)	Economics	Marketing or
		Finance. This
		substitute is
		only available
		to an
		economics
		major.

Information	MAN 6830	MAN 6833
Systems	Organization	Information
	Information	Systems
0 1 1	Systems	Planning
Quantitative	MAN 6721	MAN 6836
Methods*	Managerial	Systems
	Decision	Analysis
	making	
Accounting**	ACC 6313	ACC 6411
	Accounting	Managerial
	for Decision-	Accounting 1
	making	ACC 6391
		Seminar in
		Managerial
		Accounting I
		ACC 6291
		Seminar in
		Financial
		Accounting
		Theory
		ACC 6651
		Studies in
		Auditing ACC 6512
		Income Tax
		Planning and Research
Finance	FIN 6428	FIN 6636
(Corporate)	Financial	International
(corporate)	Management	Finance
•	management	F1N 6246
		Financial
		Markets
		FIN 6806
		Theory of
		Finance
Operations	MAN 6501	MAN 6836
Marketing	Operations	Systems
	Management	Analysis
	MAR 6716	MAR 6246
	Marketing	Advanced
	0	
	Management	International
	Management	Marketing
Management	Management MAN 6205	
Management		Marketing
Management	MAN 6205	Marketing MAN 6112
Management	MAN 6205 Organizational	Marketing MAN 6112 Group
Management	MAN 6205 Organizational	Marketing MAN 6112 Group Processes in
Management	MAN 6205 Organizational	Marketing MAN 6112 Group Processes in Organizations MAN 6405 Labor
Management	MAN 6205 Organizational	Marketing MAN 6112 Group Processes in Organizations MAN 6405
Management	MAN 6205 Organizational	Marketing MAN 6112 Group Processes in Organizations MAN 6405 Labor
Management	MAN 6205 Organizational	Marketing MAN 6112 Group Processes in Organizations MAN 6405 Labor Relations

Énvironment	MAN 6713	BUL 6124
	International	Survey of
	Business	Business Lav
	Environment	MAN 6725
		Internationa
		Business
		Policy
Policy	MAN 6726	(No
Electives	Policy	substitutes)
	Analysis	
	Two 6000 level	
	business	
	administration	
	courses (10	
	quarter hours),	
	depending	
	upon the	
	waiver of ACC	2
	6011 and	
	QMB 6603	
<sup>1</sup> See the gui	telines under prog	gram descripti
above.		

\*For the student without STA 3132 and QMB 3150 (college algebra and statistics) background, QMB 6603 will replace *one* elective, to be taken *prior* to ECP 6704 and MAN 6721.

on

\*\*For the student without ACC 3300 and ACC 3303 (financial and managerial accounting) background, ACC 6011 will replace one elective, to be taken prior to ACC 6313 and FIN 6428. NOTE: The first four categories-economics, information systems, quantitative methods, and accounting-must be satisfied prior to taking any other MBA courses. The policy course has to be scheduled for the *last* quarter of MBA study. Two electives are allowable within the program, except as noted.

# BUS 10

# School of Business

# International Business, Management, Accounting

# Master of International Business

The Master of International Business program is a 60 quarter hour program designed to acquaint students with the international environment and provide basic management tools and solid preparation in one area of specialization. The first block of five core courses will give the student a conceptual framework of international business, economic development and comparative politics. These courses will deal with international corporations, international development and international cooperation. The second block of four courses will give the student a general background in accounting, finance, management, and marketing. Each student will then specialize in one of the major areas (accounting, finance, management, marketing, or banking) taking three additional courses in his/her chosen field. All students will be required to demonstrate competence in quantitative methods, or will be required to take the course QMB 6603. Each candidate will also be required to demonstrate basic reading and/or speaking competence in one major world commercial language.

### PROGRAM OF STUDY

n · 10

Quarter Hours

Requirea Cour:	ses:		
INTERNATIO	ONAL STUDIES		20
ECO 5701	The World Economy	5	
INR 6603	World Politics	5	
INR 6605	The Contemporary		
	International System	5	
MAN 6713	International Business		
	Environment	5	
GENERAL BU	USINESS		25
ACC 6011	Financial Accounting		
	Analysis	5	
MAN 6205	Organizational		
	Analysis	5	
FIN 6428	Financial Management	5	
MAR 6716	Marketing		
	Management	5	
MAN 6725	International Business		
	Policy	5	
Specialization:			15
ACCOUNTIN	G:		
ACC 6275	International		
	Accounting	5	
ACC 6411	Managerial Accounting	5	
ACC 6582	International Taxation	5	
FINANCE:			
FIN 6246	Financial Markets	5	
FIN 6636	International Finance	5	
F1N 6806	The Theory of Finance	5	
MARKETING			
MAR 6246	Advanced		
	International		

MAR 6617	Marketing Research	5
MAR 6717	Advanced Marketing	
	Management 4	5
MANAGEME	NT:	
MAN 6601	International	
	Management	5
MAN 6603	Problems in	
	Comparative	
	Management	5
MAN 6604	Comparative	
	Management Analysis	5
BANKING:		
BAN 5652	Savings and Loan II.	
	Prequisite BAN 5651	
	or approval of	
	chairperson	5
FIN 6625	International Bank	
	Management	5
F1N 6315	Management of	
	Deposit Institutions	5
		60
		00

## Waster of Science in Management (MSM)

The Master of Science in Management program provides an in-depth educational experience for the student desiring greater specialization in a particular area.

Concentrations within the *Master of Science in Management* program are avilable in the following areas: Accounting (including taxation). Finance, and Real Estate.

The Master of Science in Management program is a one to two year sequence, depending upon the specific program and the applicability of the student's undergraduate course work. The type and number of prerequisite courses varies with the area of concentration. Each student will be counseled concerning his individual needs.

## **MSM** Accounting

The MSM program in Accounting is designed primarily for the student with an undergraduate degree in Accounting. The student with a bachelor's degree in another field may be admitted to this program, but will be required to complete preparatory courses in business and accounting.

Due to varied career opportunities, the MSM program in Accounting is divided into four subprograms, and many variations are possible. The Managerial Accounting program is designed for the student who aspires to be an officer in a business corporation, a governmental unit, or a not-for-profit organization. The Public Accounting program is designed for the student who aspires to be a Certified Public Accountant and leader in the public accounting



profession. The International Accounting program is designed for the student who aspires to a professional career with an international accounting firm, a multinational corporation, an international public organization, or an institution in a developing country. The Taxation program is designed for the student who aspires to a career as a tax professional in public accounting, law, industry. education, or government.

A student who earns an MSM in Accounting and successfully passes the Certified Public Accountant Examination usually will qualify to receive a certificate as a Certified Public Accountant. An explanation of the relevant Florida Statue follows.

## Florida CPA Requirement

Completion of a *Bachelor of Business Administration* with emphasis in accounting is accepted by the Florida State Board of Accountancy as fulfilling requirements to sit for the Certified Public Accountant Examination. (For the law relating to the practice of public accounting in which Major in Accounting is defined see Rule 21A-9.02 on page 000).

Ordinarily a person passing the CPA Examination must complete one year of employment in the office of a Florida or out-of-state practitioner before receiving a certificate as a Certified Public Accountant. However, the law relating to the practice of public accounting provides in Rule 21A-9.03 that:

An additional one year accounting course, acceptable in lieu of one year of employment, is defined as a minimum of 30 semester hours or 45 quarter hours, or the equivalent, in courses which would qualify for -graduate level credit at accredited colleges or universities, which shall include at least 12 semester or 18 quarter hours, or the equivalent, in post-baccalaureate accounting education. For purposes of this rule, courses used to satisfy Rule 21A-9.02 may not be included in the additional one year accounting course.

Each of the four subprograms (or specializations) in the MSM Accounting program has been designed to allow the student to specialize. Thus, the choice of a specialization predetermines most of a student's course requirements. Each student must work with the graduate advisor in designing his (or her) own program of study in compliance with the requirements of the chosen specialization. The following is the outline of a general program of study:

# Finance

### PROGRAM OF STUDY

Quarter Hours

20

Required Courses: selected from the courses below; 15 of the required hours must be at the 6000 level.

ACC	5111	Standards and Principles of	
		Financial Accounting	5
ACC	5131	Advanced Financial	
		Accounting	5
ACC		Accounting Problems <sup>1</sup>	5
ACC	5311	Financial Accounting	5
ACC	5511	Accounting for Income	
		Taxes	5
ACC	5611	Auditing	5
ACC	5734	Accounting Information	
		Systems Analysis	5
ACC	5865	Governmental and	
		Institutional Accounting	5
ACC	6275	International Accounting <sup>1 4</sup>	5
ACC	6291	Seminar in Accounting	
		Theory 1 <sup>1/2</sup>	5
ACC	6391	Seminar in Managerial	
		Accounting I1 2	5
ACC	6411	Managerial Accounting <sup>1 2</sup>	5
ACC	6512	Income Tax Planning and	
		Research <sup>1/3</sup>	5
ACC	6531	Taxation of Corporations 13	5
ACC	6553	Estates and Gift Taxation <sup>3</sup>	5
ACC	6554	Tax Accounting Theories	
		and Procedures <sup>3</sup>	5
ACC	6555	Taxation of Corporations	
		113	5
ACC	6556	Partnership Taxation and	
		Tax Shelters <sup>3</sup>	5
ACC	6557	Fiduciary Accounting and	
		Taxation <sup>3</sup>	5
ACC	6558	Current Developments in	
		Taxation <sup>3</sup>	5
ACC ACC	6559	Seminar in Taxation <sup>3</sup>	5
ACC	6582	International Taxation <sup>3,4</sup>	5
ACC		Studies in Auditing <sup>1</sup>	5
ACC	6735	Seminar in Accounting	
		Information Systems 11.2	5
ACC	6745		
		Information Systems 11 <sup>2</sup>	5
	6822		5
ACC	6832	Accounting and	
		Quantitative Methods	5
ACC	6845	Seminar in Managerial	
		Accounting 11 <sup>2</sup>	-5

ACC 6932 Seminar in Accounting		
Theory II <sup>1</sup>	5	
Masters Project (Required <sup>5</sup> )		
ACC 6910		5
Elective: Selected with permission of		
faculty advisor		20
		45

<sup>1</sup>Designed primarily for the Public Accounting subprogram. <sup>2</sup>Designed primarily for the Managerial Ac-

counting subprogram.

<sup>3</sup>Designed primarily for the Taxation subprogram

<sup>4</sup>Designed primarily for the International Accounting subprogram.

<sup>5</sup>With the approval of the graduate advisor, a student may substitute a graduate level, research-oriented accounting course for ACC 6910.

## **MSM** Finance

PURPOSE: The graduate program leading to the degree of Master of Science in Management (MSM) is offered for students who want to concentrate in the specific area of Finance. The MSM Program in Finance is designed to develop analytical skills and decision-making abilities in the solution of problems related to obtaining and utilizing funds. Graduates will be able to demonstrate a suitable competence in handling complex financial and investment sitnations. Graduates also will have a good institutional knowledge of financial and capital markets, instruments, and current developments and opportunities available to investors, financial institutions, and corporate enterprise. CONTENT AND STRUCTURE: The program consists of sixty quarter hours (twelve courses) divided into three groups as follows:

- Six general/functional core courses: All participating students are required to take these courses. However, eligible students, with counselor approval, can waive several of these courses based on their previous education. Waived courses become electives. Electives can be selected from the Finance specialization courses or Accounting, Economics, Real Estate, or Computers. This feature differs from the MBA Program which has few electives.
  - A. Three of the core courses are of the general background type. They cover the subject of general management, economics, and quantitative methods.
  - B. Three of the core courses cover specific functions in business such as accounting, the processing of information, and marketing.
- 2. Three Finance core courses: All MSM Finance students are required to take three

general Finance courses which cannot be waived. The courses are designed to give the student a working knowledge of basic financial management, financial theory, and financial markets.

3. Three finance specialization courses: Each student will select courses from a number of finance offerings that will be available. A further concentration in a particular subject such as corporate finance, investment, or financial institutions, is possible and encouraged. Individual faculty counseling is available to provide assistance in designing a field of specialization, if desired.

The sixty quarter hours may be reduced to forty-five for students who possess a Master's Degree in an approved field. Up to two graduate courses may be transferred in from another accredited school, even if no advanced degree was obtained.

Generally, students with the BBA degree will satisfy the general core course requirements and they may enroll in additional specialization courses. Functional core courses may also be waived with the approval of the faculty counselor. In this case, students are encouraged to substitute for each waived course a graduate course in the same field. Thus, the program is sufficiently flexible to provide depth in finance and/or breadth in business and management. *COURSES* 

COUNSES		
General Core Courses		
ECP 6704	Managerial Economics	
MAN 6205	Organizational Analysis	
QMB 6603	Quantitative Methods in	
	Management	
Functional Con	e Courses	
ACC 6011	Financial Accounting Analysis	
MAN 6830	Organizational Information	
	Systems	
MAR 6716	Marketing Management	
Finance Core C	Courses	
FIN 6246	Financial Markets and	
	Institutions	
FIN 6428	Financial Management	
FIN 6806	Theory of Finance	
Specialization (	Courses	
BAN 5652	Savings and Loans II.	
	Prerequisite BAN 5651 or	
	approval of Chairperson.	
FIN 5314	Working Capital Management	
FIN 5473	Small Business Finance	
FIN 5515	Futures Trading	
FIN 6315	Management of Deposit	
	Institutions (Banking)	
F1N 6316	Management of Nondeposit	
	Institutions	
FIN 6325	Current Issues in Commercial	
	Banking	
FIN 6426	Financial Management Policies	
F1N 6436	Capital Budgeting and Long-	
	term Resource Allocation	

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# School of Business

# Real Estate, Certificate Programs Banking

FIN 6456	Quantitative Methods in
	Financial Analysis
FIN 6516	Securities Analysis
FIN 6525	Portfolio Management
FIN 6636	International Finance
FIN 6716	Financial Management of
	Governmental Organizatións
FIN 6906	Independent Study in Finance
FIN 6915	Master's Project in Finance
F1N 6936	Special Topics in Finance

# MSM Real Estate and Urban Development

A Master of Science in Management with a concentration in Real Estate is available to persons interested in graduate work in Real Estate.

University graduates in Real Estate find employment in: land planning and development; real estate investing and counseling; environmental planning; development of new cities; international real estate; recreational land use development; construction management; corporate real estate divisions; governmental agencies; appraising; marketing of residential, commercial, and industrial properties; property management, such as of large apartment complexes, office buildings, and shopping centers; conventional and creative real estate financing through financial institutions, such as commercial banks, savings and loan associations, life insurance companies, mortgage bankers and mortgage brokers; and teaching, in the rapidly growing field of real estate education. Further, competent real estate talent is being called upon for participation in the rapidly growing field of real estate syndication, limited partnerships and joint ventures.

*Program Prerequisities:* one semester or quarter of financial management; two semesters or quarters of economics; or an undergraduate major in business administration.

Following a student's admission to the graduate program in Real Estate and Regional Development, each graduate student will develop an individual program of studies agreed to by his faculty advisor.

# **Certificate Programs: General Information**

The overall purpose of the certificate programs is to provide *practicing managers* with advanced training in the techniques and methods pertinent to their areas. The programs are for both degree and non-degree seeking students, and are available in the areas of Banking, Insurance, Information Systems, Marketing, Personnel Management, Savings and Loan, and Transportation Management. A certificate is awarded upon successful completion of each program.

## Banking Certificate General Description

The CIB (Certificate in Banking) core program consists of four undergraduate/graduate Finance courses representing approximately 200 contact hours between instructors and participants. Participants enrolled in the Certificate program may elect to take each course for a grade or on a credit-only basis. Upon successful completion of the four course sequence, a Certificate signed by the Dean of the School of Business and Organizational Sciences will be awarded.

Participants with the appropriate educational background are expected to complete the Certificate program within a twelve-month period. This could be accomplished by enrolling in one finance course each quarter for four successive quarters. Applicants not possessing the appropriate educational background may fulfill the program prerequisities by successfully completing ACC 3300, FIN 3403, and ECO 3432. *Program Goals* 

Togram Goals

- To acquaint the participant with the investment, financing, and other policy decisions within the scope of the corporate finance officer's authority structure.
- To acquaint the participant with the functioning of the American capital markets and the institutions which service these markets.
- To survey commercial bank management techniques and methods of operation. Emphasis is placed on the goals of the commercial bank and the methods of obtaining these goals.
- 4. To develop in the participant the ability to systematize the business loan evaluation process in order to make sound rational credit-loan decisions.
- Course Requirements
- Basic requirements: students with an undergraduate degree in business administration or those who have completed equivalent courses may have these courses waived.

ACC 3300	Accounting for Decisions
FIN 3403	Financial Management
ECO 3432	Applied Macroeconomics

- 2. Specific program requirements for the Certificate in Banking program.
  - FIN 5406 Policies for financial management-The process of securing and allocating funds within the business organization, with emphasis on the relevant financial decisionmaking and policy aspects.



F1N 5305	Financial intermediaries and markets—The role of finan- cial institutions; the sources and uses of funds of financial intermediaries; the objectives and constraints of these in- termediaries; and the supply and demand for loanable funds in different financial
F1N 5326	markets. Commercial bank manage- ment-The management of bank assets and liabilities; specialized banking func- tions; and the role of the commercial bank in financing business.
FIN 5345	Credit analysis and loan eval- uation-Topics to include: in- troduction to commercial lending; secured lending: ac- counts receivable financing and factoring; inventory financing; introduction to lending vehicles: short term lending; domestic taxation; consolidations, forecasting and intermediate term cash flow lending; term loan agreements/covenants; sub- ordinations and guarantees; foreign exchange: interna- tional transactions; and leas- ing.

Enrollment in the program is limited to forty students each year and is open only to bank personnel. Each course will meet for four hours and 10 minutes one day each week during the academic quarter. Classes are normally held at the Florida International University Downtown Center, which is currently located at the Miami Dade New World Center.

# **Certificate Programs** Insurance, Information Systems, Marketing, Personnel Management

# **Insurance** Certificate

The Certificate Program in Professional Insurance Accomplishment is designed to enable individuals in (or wishing to enter) the insurance industry to obtain recognition for their attainments in insurance education.

The courses leading to the Certificate may be taken by both degree-seeking students as part of their regular programs, or by special, non-degree seeking students who may be seeking professional recognition and qualifications.

The Certificate Program requires participants to obtain 30 quarter hours, or six five-credit hour classes, in 4000 level insurance courses. The Insurance Certificate requires participants to take five required courses and one elective course. Students must earn a "C" grade or better in each course taken.

Those required are:

RMI 4015	Introduction to Insurance
RMI 4212	Property Insurance I
RMI 4213	Property Insurance II
RMI 4220	Casualty Insurance I
RMI 4221	Casualty Insurance II
The elective she	ould normally be selected from

ach courses as	•
RMI 4115	Life Insurance
RMI 4135	Employee Fringe Benefit
	Programs
RMI 4145	Business and Estate Insurance
	Planning

Inquiries concerning the Certificate in Professional Insurance Accomplishment should be addressed to the Department of Finance and International Business.

## Information Systems Certificate

This program is designed as a three course undergraduate sequence for systems professionals and users heavily involved in information systems development. These courses may be taken as part of a regular degree program or as a special student not pursuing a formal degree. The purpose of the program is to provide advanced study to complement the work experience of practitioners who deal with information systems problems on-a regular basis. The sequence consists of three courses to provide this complementary background.

MAN 4820	Systems Analysis and Design
MAN 4821	Information Systems
	Development
MAN 4822	Systems Management

Additional information about these offerings may be obtained from the 1S Certificate Program Coordinator in the Department of Management.

# **Marketing Certificate**

A Certificate in Marketing program is offered through the Department of Marketing. The Certificate program is open to both degree and non-degree seeking students interested in acquiring knowledge and skills in Marketing, and documentary evidence of their accomplishment. The Certificate program is aimed specifically at majors throughout the University, particularly those students in the College of Arts and Sciences and the professional schools, and at individuals currently working in the business world. The Certificate program seeks to enhance individual capabilities for the discharge of responsibilities at a high performance level, while giving a measure of professional recognition for the achievement of significant competence in the field.

The Certificate program is comprised of a set of six five-credit hour undergraduate marketing courses—one introductory course at the junior (3000) level, the prerequisite for all the other courses in the program, and five at the senior (4000) level.

There are three Required Courses:

MAR 3023	Marketing Management
MAR 4153	Retailing Management I
MAR 4303	Advertising Management

For their electives, students are recommended to take three courses from the following regularly offered Marketing classes and other selected courses:

MAN 3712	Business & Society
MAR 4154	Cases in Retailing
	Management
MAR 4713	Cases in Marketing
	Management
MAR 4243	International Marketing
MAR 4503	Consumer Behavior
MAR 4613	Marketing Research
MAR 4344	Advertising Campaign
	Management
MAR 4103	Personal Selling
MAR 4203	Marketing Channels
MAR 4723	Marketing of Small Business
	Enterprises

On satisfactory completion of the program, signified by a "C" grade or better in each course, students will, on application, receive a Certificate in Marketing signed by the Departmental Chairperson and Dean of the School of Business and Organizational Sciences.



# Personnel Management Certificate

The objective of the Certificate program in Personnel Management is to provide training in advanced personnel management techniques and methods to personnel professionals who do not necessarily wish to seek a degree. The program is aimed at developing immediately applicable skills in individuals who are assumed to already have an adequate foundation in the concepts and role of the personnel management function. A Certificate of Completion signed by the Department Chairperson and the Dean of the School will be awarded to any student who completes one prerequisite statistics course and the program of four five-credit hour courses (20 hour total) in the personnel management areas of concentration at the graduate level. A "B" average is required for successful completion of the program.

*Course Sequence:* The Certificate program consists of the following four required courses, which must be taken in this order:

MAN 5930	FALL: Seminar in Personnel
	Management
MAN 6321	WINTER: Personnel
	Selection and Placement
MAN 6405	SPRING: Labor Relations
MAN 6351	SUMMER: Personnel
	Training and Development

For students who desire to take additional elective courses, the following are recommended:

commended.	
MAN 6331	Compensation
	Administration
MAN 6411	Collective Bargaining
MAN 4151	Behavioral Science in
	Management

For information concerning admission to the program contact the Division of Management.

# School of Business

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# **Certificate Programs** Savings and Loan **Transportation Management**

## Savings and Loan Certificate

The certificate program consists of four undergraduate/graduate finance courses representing approximately 200 contact hours between instructors and participants. Participants enrolled in the certificate program may elect to take each course for a grade or on a credit-only basis. Upon successful completion of the four-course sequence, a certificate signed by the Dean of the School of Business and Organizational Sciences will be awarded.

The program should be of interest to persons currently employed at the middle management level in savings and loans who wish to sharpen their industry knowledge, i.e., branch managers, auditors, data processing people, management track personnel, individuals who sell services, and individuals (although not currently employed in a savings and loans) who desire a career in savings and loans management.

The program qualifies for tuition reimbursement at many of the participating institutions. See your personnel officer or training director for additional information.

PROGRAM GOALS: To acquaint the participant with the functioning of the American captial markets and the institutions which service these markets.

To survey savings and loan management techniques and methods of operation. Emphasis is placed on the goals of the savings and loan; and the methods of reaching these goals.

To develop within the participant the ability to systematize the loan evaluation process such that a sound rational credit-loan decision can be made. With the savings and loan program, emphasis will be placed upon the comprehension of the savings, investment, insurance and annuity goals of the individual (personal finance)

ADMISSION TO THE PROGRAM: A working knowledge of financial accounting is a prerequisite for admission to the certificate program. Specifically, the prerequisite can be met through either appropriate work experience, successfully passing test-out examinations, or successful completion of Accounting 3300 (Accounting for Decisions), Economics 3432 (Applied Macroeconomics), and Finance 3403 (Financial Management) or their equivalent. Applications to the program are evaluated by an admissions committee composed of both finance faculty and local savings and loan personnel.

Graduate students can transfer two of the certificate courses for master's degree credit while undergraduate students can transfer all of the courses toward bachelor's degree credit, with prior advisor approval.

The required courses are:	
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FIN 5305	Financial Intermediaries and
	Markets
BAN 5651	Savings and Loans 1
BAN 5652	Savings and Loans 11
BAN 5653	Savings and Loans III

## Transportation Management Certificate

The Department of Marketing offers an undergraduate Certificate Program in Transportation Management. The program is a vehicle to enable students employed in, or wishing to enter, the transportation industry to obtain recognition for their attainments in transportation education.

The courses leading to the Certificate may be taken by both degree-seeking students as part of their regular programs, or by special, non-degree seeking students who wish to attain professional recognition and qualifications.

The Certificate program requires participants to obtain 30 quarter hours, or six five-credit hour classes (of which 20 hours are required, 10 hours elective) in 4000-level transportation courses. Students must earn a "C" grade or better in each course taken.

The required courses are:

TRA 4240	Transportation Systems and	
	Services	
TRA 4410	Air Transportation	
TRA 4411	Airport Management	
TRA 4412	Air Carrier Management	
The electives should be selected from:		
TRA 4510	Mass Transportation and	
	Urban Problems	
TRA 4320	Transportation Regulation	

TRA 4320	Transportation Regulation
TRA 4101	Transportation Rate Making
TRA 4012	Transportation Logistics
TRA 4380	Transportation Policy

# **Course Descriptions**

BUSINESS ADMINISTRATION CORE COURSES

### **Definition of Prefixes**

ACC-Accounting; CIS-Computer and Information Systems: FIN-Finance: MAN-Man-QMB-MAR-Marketing; agement; Quantitative Methods in Business: STA-Statistics.

### ACC 3300 Accounting for Decisions

(5)(F,S,W,SS)

Accounting concepts and techniques essential to administration of a business enterprise and the determination of income and financial posisions; and various aspects of employment legislation, as well as other select topics.

### ACC 3303 Accounting for Planning and Control (5)(F.W.S.SS)

Use of accounting concepts, techniques and financial data as an aid to management planning, coordination and control. Topics covered include cost behavior and control; budgeting; analysis concepts; performance measurement and analysis; and capital budgeting. Prerequisite: ACC 3300, or equivalent.

### CIS 3000 Introduction to Information

(5)

Systems Survey of the major problems of information systems and information processing in organizations. Brief study of basic computer concepts; the information systems development cycle; the relation between information systems and decision-making; and the general systems framework for information problems. Prerequisites: Completion of the Computer Programming Proficiency Requirement.

### ECO 3003 Economics, Man and

(5)(F,S,W,SS) Society Relationship of economics to individual and group action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups. Public issue interpretation in the light of economic theory.

### ECO 3432/3202 Applied Macroeconomics (5)(F,W,S,SS)

Aggregate economic performance and business conditions analysis. Analysis of the nature and causes of business fluctuation. Economic expansions and stagflation; public policies for economic stability; fiscal policy, monetary policy and incomes policy. Sectoral analysis and macroeconomic forecasting. Prerequisite: ECO 3003, or equivalent.

#### FIN 3403 Financial Management (5)

A study of financial decision making in the corporate form of enterprise. An analysis of the sources and uses of funds. Emphasis is placed on working capital management: capital budgeting techniques; short and long term financing; and capital structure and the value of the firm. Prerequisite: ACC 3300, or equivalent.

MAN 3010 Organization and Management (5) An analysis of organizations and the management processes of planning, organizing,

# Course Descriptions Business Administration Core V Accounting

directing, and controlling in the context of socio-technical systems. Individual, group, intergroup, and organizational responses to various environments and technologies are studied, as are pertinent techniques of manpower management.

MAN 3503 Managerial Decision Making (5) This course concentrates on practical decision problems for the manager in an organization. Emphasis is placed on the environment and on the definition of and practical approaches to solving managerial problems. Topics to be included are decision-making theory, linear programming, network analysis, inventory models and simulation. Prerequisites: College Algebra, Introductory Statistics, and QMB 3150.

MAN 3602 International Business (5) Introductory analysis of the business system and management decision-making in the international operation of enterprise. Special emphasis given to international trade and investment; foreign exchange; financial markets; political and cultural interactions between host societies and multinational enterprise. Prerequisite: ECO 3432.

MAN 3712 Business and Society (5) An examination of the interaction between business and the social, political, and legal order. Analysis of the appropriate and actual relationships and responsibilities of business to its various publics. The nature of property and profits; the balancing of claims of owners, employees, customers and citizens; elements of constitutional law; competition and monopoly; antitrust policies and practices. Stress on the broad effects of the total environment upon the administration of the private sector of organization. Prerequisite: ECO 3432 or equivalent.

MAN 4722 Policy Analysis

The use of cases, guest lecturers, and gaming, to integrate analysis and measurement tools, 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. Prerequisite: Completion of all core requirements. Must be taken in

(5)

### last academic quarter of senior year. MAR 3023 Marketing Management

(5)(F,W,S,SS) A descriptive study emphasizing the functions and institutions common to marketing systems.

MAN 4630 International Business Policy (5) Project and case analysis of international business decision-making. Cross-functional approach emphasizes interactions among decisions, including those relating international and domestic activities. Focus is on integrating and evaluating decisions in a multinational enterprise environment. Should be taken in last quarter of senior year; open only to international business majors, in lieu of MAN 4722.

### QMB 3150 Application of Quantitative Methods in Business

Methods in Business (5) Application of quantitative techniques to business problems. General topics include the process of quantitative decision making, sampling, and forecasting. The latter part of the course will concentrate on specific techniques applicable to the student's functional major. Prerequisites: College Algebra, Introductory Statistics.

### STA 3132 Quantitative Methods for

Administration (5)(F,S,W,SS) The use of statistical tools in management; introduction of probability, descriptive statistics, and statistical inference as included.

### ACCOUNTING

Definition of Prefixes ACC-Accounting; BUL-Business Law.

ACC 3300 Accounting for Decisions (5) Accounting concepts and techniques essential to administration of a business enterprise and the determination of income and financial position; asset and equity accounting in proprietorships and corporations.

### ACC 3882 Introduction to the Accounting Process

Analysis of the accounting cycle and the technical procedures used in classifying, summarizing, and interpreting the transactions of a business entity.

(2)

(5)

### ACC 3949 Cooperative Education-

Accounting 1 (1-5) A special program permitting accounting students to work during alternating quarters, up to a maximum of 2 quarters, in a public accounting firm, an industrial or a not-for-profit enterprise, or a governmental agency, in a job related to the area of concentration in their university program.

ACC 4102 Financial Accounting 1 (5) An exploration of concepts, standards, and principles underlying financial reporting, with emphasis on the measurement, analysis, and interpretation of income and changes in financial position (funds flow). Prerequisite: At least 9 quarter hours of introductory financial and managerial accounting, with grades of "C" or better; or ACC 3300 with a grade of "B" or better.

### ACC 4122 Financial Accounting II

A continuation of ACC 4102, with emphasis on the accounting concepts, standards, and principles underlying the measurement and reporting of financial position. Prerequisite: ACC 4102, with grade of "C" or better.

ACC 4201 Financial Accounting III (5) A continuation of ACC 4122, with emphasis on accounting for partnerships, consolidated financial statements, and financial statement analysis. Prerequisite: ACC 4122, with grade of "C" or better.

### ACC 4248 Topics in Financial

Accounting (1–5) An in-depth study of recent developments in financial accounting, Prerequisite: ACC 4122.

ACC 4271 International Accounting (5) 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 measurement; and the role of accounting in national economic development.

ACC 4301 Managerial Accounting (5) Determination and control of production costs; job order and process systems; actual and standard costs, budgetary control; cost and profit analyses; and other methods of performance measurement and analysis. Prerequisite: ACC 4102 and MAN 3503 with grades "C" or better.

### ACC 4348 Topics in Managerial

Accounting (1-5) An in-depth study of recent developments in managerial accounting. Prerequisite: ACC 4301, or equivalent.

ACC 4501 Income Tax Accounting (5) A survey of federal income taxation with primary emphasis on the taxation of individuals and corporations. Prerequisite: ACC 4122 with grade of "C" or better.

### ACC 4522 Taxation of Corporations and

Partnerships (5) An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: ACC 4501, or 5511, or equivalent.

ACC 4548 Topics in Taxation (5) An in-depth study of recent legislative, administrative, and judicial developments in taxation. Prerequisite: ACC 4501, or equivalent.

### ACC 4601 Auditing

Standards and procedures applied by independent public accountants, ethics and responsibilities of auditors, development of audit programs, accumulation of audit evidence, and reporting. Prerequisite: ACC 4122 with grade of "C" or better.

# BUS 16

# **School of Business**

# Accounting

### ACC 4648 Topics in Auditing

An in-depth study of recent developments in auditing. Prerequisite: ACC 4601, or equivalent.

### ACC 4731 Accounting Systems and Managerial Analysis

A continuation of ACC 4301, with emphasis on management performance measurement and analysis; design of accounting systems; internal control; management systems audits; and use of data processing equipment. Prerequisite: ACC 4301 and COP 3172 with grades "C" or better, and knowledge of a computer language.

### ACC 4803 Professional Responsibility of the Accountant (5

Rights and duties of the Certified Public Accountant in respect of professional liability, securities regulation and tax practice. Prerequisite: ACC 4122 with "C" or better.

### ACC 4905 Independent Study in

Accounting (1-10) Individual conferences, supervised readings, and reports on personal investigations. Written permission of the Instructor, Department Chairperson, and Dean required.

### ACC 4930 Special Topics in Accounting

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. Written permission of the Instructor, Department Chairperson, and Dean required.

### ACC 4949 Cooperative Education-Accounting II (1–5)

A continuation of ACC 3949.

### ACC 5111 Standards and Principles of

Financial Accounting (5)(F,S) A survey of official pronouncements on accounting standards and principles. Prerequisite: ACC 4122 or 5311, or equivalent.

ACC 5131 Advanced Financial Accounting (5) Accounting for partnerships, consolidated financial statements, diversified and multinational corporations, fiduciary relationships, and not-for-profit institutions. Prerequisite: ACC 4122 or ACC 5311, or equivalent, or consent of Instructor. (No credit given if ACC 4201 or equivalent completed previously.)

ACC 5211 Accounting Problems (5)(W) Intensive study of selected advanced accounting topics, including problems of multiple ownership; fund accounting; actuarial applications; questions and problems from recent CPA examinations. Prerequisite: ACC 5131, or equivalent, or consent of Instructor.

### ACC 5311 Financial Accounting

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An exploration of concepts, standards, and principles underlying financial reporting, with emphasis on the measurement, analysis, and interpretation of assets, equities, income, and changes in financial position. Prerequisite: ACC 3303 or equivalent, and consent of Instructor; or ACC 6313.

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ACC 5511 Accounting for Income Taxes (5) Exploration of concepts of federal income taxes and tax planning, with emphasis on the determination of taxable income for the individual, the partnership, and the corporation. Prerequisite: ACC 5311 or equivalent, or consent of Instructor. (No credit given if ACC 4501 or equivalent completed previously.)

### ACC 5611 Auditing

The standards and procedures applied by independent public accountants, and their ethical considerations and responsibilities in the rendering of opinions on enterprise financial statements; internal auditing and control; and accounting systems. Prerequisite: ACC 5311, or equivalent, or consent of Instructor. (No credit given if ACC 4601, 4731, or equivalent completed previously).

### ACC 5734 Accounting Information Systems Analysis (5)

Coverage of accounting usage of computers. Emphasis on auditing and control of EDP systems. Use of flowcharting; decision tables; computer software; and case studies. Coverage of EDP topics in the CPA examination. Prerequisite: ACC 3300 or CIS 3000 or equivalent; or ACC 6011 and MAN 6830 or equivalent.

# ACC 5865 Governmental and Institutional Accounting

Accounting (5) Budgeting, accounting, and reporting standards and practices for government and other not-forprofit entities. Prerequisite: ACC 4122 or ACC 5311, or equivalent.

### ACC 6275 International Accounting (5)

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: ACC 5131, or equivalent, or consent of Instructor.

### ACC 6291 Seminar in Financial Accounting Theory I (5)(W)

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: ACC 5131, or equivalent, or consent of Instructor.

### ACC 6391 Seminar in Managerial Accounting I

Analysis of transfer pricing; product pricing; incremental profit analysis; decision models; alternative performance measurement techniques; and other advanced topics. Prerequisite: ACC 4301 or ACC 6313, or equivalent.

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ACC 6411 Managerial Accounting (5) In-depth study of the determination and control of production cost; budgetary control; cost volume and profit analyses; and considerations of alternative methods of performance measurement and analysis. Prerequisite: ACC 4301, or ACC 6313, or equivalent.

### ACC 6512 Income Tax Planning and Research

An in-depth study of the taxation and planning aspects of a variety of business and other transactions. Emphasis will be upon developing an ability to perceive tax issues and to conduct research to resolve them. Prerequisite: ACC 4501 or ACC 5511, or equivalent.

ACC 6513 Tax Accounting for Managers (5) An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager.

### ACC 6531 Taxation of Corporations 1 (5)

The study of the federal tax consequences of the formation, operation, reorganization and liquidation of corporations; election of Subchapter S status; the federal tax considerations in choosing the corporation as a vehicle for commercial activity. Prerequisite: ACC 6512, or permission of the Instructor and the advisor for the taxation specialization.

ACC 6553 Estate and Gift Taxation (5) The study of the federal estate tax and federal gift tax provisions. Prerequisite: ACC 6512. or permission of the Instructor and the advisor for the taxation specialization.

### ACC 6554 Tax Accounting Theory and Procedures

(5)

A study of the tax accounting concepts and the judicial doctrines inherent in the federal tax law and in tax planning. Prerequisite: ACC 4501 or ACC 5511, or equivalent.

ACC 6555 Taxation of Corporations II (5) An in-depth study of the tax benefits inherent in multiple corporate groups. Determining income as a single taxable entity is emphasized. The limitations on the group as a whole, especially liberalized carryover provisions, are also explored. Prerequisites: ACC 6512 and ACC 6531.

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# Accounting

### ACC 6556 Partnership Taxation

The intensive study of the formation, operation, and dissolution of a partnership (general and limited), and the use of the partnership to establish and operate tax sheltered investments in real estate, oil and gas, leasing, farming, cattle, etc. Prerequisite: ACC 6531 or permission from the Instructor.

### ACC 6557 Fiduciary Accounting and Taxation

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: ACC 6512 and ACC 6553.

### ACC 6558 Current Developments in Taxation

The study of recent legislative, administrative and judicial developments affecting taxation is effected through the application of research techniques to income tax and estate tax planning. Prerequisites: ACC 6512 and ACC 6554.

ACC 6559 Seminar in Taxation (5)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 deferred compensation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: ACC 6512 and ACC 6554.

ACC 6582 International Taxation (5) The complex federal income tax provisions applicable to the foreign income of U.S. citizens, residents, and corporations, and to foreign persons with U.S. income is surveyed. The tax policy of developing and developed countries with respect to foreign investment is discussed in the

context of international tax planning. Prerequisite: ACC 6512 or permission of the Instructor and the advisor for the taxation specialization.

### ACC 6612 Auditing for Managers

An exploration on the concepts and objectives of internal control, auditing, and audit reports from the point of view of the manager.

ACC 6651 Studies in Auditing (5)(S)Professional and technical aspects of auditing practice; ethics and legal responsibilities; review of field work emphasizing materiality, sampling, and working papers, reporting problems including long-form and special purpose reports; study of recent auditing developments. Prerequisite: ACC 4601 or ACC 5611, or equivalent.

### ACC 6735 Seminar in Accounting Information Systems I (5)

Application of general systems concepts to accounting; operational, and related planning and control information requirements. Data base management systems, on-line real-time systems, time-sharing, etc., and applications in accounting. Emphasis on the analysis of computer-based controls. Case histories and projects. Prerequisite: ACC 5734, or equivalent.

### ACC 6745 Seminar in Accounting Information Systems II (5)

A continuation of ACC 6735, with emphasis on the theories underlying complex information systems. Prerequisite: ACC 6735, equivalent.

ACC 6822 Behavioral Accounting (5) 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. Prerequisite: ACC 4121 or ACC 5311 and 4301 or equivalents.

### ACC 6832 Accounting and Quantitative Methods

(5) Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: MAN 3503, QMB 3150 and CIS 3000, or equivalents.

### ACC 6845 Seminar Managerial Accounting II

(5)An intensive study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance. Prerequisite: ACC 6391, or equivalent.

### ACC 6907 Independent Study in Accounting

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty advisor and Department Chairperson required.

ACC 6910 Master's Project (5)(F,W,S,SS)An individualized research project and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

### ACC 6932 Seminar in Financial Accounting Theory II

A continuation of ACC 6291, with emphasis on the problems of accounting for price-level changes and other current issues. Prerequisite: ACC 6291, or equivalent.

ACC 6935 Special Topics in Accounting (1-5) Intensive study for groups of students of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty advisor and Department Chairperson required.

BUL 4100 Legal Environment of Business (5) Legal environment of business; analysis of legal principles affecting management; the role of law in business decisions; the legal tool as a system for order in the business arena; the effectiveness of the legal tool as a planning instrument. This course is a study of the importance of the impact of the law and legal institutions on the field of commerce, with attention to the regulation of competition through analysis of antitrust legislation; the workings of administrative law; the formulation of judicial decisions; the power of constitutional provi-

### BUL 4111 Business Law I

Principles of law affecting the legal environment of business; contract law; laws related to sales, torts, agencies and employment; legal relations of government and business.

### **BUL 4112 Business Law II**

(5)Bailments, shipment and sale of goods; suretyship; bankruptcy; commercial paper; real and personal property; insurance; relevant provisions of the uniform commercial code.

### **BUL 4650 Special Topics in Business** Law

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Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**BUL 4661 Law for Accountants** 

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A survey of select topics in the legal environment in which business operates, with emphasis on the laws dealing with contracts; sales; agencies; partnerships; corporations; and other topics of direct interest to students majoring in accounting. (The course is, however, open to non-accounting students.)

### BUL 4905 Independent Study in

**Business Law** (1 - 10)Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

BUL 6124 Survey of Business Law (5)Graduate level survey of business law, which examines the social purposes, functions and forms of the law and the courts, particularly as they relate to business organizations.

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## BUS 18

# **School of Business**

# Finance

# BUL 6651 Special Topics in Business Law (1-10)

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

### BUL 6906 Independent Study in

Business Law (1-10)

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### FINANCE

Definition of Prenxes FIN-Finance, BAN-Banking,

### BAN 5651 Savings and Loans I

Theory of Corporate financial analysis, analysis of personal financial position, savings and loan cash flows, measures branch profitability, commercial banking and savings and loans, special problems of savings and loan management. Prerequisite: None.

### BAN 5652 Savings and Loans II

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Financial management of savings and loan associations and other mortgage lenders, supply and demand of mortgage funds; state and federal regulatory bodies' legal and institutional characteristics related to mortgage markets. Prerequisite: BAN 5651 or approval of Chairperson.

### BAN 5653 Savings and Loan III

Cases in savings and loan association assets and liabilities management. Includes emphasis on role of savings and loans in personal finance, uses of insurance, annuities, pensions, Keogh and IRA Plans. Prerequisite: BAN 5652.

### FIN 3100 Personal Finance and Resource Management (5)

The application of organization, finance, and management concepts and methods, to aid the individual in making personal financial and career decisions. This course CANNOT be used to meet the finance major concentration requirements.

FIN 3949 Cooperative Education in Finance(5) Quarters of full-time classroom study are alternated with quarters of full-time remunerated employment which closely relates to the student's area of academic study. Carefully designed and monitored work assignments are intended to develop the student's understanding of the relationship between theory and practice in an authentic work environment. Prerequisite: None.

### FIN 4303 Financial Markets and Institutions

Financial markets and the role of financial intermediaries in these markets. Emphasis will be upon the objectives and policies of financial intermediaries within the constraints of law and regulatory authorities. Prerequisite: FIN 3403, or equivalent.

# FIN 4313 Financial History of the United States

Origins of the American financial system. Early American history of financial intermediaries. Evolution in financial legislation, policy, practice, and role of financial intermediaries. Role of the Federal Reserve System in financial markets and influence on financial policy. Prerequisite: FIN 3403, or equivalent.

FIN 4324 Commercial Bank Management (5) The management of bank assets and liabilities; specialized banking functions; and the role of the commercial bank in financing business. Prerequisite: FIN 3403, or equivalent.

### FIN 4404 Policies for Financial Management

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The process of securing and allocating funds within the organization, with emphasis on the relevant financial decision-making and policy aspects. Prerequisite: FIN 3403. or equivalent.

### FIN 4419 Capital Budgeting Techniques and Applications (5)

The application of contemporary theory and techniques to the problem of long term resource allocation. A review of capital budgeting techniques and the implications the investment and management of capital have toward the goal of maximizing the value of the firm. Prerequisite: FIN 4404, or equivalent.

### FIN 4502 Securities Analysis

The examination of the determinants of the values of common and preferred stocks, bonds, and warrants. The timing of security purchases and sales and an introduction to portfolio construction techniques. Prerequisite: FIN 3403, or equivalent.

### FIN 4504 Portfolio Analysis and

Management (5) Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: F1N 4502, or equivalent.

### FIN 4611 International Financial Management

Capital budgeting operational analysis, and financial decisions in the multinational context. Working capital management and intrafirm fund transfers. Measurement and evaluation of risk of internationally diversified assets. Prerequisite: FIN 3403, or equivalent.

### FIN 4713 Financial Policies for Not-For-Profit Organizations

Profit Organizations (5) Financial processes relevant to governmental and other not-for-profit organizations. Emphasis is on legal, political, and market constraints on securing, managing, and expending funds. Prerequisite: FIN 3403, or equivalent.

### FIN 4904 Independent Study in

Finance (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 4934 Special Topics in Finance (1-5) For groups of students who desire an 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 4949 Cooperative Education in Finance(5) Quarters of full-time classroom study are alternated with quarters of full-time remunerated employment which closely relates to the student's area of academic study. Carefully designed and monitored work assignments are intended to develop the student's understanding of the relationship between theory and practice in an authentic work environment. Prerequisite: None.

### FIN 5305 Financial Intermediaries and Markets

The role of financial institutions: the sources and uses of funds of financial intermediaries: the objectives and constraints of these intermediaries; and the supply and demand for loanable funds in different financial markets. Prerequisite: Limited to people admitted to Certificate in Banking program *only*.

FIN 5314 Working Capital Management (5) Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: F1N 3403 or F1N 6428, or equivalent.

FIN 5326 Commercial Bank Management (5) The management of bank assets and liabilities; specialized banking functions; and the role of the commercial bank in financing business. Prerequisite: Limited to people admitted to Certificate in Banking program *only*.

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# Finance

### FIN 5345 Credit Analysis and Loan Evaluation

Topics to include: introduction to commercial lending; secured lending; accounts receivable financing and factoring; inventory financing; introduction to lending vehicles; short term lending; domestic taxation; consolidations; forecasting and intermediate term cash flow lending; term loan agreements/covenants; subordinations and guarantees; foreign exchange; international transactions and leasing. Prerequisite: Limited to people admitted to Certificate in Banking program *only*.

### FIN 5406, Policies for Financial Management

The process of securing and allocating funds within the business organization, with emphasis on the relevant financial decision-making and policy aspects. Prerequisite: Limited to people admitted to Certificate in Banking program only.

FIN 5444 Leasing and Mergers (5) Discussion oriented course and 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 3403, or FIN 6428, or equivalent.

FIN 5473 Small Business Finance (5) The financial markets, financial instruments, and managerial policies and techniques available to potential and existing entrepreneurs and owner/managers. Emphasis will be upon analysis of areas of opportunity for small business; analysis of financing alternatives; and analysis of profitability. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

FIN 5515 Futures Trading

An examination of the risk reward structure of stock options, commodity futures and currency futures. An examination of the structure of the markets for these securities and strategies for their use in portfolio construction. Prerequisite: FIN 4502, or FIN 6516, or equivalent.

### FIN 6246 Financial Markets and Institutions

Analysis of the characteristics and efficiency of the money markets and capital markets. Types of money market and capital market instruments, and role of financial institutions in these markets. Prerequisite: None.

### FIN 6315 Management of Deposit Institutions

Institutions (5) The objectives, constraints, and policies applicable to the management of financial institutions having primary deposit functions; commercial banks, savings and loan associations, savings banks, and credit unions. Emphasis will be upon commercial banks which constitute the core institution of the financial world. Prerequisite: F1N 6246, or equivalent.

### FIN 6316 Management of Nondeposit Institutions

The objectives, constraints, and policies applicable to the management of the nondeposit financial institutions; life insurance companies, property and casualty insurance companies, pension funds, investment companies, real estate investment trusts, and finance companies. Prerequisite: FIN 6246, or equivalent.

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### FIN 6325 Current Issues in Commercial Banking

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 financial sector. Prerequisite: FIN 6315, or equivalent.

FIN 6426 Financial Management Policies (5) The selection and management of current and permanent assets to achieve corporate objectives. The selection and management of alternative sources of funds to obtain the optimal capital structure. Prerequisite: FIN 6428, or equivalent.

### FIN 6436 Capital Budgeting and Long Term Resource Allocation (5)

The theory of capital allocation at the level of the firm, and empirical findings. Decision models and their application. The pattern of capital expenditure of industries and of the economy as a whole. Investment determinants. Prerequisite: FIN 6428, or equivalent.

### FIN 6456 Quantitative Methods in Financial Analysis (5)

The applications of computer techniques to financial management of manufacturing firms and financial institutions. Prerequisite: FIN 6428, or equivalent.

FIN 6516 Securities Analysis (5) An analysis of contemporary securities markets and their operations. The determinants of the risk reward structure of equity and debt securities. Prerequisite: None.

FIN 6525 Portfolio Management (5) Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: F1N 6516, or equivalent. FIN 6625 International Bank Management (5) Growth of U.S. international banking and description of international banking services. Examination of lending practices, types of risk and formulation of international banking polcy. Prerequisite: None.

### FIN 6636 International Finance (5)

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

### FIN 6716 Financial Management of

Governmental Organizations (5) The budgetary process of identifying, justifying, and allocating funds. The securing of funds in the market and the efficient allocation of funds. Prerequisite: None.

### FIN 6806 The Theory of Finance (5)

The study of the development of the theory of finance and its implications for the financial decisions made by the managers 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

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Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 6915 Master's Project in Finance (1-10) An individualized research project and report, which may include field experience with a firm or agency; library research; computer programming; or project development. Permission of the faculty advisor is required before registering for the course. 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 (1-5) 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.

# School of Business

# Insurance

INSURANCE Definition of Prefix RMI–Risk Management & Insurance

### RMI 4015 Principles of Insurance

Types of risk: methods of handling risk: analysis of insurance as a principal method; organization and operation of insurance companies; bases for decision-making in management of personal and business risks.

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### RMI 4016 Management of Insurance Enterprise

Analysis of the operations of insurance organizations, underwriting; rate making; regulation; legal organization; management and control financial analysis; marketing systems. Prerequisites: RMI 4015 and consent of Instructor.

RMI 4115 Life Insurance (5) Functions and uses of life insurance; types of policy contracts: calculation of premiums and reserves; investments; legal principles; organization, management, and supervision of companies.

RMI 4117 Personal Insurance Planning (5) Planning a personal program of insurance; integrating life, health and accident, property, pensions, and governmental programs.

### RMI 4135 Employee Fringe Benefit Programs

Coverage of executive compensation: contractual agreements: benefit formulas; financing of death, disability, and retirement benefits; group life and health insurance; pension and profit sharing plans; taxation and legal aspects underlying pensions: deferred and non-deferred considerations.

### RMI 4145 Business and Estate Insurance Planning (5)

Applications of life and health insurance to business and estate planning situations, emphasis on current practices and developments in retirement planning, business continuation, and estate conversions.

RMI 4212 Property Insurance I (5) Basic principles of fire and allied lines insurance, including standard fire insurance contracts, declarations, agreements, conditions and exclusions; fire insurance forms, clauses, and endorsements; special and allied fire lines; marine and other insurance.

RMI 4213 Property Insurance II (5) Multiple-line risk and risk management; the multiple-line insurance industry; property and liability hazards and policy contracts; functional aspects of underwriting, rate making, and claims handling.

### RMI 4220 Casualty Insurance I

A broad concept of casualty insurance, including a thorough review of basic policies; dailies; underwriting; losses; multiple line and comprehensive forms. Subjects covered include property and personal liability insurance: boiler and machinery insurance; air insurance: inland and ocean marine insurance; workmen's compensation; and surety.

RMI 4221 Casualty Insurance II (5) A continuation of RMI 4220, but including agency management and company administration.

RMI 4305 Risk Management (5) Concepts and philosophies of risk management. Application of alternatives to handling risks, including risk retention; loss prevention; corporate insurance programs; self-insurance; insurance surveys and case studies.

### RMI 4405 Insurance Law (5) Legal environment and essentials of the law particularly applicable to the business of insurance. Emphasis on statutory regulation in Flor-

ida. **RMI 4500 Social Insurance** (5) Introductory analysis of the rationale for social insurance; structure of current social insurance

insurance; structure of current social insurance programs; evaluation of programs; old-age, survivors, health, disability, and unemployment insurance.

RMI 4740 Insurance Underwriting and Rating Examination of an underwriter's and rater's functions: selection of risks. classification and rating, retention and reinsurance deductions and exclusions, etc. Prerequisite: INS 405, or consent of Instructor.

### RMI 4910 Independent Study in Insurance

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

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RMI 4935 Special Topics in Insurance (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

RMI 6055 Graduate Survey of Insurance (5) Graduate examination of current problems in insurance, including theory; uses of insurance in business organizations; property and liability insurance; health insurance; and life insurance.

### RMI 6912 Independent Study in Insurance

Insurance (1-10) Individual conferences, supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

RMI 6936 Special Topics in Insurance (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

### MANAGEMENT

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Definition of Prefixes MAN-Management; QMB-Quantitative Methods in Business.

### MAN 3949 Cooperative Education-Management I

A special program enabling management majors to work in jobs significantly related to their major area and career goals. Specific placement must be approved by the Department Chairperson and faculty advisor prior to enrollment. Prerequisite: qualification for Cooperative Education Program.

### MAN 4064 Dilemmas of Responsibility in

Business Management (5) The use of interdisciplinary concepts and tools to define and understand the moral and ethical dilemmas involved in business and corporate spheres of activity. Specifically attended to are issues such as pollution, consumer affairs, and quality of public facilities.

### MAN 4120 Intergroup Relations in Organization

A study of the psychological and sociological dimensions of intergroup relations. Attention to the problems experienced by subgroups in large and small organizations, with particular reference to ethnic, racial, and subcultural groups. The roles and responsibilities of management in the constructive resolution and utilization of inter-group conflict in organizations.

### MAN 4151 Behavioral Science in Management

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An analysis of selected concepts in behavioral science, their interaction and application to management. Topics include perception, motivation, and group behavior.

### MAN 4201 Organization Theory (5)

A comparative analysis of various theories of organization, (including the classical, biological, economic, and Cyert-March models) and of their treatment of fundamental structure; conflict, communications; group and individual behavior; and decision-making. Primary emphasis on developing an integrated philosophy of organization and management. Prerequisite: MAN 3010, or equivalent.

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# Management

### MAN 4301 Personnel Management

Attention is focused on the theory and practice of modern personnel management as related to other management functions. Topics include: selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resource management and development at various organizational levels.

### MAN 4320 Personnel Recruitment and Selection

In depth study of the personnel staffing function. Includes an analysis of objectives, techniques, and procedures for forecasting manpower needs, recruiting candidates, and selecting employees.

MAN 4322 Personnel Information Systems (5) A survey of personnel reporting requirements; assessment of information needs; manpower planning; and development of integrated per-

sonnel systems. Prerequisites: CIS 3000 and

### MAN 4330 Wage and Salary

MAN 4301.

### Administration

(5) Presents the theories and techniques used by management in the areas of work measurement,

### wage incentives and job evaluation. **MAN 4401 Industrial Relations**

(5) Organizational and economic analysis of the problems and issues arising out of legislative and judicial efforts to define the rights, duties and responsibilities of labor organizations and management in the field of labor relations.

### MAN 4410 Labor, Management, and **Collective Bargaining**

(5) The various options for settlement of labormanagement disputes. Evaluation of the nature, institutions and processes of collective bargaining; the analysis of labor-management issues and their significance; and the character and procedures of arbitration, mediation, fact-finding, and conciliation. The course deals also with the analysis of the labor market.

### MAN 4521 Operations Planning and Control

Concepts in design, analysis, and control of operating systems, plant layout and design, materials handling, quality control, forecasting, and decision theory applied to production and service systems. Prerequisites: MAN 3503, QMB 3150

### **MAN 4523 Production Information** Systems

A study of the special problems associated with the development of information systems capable of supporting the production function of an organization. Review of information systems approaches to inventory control and work processing management.

### **MAN 4600 International Management**

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Introductory survey of management issues that confront the multinational enterprise. At least one class session is devoted to each of the following topics; review of basic trade theory; tariffs and trade barriers; organizational transfer, foreign exchange; institutions affecting the multinational manager (such as IMF, IDB, Ex-in Bank, EEC, IBRD), international financial management issues in multinational accounting; personnel management, comparative business customs and behavioral issues; exportimport procedures; conflicts with national interests.

### MAN 4610 International and Comparative

Industrial Relations (5)Examines selected industrial relations systems of Western Europe, Asia and the Americas, with special emphasis on differences among systems and the reasons such differences exist. The industrial relations significance of the multinational enterprise, and management problems associated with operations in diverse systems, are analyzed.

### MAN 4711 Social Responsibility and Social Accounting (5)

The sources of the conception of corporate social responsibility. An examination of the classical doctrines as well as new approaches to the conception of the corporation as a citizen. A portion of the course will be devoted to a discussion of social accountability and social accounting as a specific problem in corporate input. Prerequisite: MAN 3712, consent of Instructor.

### MAN 4731 Modern Business History (5) An examination of the history of the corporation in the United States since the Civil War, up to, and including, the development of the multinational corporation. An examination of the social and economic forces operative in the development of the corporate form. A full exploration of the current power of the corporate form-and legal, and other, efforts to limit this power. Prerequisite: MAN 3712, or consent of the Instructor.

MAN 4734 Social Science of Business (5)Sociological, anthropological, and psychological studies of corporate management and the effect of corporate behavior. Emphasis will be on existing data and on the development of research-oriented proposals intended to develop new insights into the application of social science techniques to the problems of business as an institution and as part of society. Prerequisite: MAN 3712, or consent of Instructor.

### MAN 4741 Business Environment and Policy Formation (5)

A course studying the conceptual and environ-

mental forces which establish the framework of business strategy and tactical decision. A critical analysis of conceptual processes which can limit the executive's capacity to respond to change in the total and in the business environment. Prerequisite: MAN 3712, or consent of Instructor.

MAN 4742 Business and the Environment (5) A course on the effect of industrialization and technological change on the physical environment. An examination of the current legal, economic and political consequences of pollution and environmental damage, and the abatement of these factors. Prerequisite: MAN 3712, or consent of Instructor.

### MAN 4781 Women in Management of **Business Organizations**

(5)This course is intended for students interested in the present and future status of female managers. It will focus on the history of women in professions; the socio-economic status of women in business; educational factors, sex roles and the informal organization; relevant legal requirements; the development of managerial climates for effective performance; and strategies for changing organizations.

MAN 4802 Small Business Management (5) The organization and operation of the small business: accounting, finance, production and marketing subsystems. The use of analytical approach. Problems of manpower management and information flow. Possible use of EDP, case studies.

### MAN 4810 Management Science (5)

Survey of management science operations research from an applied point of view. Emphasis on the formulation of models of business problems such as allocations; inventories; project management; replacement; transportation; scheduling sequencing; queuing theory; and competition. Prerequisite: QMB 3150, or equivalent.

MAN 4820 Stystems Analysis and Design (5) Topics include: information systems concepts; the structure, design, and development of the data base; and techniques and procedures used in the analysis and design of systems projects. Prerequisite: CIS 3000.

### MAN 4821 Information Systems Development

(5)Advanced topics in the analysis and design of computer-based management information systems. Includes feasibility studies; systems analysis; design; implementation; operation; and the interfacing of a computer-based system within the organization. Cases and field studies will be used as a basis for course projects.

# School of Business

# Management

### MAN 4822 Systems Management

An in-depth, case-oriented study of the problems encountered in the management of systems projects. Analyst-user conflicts, communication problems within the systems department, computer evaluation and selection techniques, computer negotiations and contracts, and project management are covered in detail. Where appropriate, field study investigating a topical area will be carried out by each student.

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### MAN 4905 Independent Study in Management

Management (1-10) Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required. CR/NC only.

### MAN 4930 Special Topics in Management

For students who wish an 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. Grading option.

### MAN 4949 Cooperative Education-

Management II (1-5) Continuation of MAN 3949. Prerequisites: MAN 3949, and qualification for Cooperative Education Program.

### MAN 5123 Human Interaction I: Personal Growth Laboratory

Growth Laboratory (5) Experience designed to increase awareness of personal social impact, and sensitivity to the feelings of others; to improve interpersonal communication, and increase understanding of the change-learning process. Study and analysis of class-group participation as well as other functional social groups.

### MAN 5415 Public Sector Collective Bargaining

Examination of the labor force: labor markets; public manpower policy; and organizational manpower planning. Discussion of recent developments in public and organizational policy.

### MAN 5830 Planning for Information Systems

An in-depth study of systems concepts as they apply to information systems in organizations. Consideration of planning for an accomplishment of systems development through the phases of the life cycle and the overall management of the information systems function. Enrollment limited to students in the MIS Certificate Program.

### MAN 5831 Analysis of Information Requirements

An in-depth study of the problems of determining effective information needs for systems users. Consideration of the development of data element dictionary capability; procedures for eliciting requirement and report content. Enrollment limited to students in the MIS Certificate Program.

### MAN 5832 Design of Information Systems (5) An in-depth study of the problem of determining an efficient information system design to meet the requirements specified by the user. Consideration of the determination of alternative designs, selection of the "best" design, and conversion of the design into programming specifications. Enrollment limited to students in the MIS Certificate Program.

### MAN 5930 Seminar in Personnel Management

Management (5) Overview and examination of the various aspects of the personnel management function. Course is only open to students enrolled in the Personnel Management Certificate Program.

### MAN 6112 Group Processes in Organizations

Organizations (5) The social and psychological processes of organizational functioning. The roles played by small groups in organizational settings.

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### MAN 6121 Interpersonal Behavior and Analysis

A human interaction-human relations training laboratory, designed to increase both selfawareness and understanding of behavior dynamics in groups. Course is intended to enable students to broaden their conceptual understanding of human interpersonal communications and conflict.

### MAN 6124 Human Interaction II

Organizational Consultation (5)Theories and approaches to organization development and change, with a particular focus on public schools and organizations. Supervised laboratory on systematic consultation and action skills, including schools and organizations. Supervised laboratory on systematic consultation and action skills, including method of assessment (survey feedback, milling, confrontation meetings, systems analysis); agenda-setting; feedbacks; coaching; thirdparty consultation for conflict management: and team training. Prerequisite: MAN 5123.

### MAN 6213 Conflict in Organizations

A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models are approaches to utilizing and resolving conflict toward constructive personal and organization ends will be emphasized.

### MAN 6311 Advanced Personnel

Management

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

### MAN 6321 Personnel Selection and

Placement (5) Individual differences and their measurement in personnel selection and job placement. Job design and redesign. The learning process. Counseling and career guidance.

MAN 6331 Compensation Administration (5) An in depth analysis of wages and salary administration, including such topics as job evaluation; wage incentive systems; and work sampling.

### MAN 6351 Personnel Training and Development

Development (5) Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity management.

### MAN 6403 Government and Industrial

Relations (5) Survey of industrial relations law, with special emphasis on the current status of union-management relations law. Covers the scope and content of current legislation; selected topics in applied labor relations law; and the role of government.

### MAN 6405 Labor Relations

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.

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MAN 6411 Collective Bargaining Topics (5) An advanced course in labor relations, for students will 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 6529 Seminar in Production Control Systems (5)

The design of control systems for production operations automation, and its impact on organizations. Integrated operational-simulation approach. Group and individual projects.

MAN 6601 International Management (5) Graduate seminar focusing on management issues confronting the multinational enterprise. Includes basic trade theory; tariffs and trade barriers; organizational transfer, foreign exchange; international financial management; export-import procedures; comparative busi(5)

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# Marketing

ness customs; personnel management; and institutions affecting the multinational manager.

### MAN 6603 Problems in Comparative Management

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 6604 Comparative Management Analysis

(5)Development and testing of hypotheses concerning differences and similarities in managerial behavior in different countries and cultures; discussion of implications; case analyses.

MAN 6715 Politics in Organizations (5) The objective of this course is to give the student experience in an executive role in a contemporary organization. The stress is on human interaction; decision-making under pressure; and organizational politics.

MAN 6819 Survey of Management Science (5) An introductory course that will examine model building, and the methodology, techniques and tools of management science. A survey of available analytic models will be included.

MAN 6833 Information Systems Planning (5) 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.

### MAN 6834 Information Requirements Analysis

An in depth study of the problem of determining effective information needs for systems users. Consideration of the development of data element dictionary capability; procedures for eliciting requirements; and techniques for documenting requirements and report content.

MAN 6835 Information Systems Design (5) An in depth study of the problem of determining an efficient design to meet the requirements specified by the user. Consideration of the determination of alternative designs, selection of the "best" design, and conversion of the design into programming specifications.

### MAN 6836 Systems Analysis

A study of the systems approach to problem solving as it applies to any area of specialization. Consideration of the problems in determining system objectives; identifying system boundaries and constraints; marshalling resources for achieving system objectives; analyzing the subcomponents of the system and their respective objectives; and managing the system.

### MAN 6895 Seminar in Management

Science (5) New topics and new application areas will be explored. Lectures will relate to the latest advances in the theory and application of management science.

### MAN 6905 Independent Study in

Management (1 - 10)Individual conferences; supervised readings; reports on personal investigations. Consent of faculty sponsor and Department Chairman required, CR/NC only.

### MAN 6910 Research Methods in

Management (5)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 6930 Master's Seminar in

Management (1-5)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. MAN 6974 Master's Project in

Management

(1 - 10)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 School.

### QMB 4680 Simulation of Management Systems

(5) Exploration of basic concepts in computer simulation of systems. Application of these concepts to a variety of managerial problems. Discussion of waiting line models; continuous simulation models; heuristic methods; and management games. Presentation of several computer programs and languages for simulation. Exposure to the operation and analysis of some simulation models. Prerequisites: QMB 3150, CIS 3000.

### QMB 4700 Principles of Operations **Research I**

(5)Application of deterministic operations research models (such as linear and nonlinear programming, networks (CPM), dynamic programming, and branch and bound techniques) to managerial problems of allocation; planning and scheduling investment; control prescheduling. Prerequisite: MAN 4720.

### QMB 6805 Deterministic Models for Management Analysis

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 (5)Basic concepts of computer simulation of systems; application of these concepts to a variety of managerial problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis. Heuristic methods. Management games.

### QMB 6855 Stochastic Models for

Management Analysis (5) Applications of probabilistic models (such as queuing, inventory, and renewal) to their managerial problems.

### QMB 6875 Stochastic Models for Project

Management (5)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 exprograms, isting to analyze/simulate hypothetical project networks, and learn to interpret the results in order to facilitate operational decisions.

### MARKETING

**Definition of Prefixes** 

MAR-Marketing.

### MAR 4054 Marketing for Non-Profit Organizations

(5) Marketing techniques as applied to non-profit organizations, including (but not limited to) the marketing of such governmental programs as housing, educational, health services, transportation, and Social Security.

### MAR 4103 Personal Selling

The development of effective salesmen/customer relationships is emphasized. Selection, training, and motivation of the sales force, and the relationship between personal selling and the other elements of marketing strategy are analyzed.

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MAR 4153 Retailing Management (5)An examination of the role of retailing in the marketing system. Attention is concentrated on

fundamentals for successful retail management. The course emphasizes basic marketing principles and procedures, including merchandising; markup-markdown; pricing; stock-turn; and sales and stock planning.

# Marketing

MAR 4154 Cases in Retailing Management (5) This course treats the retail marketing concentration in terms of up-to-date merchandise management methods. Emphasis is on elements of profit, open-to-buy planning, return on investment, and inventory control. The course delineates the decisions made by retailing managements and reviews their available strategies. Prerequisite: MAR 4153, or consent of Instructor.

### MAR 4203 Marketing Channels

The course focuses upon institutions, functions, and flows within channels of distribution; and their integration into channels systems. Wholesaling and physical activity are emphasized. Same course as TRA 4203.

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MAR 4213 Transportation Logistics (5) (Same course as TRA 4012). Consideration of transportation logistics and its relationship to production and distribution. Study of the characteristics, management, legislation, and public regulation of various modes of transportation.

MAR 4243 International Marketing (5) The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment.

MAR 4244 Export Marketing (5) This course emphasizes practical approaches to export marketing, including marketing strategies by individual firms to serve foreign markets. Operational methods of identifying, establishing, and consolidating export markets are discussed, with particular attention to the needs of the smaller business.

MAR 4303 Advertising Management (5) The study of advertising in business and society, providing a broad understanding of advertising's social, communicative, and economic purposes. An examination of the types and functions of advertising. Discussion of research, media selection, budget determination, and other elements in the total advertising process.

MAR 4343 Promotional Strategy (5) The course deals with problems of decisionmaking in the areas of marketing communication methods, with primary emphasis on advertising.

### MAR 4344 Advertising Campaign Management

Strategic approaches to managing advertising campaigns, including selection of approaches; market research; consumer target markets; media; advertisements; development and control of budgets. Prerequisite: MAR 4303. or consent of Instructor.

### MAR 4503 Consumer Behavior

The course offers an introduction to the analysis of the consumer, as the basis for the development of the marketing mix.

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MAR 4613 Marketing Research (5) An examination of the marketing research process and its role in aiding decision-making. Emphasis is placed on evaluation and utilization of research information in making marketing decisions.

### MAR 4663 Packaging for Consumer and Industrial Markets

Industrial Markets (5) A general course in packaging dealing with techniques, motivational influences, technology, and functional development of the package in both consumer and industrial market places. Consideration will be given to the basic functions of the package and their relation to the needs and wants of society.

MAR 4703 Current Issues in Marketing 1 (5) 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 5 credit hours of independent study in marketing.

MAR 4704 Current Issues in Marketing II (5) Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 4703.

### MAR 4713 Cases in Marketing Management

Management (5) An analytic approach to the performance to marketing management. The elements of marketing mix as the focus of decision-making in marketing are studied, and the case method of instruction is employed.

### MAR 4723 Marketing of Small Business Enterprises

Designed to develop an understanding of the principles and practices which contribute to the successful marketing operation of a small business enterprise, this course deals with marketing policies, techniques, and applications, to aid the entrepreneur in this field.

### MAR 4733 Marketing and the Law (5)

A policy and operational analysis of legislative acts and judicial interpretations of laws influencing organizations engaged in marketing activities. MAR 4753 Marketing Game Competition (5) Focal point of the course is a computerized marketing management simulation. The course provides an opportunity for the student to participate, as a member of the marketing management team of a firm in competition with other firms.

MAR 4773 Real Estate Marketing (5) (Same course as REE 4800). The course focuses on applications of marketing concepts and tools within the real estate industry.

## MAR 4907 Independent Study in

Marketing (1-10) Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### MAR 4933 Special Topics in Marketing

Marketing (1-10) 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 4941 Marketing Internship (1-10) Full-time supervised work in a selected organization. Prerequisites: At least twenty hours in marketing; consent of Instructor and Department Chairperson.

### MAR 4949 Cooperative Education in Marketing

Open to marketing majors who have been admitted to the Cooperative Education Program. with consent of Chairperson. Full time supervised work with a participating organization in marketing. Report to the organization and a paper to the Chairperson are required.

### MAR 5913 Independent Study in Marketing

(1 - 10)

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Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### MAR 5935 Special Topics in Marketing

(1-10)

(5)

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 6246 Advanced International Marketing

This course discusses the nature and scope of international marketing, and explores multinational problems facing firms and other international marketing organizations, together with strategies for foreign market penetration.

# **Real Estate**

MAR 6346 Advanced Promotional Strategy (5) The course focuses on planning, problemsolving, and decision-making, as they apply to promotion programs. Primary emphasis is on advertising, with discussion of the role of promotion in relation to other elements of the marketing program.

MAR 6506 Advanced Consumer Behavior (5) Modern comprehensive models of consumer behavior are utilized as a framework for understanding consumer decision processes.

### MAR 6606 Quantitative Methods in Marketing (5)

A study of the quantitative reasoning process and its usefulness for marketing decision-making. Each of the major decision areas in marketing is examined, using existing quantitative models as aids to understanding marketing processes.

MAR 6617 Advanced Marketing Research (5) 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.

MAR 6706 Current Issues in Marketing 1 (5) 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 5 credit hours of independent study in marketing.

MAR 6707 Current Issues in Marketing II (5) Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 6706.

### MAR 6717 Advanced Marketing Management

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.

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### MAR 6915 Independent Study in Marketing

(1 - 10)Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### MAR 6936 Special Topics in Marketing

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 6971 Master's Project

An individualized research project and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

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### REAL ESTATE

**Definition of Prefix** REE-Real Estate.

**REE 4040 Introduction to Real Estate** (5) Decision making processes for development, financing, marketing, and management of real estate space. Economics of regional development and urbanization. Public policy issues concerning urban environment and the real estate business. Prerequisite to all other courses in real estate and regional development.

**REE 4121 Real Estate Management** (5)Theories and techniques of professional management of real estate including such topics as creating a management plan; merchandising space; economics of alternates; market analysis; the maintenance process; owner-tenantmanager relations; operating budgets; tax consideration; ethics. Prerequisite: REE 3040, or permission of Instructor.

**REE 4200 Real Estate Finance** (5)Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for construction financing and permanent financing of residential and income producing property. Prerequisite: REE 3040, or permission of Instructor.

**REE 4221 Valuation of Real Estate** (5)Valuation and appraisal framework applied to residential and income producing property; role of computers; valuation theory and process as a guide to business decisions. Prerequisite: REE 3040, or permission of Instructor.

**REE 4301 Real Estate Investment** (5) Fundamentals of acquisition, ownership, and disposition of investment property; taxation and tax shelter; cash flow projections; analysis of specific types of investment property; utilization of computers as a decision-making tool. Prerequisite: REE 3040, or permission of Instructor.

### **REE 4430 Legal Environment of Real Estate**

(5) Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; titles; conveyances, landlord and tenant; restrictions and zoning; eminent domain. Prerequisite: REE 3040, or permission of Instructor.

### **REE 4710 Regional Development**

Measurement and forecasting of economic activity in an urban/regional context; factors influencing economic growth and land allocation. Prerequisite: REE 3040, or permission of Instructor.

### REE 4730 Urban Land Acquisition and Development

Real estate development: acquisition of raw land; zoning; subdivision into sites; provision of utilities and services; financing; merchandising of improved sites. Emphasis on design and development of residential communities. Prerequisite: REE 3040, or permission of Instructor.

REE 4731 Urban Land Planning and Use (5) Theories of city growth and structure, operations of the real estate market in land allocation; application of above concepts to current practices in city and regional planning. Prerequisite: REE 3040, or permission of Instructor.

### **REE 4750 Real Estate and Regional**

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**Development Policy** A capstone course in integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. To be taken in the student's senior year. Prerequisite: Permission of Instructor.

**REE 4800 Real Estate Marketing** (5)Organization and operation of a real estate brokerage office, including selection, training and financing of sales personnel; obtaining and controlling listings; process and methods involved in the selling of real estate; promotion activities, including advertising and public relations; growth problems; professionalism; ethics. Prerequisite: REE 3040, or permission of Instructor.

### **REE 4905 Independent Study in Real Estate**

(1 - 10)

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### **REE 4930 Special Topics in**

(1 - 10)

**Real Estate** 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.

**REE 6020 Industrial Real Estate I** (5)General overview of industrial real estate, focusing on types of activities; locational requirements: financing techniques; brokerage; government influence: current trends; technological change; characteristics of industrial buildings.

# **Real Estate**

REE 6021 Industrial Real Estate II (5) Introduction to investment and valuation problems in industrial real estate. Topics include; taxation and investment analysis: discounted cash flow techniques; appraisal framework applied to income properties. A computer will be utilized in approaching the above problems.

### REE 6107 Advanced Real Estate Valuation

This course concentrates on the valuation of real estate and stresses market, cost, and income approaches to valuation, as well as underlying theory and practice. Instruction will be provided in residential appraisal and the principles of income forecasting, capitalization and mortgage-equity analysis of real estate investments.

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**REE 6111 Income Property Appraisal** (5) Valuation and appraisal framework applied to income properties; capitalization; rates and techniques; discounting and compound interest; mortgage-equity analysis. Includes Ellwood analysis; the role of computers: valuation as a guide to business decisions.

REE 6121 Real Estate Management (5) Theories and techniques of professional management of real estate, including such topics as creating a management plan; merchandising space; economics of alternates; market analysis; the maintenance process; owner-tenantmanager relations; operating budgets; tax considerations; ethics. Prerequisite: REE 3040, or permission of Instructor.

### REE 6195 Seminar in Real Estate Valuation Theory & Practice (5)

A study of the process of property valuation, utilizing cost, market and income approaches. The role of computers and mass appraisal techniques will also be examined. Prerequisite: Graduate standing and permission of Instructor.

REE 6200 Real Estate Finance (5) Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for construction financing and permanent financing of residential and incomeproducing property. Prerequisite: REE 3040, or permission of Instructor.

**REE 6207** Advanced Real Estate Finance (5) This course examines the various methods of financing real estate from the points of view of lenders, developers and owners, as well as the institutional structure within which they operate. Cases will be used to study decision processes for negotiating terms and conditions of these parties.

### REE 6221 Valuation of Real Estate

Valuation and appraisal framework applied to residential and income-producing property; role of computers; valuation theory and process as a guide to business decisions. Prerequisite: REE 3040, or permission of Instructor.

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REE 6295 Seminar in Real Estate Finance (5) A study of financial institutions, their methods: and inter-regional flows of funds in mortgage markets. Further emphasis is placed on national economic policies affecting mortgage markets. Prerequisite: Graduate standing and permission of Instructor.

REE 6301 Real Estate Investment (5) Fundamentals of acquisition, ownership and disposition of investment property: taxation and tax shelter; cash flow projections; analysis of specific types of investment property; utilization of computers as a decision-making tool. Prerequisite: REE 3040. or permission of Instructor.

### REE 6305 Advanced Real Estate Investment Valuation (5

The course emphasizes measuring risk and rate of return under conditions of uncertainty in real estate investment decision-making. Simulation is used to face the problems of matching investment strategy to the physical property, leverage, income taxation, and organizational alternatives.

### REE 6395 Seminar in Real Estate Investment and Taxation (5)

The techniques of real estate investment analysis, utilizing present value and cash flow approaches. The impact of Federal taxation on real estate investment decision. Prerequisite: Graduate standing and permission of Instructor.

REE 6710 Regional Development (5) Measurement and forecasting of economic activity in an urban/regional context; factors influencing economic growth and land allocation. Prerequisite: REE 3040, or permission of Instructor.

### REE 6715 Regional Planning and

Development (5) Methods of measuring and forecasting economic activity, and issues in allocating urban land. Techniques for analysis of government policies affecting urban growth and development. Prerequisite: Graduate standing and permission of Instructor.

### REE 6730 Urban Land Acquisition and Development

Real estate development: acquisition of raw land; zoning: subdivision in sites; provision of utilities and services; financing; merchandising of improved sites. Emphasis on design and de-

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velopment of residential communities. Prerequisite: REE 3040, or permission of Instructor.

### REE 6750 Real Estate and Regional Development Policy

A capstone course in integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. To be taken in the student's senior year. Prerequisite: permission of Instructor.

### REE 6795 Seminar in Urban Housing Policy & Problems (5)

Examination of national housing policies and their formulation; the role of the public and private sectors in regard to housing problems: effectiveness of various housing policies. Prerequisite: RES 6715, and permission of Instructor.

### REE 6800 Real Estate Marketing

Organization and operation of a real estate brokerage office, including selection, training and financing of sales personnel; obtaining and controlling listings; process and methods involved in the selling of real estate; promotion activities, including advertising and public relations; growth problems; professionalism; ethics. Prerequisite: REE 3040, or permission of Instructor.

### REE 6820 Industrial Brokerage (5)

Defines distinction between industrial brokerage and general real estate brokerage; role and functions of the industrial broker: industrial brokerage practice. Includes negotiating and leasing; regulations and ethics.

### REE 6906 Independent Study of Real Estate

(1 - 10)

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Individual conferences: supervised readings: reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### REE 6932 Special Topics in Real Estate

(1 - 10)

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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.

### REE 6935 Seminar in International Real Estate

Current trends and issues affecting industrial real estate on an international level. Topics include: the multinational corporation and its location decisions; foreign taxation; international trade and exchange rates.

### REE 6946 Industry Project (5)

Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by real estate faculty. Prerequisite: Permission of advisor.

# Transportation Management Master of Business Administration

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### TRANSPORTATION MANAGEMENT Definition of Prefix TRA-Transportation.

TRA 4012 Transportation Logistics (5) Consideration of transportation logistics and its relationship to production and distribution. Discussion of characteristics, management, legislation, and public regulation of various modes of transportation.

TRA 4101 Transportation Rate Making (5) Description and analysis of rate making, for both passenger and cargo, in the various modes of transportation—including trucks, railroad, airlines, and ocean transportation. Classes may concentrate on one particular mode for practical applications.

### **TRA 4203 Physical Distribution**

Management (5) Distribution in overall company operations; organization of the traffic function; determination of classification and rates; integration of transportation with production flow, inventory management, warehousing, marketing policies, and plant location.

### TRA 4240 Transportation Systems and Services

Survey and analysis of transportation modes, including rail, motor, air, water, pipeline, and mass transit, and their impact on the social and economic systems; discussion of current problems.

(5)

TRA 4320 Transportation Regulation (5) Study of the economic and constitutional basis of transport regulation; the scope of regulation. Discussion of the regulation of industrial traffic and transport modes; the structure and policies of federal and state regulatory agencies.

TRA 4380 Transportation Policy (5) Consideration of national transportation policy; the principal policy issues currently facing the transportation modes.

TRA 4410 Air Transportation (5) A comprehensive introduction to the total air transportation environment including general economic characteristics of basic areas; commercial, private, corporate, and airline categories; government promotion and regulation of the industry, including aircraft manufacturing and operation; air traffic control; and airport support and functions.

TRA 4411 Airport Management (5) Application of management principles to airport operation, with emphasis on unique characteristics of airport finance; government relations and regulations; airline relations and interdependence.

### TRA 4412 Aircarrier Management

An introduction to the broad scope of airline management practices and policies. Particular emphasis on problem analysis in financing, marketing, scheduling, fleet planning, facilities planning, maintenance, and general operations.

### TRA 4510 Mass Transportation and Urban Problems

Urban and metropolitan transportation development; requirements, benefits and costs of alternative approaches to mass transit; management techniques and operating principles; policy and regulation.

### TRA 4906 Independent Study in

Transportation (1-10) Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### TRA 4936 Special Topics in

Transportation(1-10)For groups of students desiring intensive study<br/>of a particular topic or a limited number of top-<br/>ics, not otherwise offered in the curriculum.<br/>Consent of faculty supervisor and Department<br/>Chairperson required.

**TRA 4941 Transportation Internship** (1-10)Full time supervised work in a selected organization. Prerequisite: At least twenty hours in transportation; consent of instructor and Department Chairperson required.

TRA 5245 Transportation Logistics (5) Quantitative methods applied to solving problems in business logistics; mathematical and statistical models; optionization 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 (5)

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 5601 Public Utility Principles

An analytical and descriptive survey course, treating the historical development of public utilities. The economics, legal environment, and organization of public utilities are discussed and analyzed. Regulation theory as it applies to electric, gas, water, and communications industries is covered.

### TRA 6035 Graduate Survey of Transportation Management (5)

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 (1-10) Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

### TRA 6936 Special Topics in Transportation

Transportation (1-10) 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.

### MASTER OF BUSINESS ADMINISTRATION PROGRAM Definition of Prefixes

ACC-Accounting; ECP-Economic Problems & Policy; FIN-Finance; MAN-Management; MAR-Marketing; QMB-Quantitative Methods in Business

ACC 6011 Financial Accounting Analysis (5) A survey of the principles and procedures of accounting. The course covers both financial and management accounting. The principal emphasis is on the potential uses, as well as limitations, of accounting information. (No credit will be given to students who have had undergraduate or graduate equivalents.)

ACC 6313 Accounting for Decision Making (5) A survey of the various uses of accounting information, both from the point of view of management and the investor. The course covers advanced topics in financial accounting, and the techniques utilized in financial analysis. It also emphasizes the differences among alternative accounting principles, and their effects on decision-making. Prerequisite: ACC 6011, or equivalent.

ECP 6704 Managerial Economics (5) The application of microeconomic and macroeconomic concepts to decision making within the organization; supply and demand, market structure and market behavior in specific industries; basic aggregate economic models; and forecasting. Prerequisite: QMB 6603, or equivalent.

# **Master of Business Administration**

(5)

### FIN 6428 Financial Management

In-depth examination of asset, liability and capital structure management, with emphasis on capital budgeting techniques; risk evaluation; working capital management; and methods of short term. intermediate, and long term financing. Prerequisite: ACC 6011, or equivalent.

MAN 6205 Organizational Analysis (5) Study of concepts, theories, research, and operational problems of management. Emphasis on analyzing the management processes of planning, organizing, leading, and controlling; and their relationship to technology, environment, and the nature of the task.

MAN 6501 Operations Management (5) This course covers the analysis of design and operations in organizational systems. The systems approach is used to provide a framework or general model of analysis, to which specific concepts, quantitative techniques, and tools can be related. The material presented has application to any organization of people and machines, including hospitals, governmental agencies. service organizations, and industrial concerns. Prerequisite: MAN 6721, or equivalent.

### MAN 6713 International Business Environment

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.

(5)

(5)

MAN 6721 Managerial Decision-Making (5) This course will investigate and analyze the decision-making problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis will be placed on providing a variety of decision-making experiences for the student. Prerequisite: QMB 6603, or equivalent.

### MAN 6725 International

Business Policy (5) An analysis of corporate strategies in a rapidly developing and changing world environment. Emphasis will be placed on forecasting, planning, and contingency strategies. The course is taught by case method and stresses the environmental and institutional constraints on decision making within the organization. Corporate executives are invited to discuss their case whenever possible.

### MAN 6726 Policy Analysis

The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issued. 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 quarter of master's program.

## MAN 6830 Organization Information

Systems (5) 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. Prerequisite: MAN 6205.

(5)

### MAN 6974 Master's Project

An individualized research project and report, which may include: field experience with a firm or agency; library research; computer programming; or project development. Course may only be taken with the approval of faculty adviser. Department Chairperson, and Dean.

### MAR 6716 Marketing Management (5)

A study of analysis and application of theory and problem solving in marketing management. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

### QMB 6603 Quantitative Methods in Management

Management (5) Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. (No credit will be given to students who have had undergraduate or graduate equivalents.)

# Faculty

## School of Business and Organizational Sciences

Dean	N. Paul Loomba
Associate Dean	Karl O. Magnusen
Associate Dean	David Lavin
Assistant Dean	Donald W. Fair
Chairpersons:	
Accounting	Irving L. Fantl
Finance & International	Business
	Duane Kujawa
Management	Enzo R. Valenzi
Marketing	<b>Richard M. Hodgetts</b>
North Miami Coordinator	Larry A. Smith

## Faculty

- Altman, Steven, D.B.A. (University of Southern California), Associate Professor, Management and Associate Vice President for Academic Affairs
- Awad, Elias, D.B.A. (University of Kentucky). Professor, Management
- Beaton, William R., Ph.D. (Ohio State University), Professor, Finance & International Business
- Brosh, Israel, Eng.Sc.D. (Columbia University), Visiting Associate Professor, Management
- Carter, Jack L., M.B.A. (University of Cincinnati), Assistant Professor, Accounting
- Cascio, Wayne, Ph.D. (University of Rochester), Associate Professor, Management
- Chang, Lucia S., Ph.D. (University of Texas at Austin), Associate Professor, Accounting

- Deastlov, Francis, M.B.A. (Harvard Business School), Assistant Professor, Finance & International Business
- Dessler. Gary, Ph.D. (City University of New York), Professor, Management
- Dorsett, Herman W., Ed.D. (Colambia University), Associate Professor, Management
- Erickson, Alf L., LL.M. (University of London), Assistant Professor, Accounting
- Fair, Donald W., M.Acc. (Bowling Green State University), CPA, Assistant Dean and Instractor, Accounting

Fantl, Irving L., Ph.D. (New York University), CPA, Chairperson and Professor, Accounting

Farrow, Dana, Ph.D. (University of Rochester), Assistant Professor, Management

- Fiedler, Anne, M.B.A. (University of Miami), Instructor, Marketing
- Friday, Earnest, M.B.A. (University of Cincinnati), Assistant Professor, Management
- Grosse, Robert, Ph.D. (University of North Carolina), Assistant Professor, Finance & International Business

- Hallbauer, Rosalie C., Ph.D. (University of Florida), CPA, C.M.A., Associate Professor, Accounting
- Hannan, Edward L., Ph.D. (University of Massachusetts), Associate Professor, Management
- Hendrickson, Harvey S., Ph.D. (University of Minnesota), CPA, Professor, Accounting
- Hodgetts, Richard M., Ph.D. (University of Oklahoma), Professor, Management, and Chairperson, Marketing
- Hogner, Robert H., Ph.D. (University of Pittsburgh), Associate Professor, Management
- Jerome, William T., III, D.C.S. (Harvard University), Distinguished University Professor, Management
- Johnson, Vance, M.S. (Georgio State University), Assistant Professor, Finance & International Business
- Kalogeras, Constantine, Ph.D. (City University of New York), Associate Professor, Finance & International Business
- Kujawa, Duane, Ph.D. (University of Michigan), Chairperson and Professor, Finance & International Business
- Lavin, David, Ph.D. (University of Illinois), CPA, Associate Professor and Associate Dean, School of Business & Organizational Sciences

## BUS 30

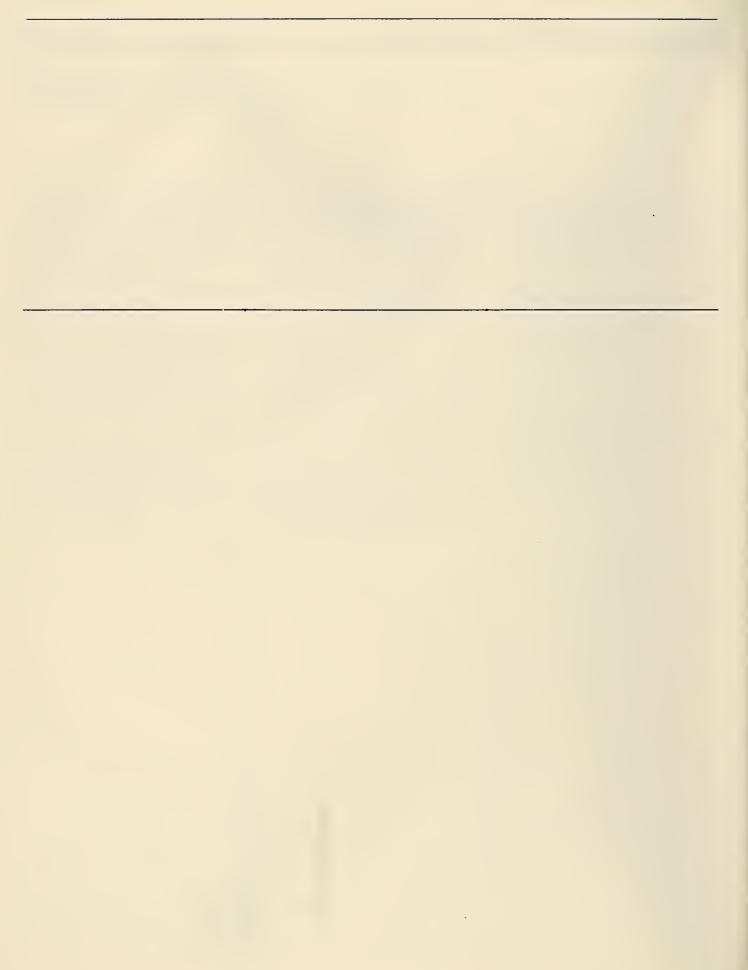
# Faculty

- Lewis, Ronald J., Ph.D. (Michigan State University), Professor, Accounting
- Loomba, N. Paul, Ph.D. (University of Wisconsin), Professor and Dean, School of Business & Organizational Sciences
- Lubell, Myron, D.B.A. (University of Maryland), CPA, Associate Professor, Accounting
- Luytjes, Jan B., Ph.D. (University of Pennsylvania), Professor, Management
- Magnusen, Karl, Ph.D. (University of Wisconsin), Associate Professor and Associate Dean, School of Business & Organizational Sciences
- Mills, Joan P., Ph.D. (University of South Carolina), Assistant Professor, Management
- Most, Kenneth S., Ph.D. (University of Florida), CPA, F.C.A., Professor, Accounting
- Newpeck, Frederick F., Ph.D. (University of Massachusetts), Associate Professor, Management
- Nicholls, J. A. F., D.B.A. (Indiana University), Associate Professor, Management
- Nunez, Leandro S., M.B.A. (Roosevelt University), CPA, Instructor, Accounting
- Parker, Alan J., Ph.D. (Columbia University), Associate Professor, Management

- Phillips, Edward P., LL.M. (New York University), Assistant Professor, Accounting
- Prakash, Arun, M.B.A. (University of California), Assistant Professor, Finance & International Business
- Raheem, Lynda, M.B.A. (University of Miami), Instructor, Marketing
- Robey, Daniel, D.B.A. (Kent University), Associate Professor, Management
- Rodriguez, Leonardo, D.B.A. (Florida State University), Associate Professor, Management and Accounting
- Roslow, Sydney, Ph.D. (New York University). Associate Professor, Marketing
- Roussakis, Emmanuel, Ph.D. (Catholic University of Louvain, Belgium), Associate Professor, Finance & International Business
- Salzer, Willard M., M.A. (University of Colorado of Boulder). Associate Professor, Marketing
- Seaton, Bruce F., Ph.D. (Washington University), Associate Professor, Marketing
- Shapiro, Gloria, Ph.D. (University of Miami), Assistant Professor, Management
- Simmons, George B., D.B.A. (Indiana University), Distinguished University Professor, Finance & International Business

- Slutsky, Lois, M.S.M. (Florida International University), CPA, Instructor, Accounting
- Smith, Larry A., Ph.D. (State University of New York), Associate Professor, Management
- Sutija, George, M.B.A. (Columbia University), Associate Professor, Finance & International Business
- Taggart, William M., Ph.D. (University of Pennsylvania), Associate Professor, Management
- Thomas, Robert J., M.B.A. (University of Miami), Assistant Professor, Marketing
- Turban, Efraim, Ph.D. (University of Colifornia at Berkeley), Professor, Management
- Valenzi, Enzo R., Ph.D. (Bowling Green University), Chairperson and Associate Professor, Management
- Vogel, Ronald H., Ph.D. (University of Michigan), Associate Professor, Marketing
- Welch, William W., Ph.D. (University of Michigan), Associate Professor, Finance & International Business
- Yeaman, Doria, J.D. (University of Tennessee), Lecturer, Accounting ...

# **School of Business**



# School of Education ed-u-ca-tion (ej/oo kā/s or process of imparting or developing the powers and generally of preparing for mature life. 2. the a acquiring particular know or profession. 3. a degre a university education. 4. ng. or study: t tioz t of teaching S( ia), equiv. struction, sc .nply a discipli TR of stand learning. E

of the special and general

# **General Information**

# **School of Education**

2

EDU

The School of Education offers courses of studies and experiences for personnel who are or will be professionally engaged in education or training. Such professional development may lead to degrees at the bachelor, master, specialist, or doctoral level. In addition, it is feasible for experienced educators to pursue non-credit or certificate study and field experience.

Each applicant should review the numerous choices of major concentrations and program objectives. The range of programs includes childhood education. early childhood education, curriculum and instruction in the various subspecialties in secondary education, adult education, educational administration and supervision, bilingual and intercultural education, technical and vocational education. psycho-education, urban education, community college education and human resources development, special education, international development education, counselor education, and teacher education.

Advisement services are available by telephone (305) 552-2721, by correspondence, or by prearranged visit with a counselor at the North Miami or Tamiami Campus.

The School of Education serves county and state education agencies in inservice staff development. curriculum and materials development. joint research projects and evaluation programs. The Teacher Education Center (TEC) Program has, under formal agreement, committed specialists in the School of Education to program development and technical assistance. Of major concern is the development of urban education and bilingual education in the metropolitan areas of Dade and Broward counties. For this reason, new initiatives include programs in urban administration, urban teacher education, and Teacher Corps, adult and human resources development, and intercultural learning.

The School of Education engages in cooperative programs of study and development with national and international agencies. These include international student programs: national and international exchanges of scholars; technical assistance for the advancement of educational personnel, curriculum, materials, and research in developing nations; graduate degree and certificate programs in international development education with experiences in the major metropolitan and rural areas of Florida and, optionally, the national and international educational agencies in Washington, D.C.; global education curriculum development in schools; overseas American schooling; and study, research, and management in federal education agencies and national professional associations.

The three major purposes of the School of Education-teaching, service, and research-are realized in its commitment in local, national, and international educational endeavors.

# **General Program Design**

# **Undergraduate Studies**

Undergraduate courses offered by the School of Education are designed to be performance or competency based, as well as field-based for professional service in education and training.

Typically, undergraduate students will complete 90 quarter hours of study at Florida International University, including a residency requirement of 45 quarter hours prior to graduation. Prior to formal admission to the University, a student may elect to take 20 quarter hours as a Special Student which, if applicable to the major field of study, may be applied to the degree program.

Foundations of Education Requirement. Teacher education regulations in Florida require completion of one course each in the social and psychological foundations of education. These may be completed at the University or at any other accredited college or university.

Reading Competence Requirement. Florida Department of Education regulations require that teacher certification applicants show evidence of preparation in specific skills for teaching reading. All programs in the School are designed to meet this requirement.

Professional Education Core. Every teacher education student, during the junior year, must enroll in the following three common courses:

EDF 3604 Schooling in America (5) EDG 3321 General Teaching Lab I: Basic Teaching Skills (5)

Basic Teaching Skills EDG 3322 General Teaching Lab II:

Human Relations Skills

(5)

Subsequent special teaching laboratories and courses build on these core courses to extend and refine understandings and skills. All programs include one full quarter (15 hours) of student teaching.

Bachelor degree programs typically require coursework in the College of Arts and Sciences or in one of the other Schools. These courses provide necessary subject matter preparation consonant with professional preparation.

Upon completion of program requirements, the Bachelor of Science degree is awarded and qualifies the student for a Florida Rank III graduate Teacher Certificate in the field of specialization.

# **Graduate Studies**

Graduate studies offered by the School provide specialization in degree programs developed to reflect individual student interests. A typical program will include courses, seminars, and appropriate field experiences.

Graduate students will complete at least 45 quarter hours of study at the University to earn a Master of Science in Education degree. The programs in Counselor Education and School Psychology require 90 quarter hours. As a general rule, a student may transfer 10 quarter hours taken at another accredited college or university toward a 45-quarter hour master's degree program, and 15 hours toward a 90 hour program at Florida International University. Also, prior to formal admission to the University, a student may elect to take 15 quarter hours as a Special Student which, if applicable to the major field of study, may be applied to the degree program.

Doctoral students pursue courses in cooperative programs offered by Florida International University, Florida State University, the University of Florida, and other state universities.

Reading Competencies Requirement. Florida Department of Education regulations require

all teacher education applicants to show evidence of preparation in specific skills for teaching reading. This may be waived in graduate programs for students who can verify this training at the undergraduate level or in an approved in-service education program. Otherwise, and according to the student's major, either RED 6147 or RED 6333 will be required as part of the degree program.

# Educational Leadership and $\sim$ Human Resource Development

### Admission

### **Undergraduate Studies**

The School of Education will accept as an undergraduate any person who has completed a minimum of 90 quarter (60 semester) hours of general education undergraduate study.

# Graduate Studies Master's Degree Programs

An applicant for admission to graduate study must meet the existing criteria set forth by the Board of Regents of the State University System of Florida. Presently, these are a Grade Point Average of 3.0 (B) in the third and fourth year of an undergraduate program, or a combined score of 1000 on the Graduate Record Examination (verbal and quantitative sections). A special CLEP examination may be used in lieu of the GRE by certain students seeking admission to the master's degree program in Vocational Education. All applicants *must* submit a GRE test score.

### Cooperative Doctoral Programs Cooperative Specialist and Doctoral Programs

The School of Education, in cooperation with the University of Florida, Florida State University and other universities of the State University System, offers specialist and doctoral programs in several fields and is developing others. General requirements for admission to these programs are (1) a combined score of 1100 on the Verbal and Quantitative portions of the Graduate Record Examination for the doctoral program, 1000 for the specialist program; (2) a grade point average of 3.5 on previous graduate work; (3) a grade point average of 3.0 in the last two years of undergraduate study; (4) at least two years of successful experience in the field of education; and (5) at least three letters of reference.

# North Miami Campus

The North Miami Campus School of Education is located at 151th Street and Biscayne Boulevard (Interama). This Campus, opened in 1977, is designed to serve South Broward and North Dade students. The North Miami Campus has degree and certificate programs under development in the following areas: Reading, Elementary Education, Early Childhood Education, Mental Retardation, Emotional Disturbances, Educational Administration and Supervision, Technical Vocational Education, fields of Secondary Education, and Counseling.

Programs may lead to bachelor's, master's, or doctoral specialty degrees.

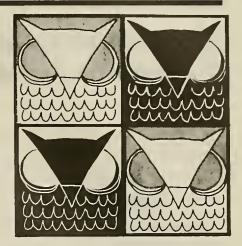
Of major importance is the creation of joint programs for in-service staff development in Broward and Dade County Schools. In addition, international and urban student programs are enhanced by the individual assistance evident on a new campus and by the attractive surroundings of northern Biscayne Bay.

### Division of Educational Leadership and Human Resource Development

John A. Carpenter, Professor Charles Divita, Jr., Professor and Chairperson Stephen M. Fain, Associate Professor Robert V. Farrell, Associate Professor Allen Fisher, Associate Professor Paul D. Gallagher, Associate Professor Lorraine R. Gay, Associate Professor Barry Greenberg, Associate Professor John J. Kampsnider, Associate Professor Peter F. Oliva, Professor Sarah W. J. Pell, Associate Professor Ronald Perry, Associate Professor G. Wesley Sowards, Professor Jack A. Summer, Assistant Professor James D. Wells, Associate Professor

The Division offers graduate programs in Administration and Supervision, Adult Education, and Parks and Recreation Administration. It also offers the undergraduate "core" courses required for every teacher education student and a Bachelor's Degree in Parks and Recreation Administration.

In addition, the Division offers a number of advanced general courses, some of which are requirements of various master's degree programs offered by the School. Among these offerings are courses in Instructional Technology, Instructional Media, Analysis of Teaching, Educational Research, and Comparative and International Education.



# **Undergraduate Courses**

The Division offers the three "core" courses required for every teacher education student: EDF 3827, EDG 3321, and EDG 3322.

A Bachelor of Science degree is granted to a student completing the Parks and Recreation curriculum. Within the general requirements in this program, the student is given an opportunity to develop a program consistent with interest s and career goals.

# **Parks and Recreation**

#### DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Introductory sociology and mathematics.

Recommended Courses: It is recommended that the student desiring to enter the Parks and Recreation curriculum be a graduate of a two-year program in Recreation Leadership or its equivalent.

UPPER DIVISION PROGRAM:

		Quarter Hours
Subject Matter		
Specialization		55-70
HFT 3403	Manage-	
	ment	
	Accounting	
	for the	
	Hospitality	
	Industry	5
LEI 3542	Principles	
	of Park and	
	Recreation	
	Manage-	
	ment	5
LEI 3630	Care and	
	Mainte-	
	nance of	
	Grounds	5
LEI 3524	Personnel	
	Manage-	
	ment in	
	Parks and	
	Recreation	5
MAN 3010	Organiza-	
	tion and	
	Manage-	
	ment	5
		(Continued)

# **Educational Leadership and Human Resource Development**

LEI 3437	Program		
	Develop-		
	ment in		
	Parks and		
	Recreation		
	Manage-		
	ment	5	
MAN 4301	Personnel		
	Manage-		
	ment	5	
LEI 4590	Seminar in		
	Parks and		
	Recreation		
	Manage-		
	ment	5	
LEI 4940	Internship	15-30	
Advised Electi	ves		20-35

Students will take 20-35 quarter hours of electives after consultation with their advisor

# Graduate Programs Administration and Supervision

#### Master's Degrees

The Division offers master's degrees in Elementary School Administration and Supervision; Secondary School Administration and Supervision; and General School Administration and Supervision (combined Elementary and Secondary). The Master of Science degree is awarded on successful completion of all requirements; the program qualifies graduates for Rank II certification in Administration and Supervision in Florida. As soon as students are admitted to the master's degree program, they should see their assigned advisors to plan a program of studies.

Requirements for each of the three programs are outlined below. In addition to the requirements shown below, each student must satisfy, prior to obtaining the degree, a state requirement of competency in the teaching of reading. The reading requirement may be satisfied by successful completion of one of the following alternatives: (1) an appropriate course or courses taken as part of the undergraduate program, (2) RED 6656. Instruction in Reading, or RED 6334, Teaching of Reading in Secondary School, at Florida International University, (3) an approved course taken at another accredited institution, or (4) an approved in-service course.

An applicant to the program in School Administration and Supervision must meet the Board of Regents criteria for admission to graduate study, possess or be qualified for a Florida Rank III graduate certificate, and have completed at least one year of successful teaching as a fulltime teacher in an elementary or secondary school. (Service as an aide or substitute does not meet the experience requirement.)

#### To be certified in School Administration and Supervision in Florida a person must have at least three years of successful teaching experience in an elementary or secondary school. While one year of successful teaching will meet the experience requirement for *admission* to the master's degree program, the three-year teaching experience requirement must have been completed either before or at the same time as degree requirements are completed.

# **Certification Program**

Persons who possess a master's degree in a field other than Administration and Supervision may enroll as special non-degree seeking students to work toward certification in Administration and Supervision.

# Specialist and Doctoral Programs

FIU offers in cooperation with the University of Florida specialist and doctoral programs in School Administration and in Curriculum and Instruction: Instructional Leadership. General requirements for admission to these programs are (1) 1100 score on the Verbal and Quantitative portions of the Graduate Record Examination for the doctoral program, 1000 for the specialist program, (2) 3.5 grade point average on previous graduate work, (3) 3.0 grade point average in the last two years of undergraduate study, (4) at least two years of successful experience in the field of education, and (5) at least three letters of reference. Details about these programs may be obtained from the Chairperson. Division of Educational Leadership and Human Resources Development.

# Master's Program Requirements Elementary School Administration and Supervision

DEGREE: Master of Science

		Quarter	Hours
Required Cour.	ses:		42-44
EDA 6061	The Organization		
	and Operation of		
	Public School		
	Systems	4	
EDA 6223	Emerging Designs	5	
	for School		
	Organization and		
	Staff Utilization	4	

EDA 6510	The	
	Administration of	
	an Elementary	
	School	4
EDA 6930	Seminar in	
	Administration	
	and Supervision	3
EDA 6943	Supervised Field	
	Experience 3-	-5
EDE 6205	Curriculum	
	Design for	
	Childhood	
	Education	4
EDF 5481	Analysis and	
	Application of	
	Educational	
	Research	4
EDG 6250	Curriculum	
	Development	4
EDG 6285	Curriculum	
	Evaluation and	
	Improvement in	
	Urban School	
	Systems	4
EDS 6050	Supervision in	
	Education	4
EDS 6115	Staff Development	
	Programs in	
	Urban School	
	Systems	4
	Education, School of	
Business and C	Organizational Sciences	

Secondary School Administration and Supervision

or College of Arts and Sciences

I - 3

45

DEGREE: Master of Science

		Quarter Hours
Required Cour.	ses:	42-44
EDA 6061	The Organization	
	and Operation of	
	Public Schools	
	Systems	4
EDA 6223	Emerging Designs	5
	for School	
	Organization and	
	Staff Utilization	4
EDA 6530	The	
	Administration of	•
	a Secondary	
	School	4
EDA 6930	Seminar in School	l
	Administration/	
	Supervision	3
EDA 6943	Supervised Field	
	Experience	3-5
		(Continued)

# **Educational Leadership and Human Resource Development**

EDF 5481	Analysis and	
	Application of	
	Educational	
	Research	4
EDG 6250	Curriculum	
	Development	4
EDG 6285	Curriculum	
	Evaluation and	
	Improvement in	
	Urban School	
	Systems	4
EDS 6050	Supervision in	
	Education	4
EDS 6115	Staff Development	
0000000	Programs in	
•	Urban School	
	Systems	4
ESE 6215	Secondary School	
202 0210	Curriculum	4

### General School Administration and Supervision

DEGREE: Master of Science

DEOREE. MI		
	Q	uarter Hours
Required Cour:	ses:	50-52
EDA 6061	The Organization	
	and Operation of	
	Public School	
	Systems	4
EDA 6223	Emerging Designs	
	for School	
	Organization and	
	Staff Utilization	4
EDA 6510	The	
	Administration of	
	an Elementary	
	School	4
EDA 6530	The	
	Administration of	
	a Secondary	
	School	4
EDA 6930	Seminar in School	
	Administration/	
	Supervision	3
EDA 6943	Supervised Field	
	Experience	3-5
EDE 6205	Curriculum	
	Design for	
	Childhood	
	Education	4
EDF 5481	Analysis and	
	Application of	
	Educational	
	Research	4
EDG 6250	Curriculum	
	Development	4
	r	

EDG 6285	Curriculum Evaluation and	
	Improvement in	
	Urban School	
	Systems	4
EDS 6050	Supervision in	
	Education	4
EDS 6115	Staff Development	
	Programs in	
	Urban School	
	Systems	4
ESE 6215	Secondary School	
	Curriculum	4

## **Adult Education**

The Graduate Program in Adult Education is designed for the individual who is serving, or chooses to serve as learning facilitator, training director, counselor, administrator, curriculum developer and/or researcher in adult and continuing education programs in business and industry, public schools, hospitals, governmental agencies, community colleges, universities, civic organizations, military service or other agencies. Graduate programs of study are designed in relation to an individual's specific interests, needs and career goals.

The Division offers two master's degree programs in Adult Education—Adult Education: Administration and Supervision, and Adult Education; Curriculum and Instruction. Two options are possible in the Administration and Supervision program: (1) Public School Administration (which leads to Florida Rank 11 certificate), or (2) General Administration/Non-Public School Administration (not a certification program).

### Professional Certificate in Adult Learning Systems

The professional certificate in adult learning systems is a comprehensive and integrated university-based option to provide professionals with skills and training for adult education programmers. The non-degree certificate program may be pursued (1) in conjunction with a bachelors or masters degree; or (2) beyond the bachelors or masters degree; or (3) independent of the pursuit of a degree. The latter option is for persons having special responsibilities and experiences in the field of Adult/Continuing Education.

The required course of study and required sequence is as follows: (total-20 hours)

#### Quarter Hours 20

Required Cour	rses:	2
ADE 5925	Workshop in Adult	
	Education	2
ADE 5385	Adult Teaching and	
	Learning	4
ADE 5180	Program Development	
	in Adult Education	
	Community Level	4
ADE 5383	Program Development	
	in Adult Education	
	Instructional Level	4
ADE 5935	Special Topics in Adult	
	Education Advised	
	Electives	4
ADE 6930	Seminar in Adult	
	Education Research,	
	Evaluation, and	
	Problem Solving in	
	Adult Education	2

Admission:

To be admitted to the program the student must:

- a. Hold or be seeking a bachelor's or master's degree from an accredited institution;
- b. Have submitted three letters of endorsement describing ability to engage in and profit from such a program of studies;
- c. submit a personal statement of interests and goals which relate to adult/continuing education.

Applicants will develop a project or problemoriented learning contract during the initial workshop to be pursued throughout the program. Contracts will be refined as the student progresses through the first part of the program of studies. The culminating activity, the Seminar, ADE 6930, will require the student to complete, share and evaluate the tasks and activities within the individual learning contract.

# Cooperative Doctoral Program

A Miami-based cooperative FIU/FSU program leading to the Doctor of Education (Ed.D.) with a major in Adult Education is anticipated for the Winter Quarter, 1980. This program is directed toward a broad spectrum of personnel from business and industry, government, public school, community colleges and universities, health agencies, libraries, religious and civic organizations, etc., whose major responsibilities call for leadership in designing, providing and evaluating education and training programs for adult learners.

Students making application to the program should consult with the academic advisors for

#### 6 EDU

# School of Education

# Educational Leadership and Human Resource Development

the FIU/FSU cooperative doctorall program in order to ensure proper guidance.

# Administration and Supervision

DEGREE: M	aster of Science		
	Quar	ter Ho	ours
Required Core	: to be selected with an		
advisor from t	he following:	24-	-28
ADE 5081	Principles and		
	Practices of Adult		
	Education	4	
ADE 5260	Organization and		
	Administration of		
	Adult Education	4	
ADE 5385	Adult Teaching and		
	Learning	4	
ADE 5180	6		
	Development in		
	Adult Education:		
	Community/		
	Institutional Level	4	
EDF 5481	Analysis and		
	Application of		
	Education Research	4	
RED 6337	Teaching Reading		
	in the Secondary		
	School	4	
	se as elective	4	10
	ssional Emphasis:	105	12
	iblic School Administra	101	
Certification			
EDA 6061	The Organization		
	and Operation of Public School		
		4	
EDS 6050	Systems Supervision in	-	
ED3 0050	Education	4	
EDG 6350	) Curriculum	-	
LDG 0230	Development	4	
OF	Screiopment	1	
	eneral Administration/		
	School Administration		
(12):	ourser reministration		
	ion-related courses may	be	
	n education, business,		
	L public administration	ог	
	in consultation with an		
advisor.			
	ne candidate will be		

Electives: The candidate will be encouraged to select courses that will increase competence in a teaching specialty or a supportive social/ behavioral science.

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# Curriculum and Instruction

**Ouarter** Hours

DEGREE: Master of Science

	Quarter .	110	· uu 3
Required Core:			24
ADE 5081	Principles and		
11012 2001	Practices of Adult		
	Education	4	
ADE 5260	Organization and	-	
ADE 5200	Administration of		
	Adult Education	4	
1 DE 6296		4	
ADE 5385	Adult Teaching and		
	Learning	4	
ADE 5180	Program		
	Development in		
	Adult Education:		
	Community/		
	Institutional Level	4	
ADE 5383	Program		
	Development in		
	Adult Education:		
	Instructional/Activity		
	Level	4	
ADE course	e as elective	4	
Area of Profes	sional Emphasis:		12
EVT 5168	Curriculum		
	Development in		
	Vocational Education	4	
or			
EDG 6250	Curriculum		
2200 0200	Development	4	
EDF 5287	Instructional		
LD1 5207	Technology	4	
EDF 5481	Analysis and	-	
LD1 5401	Application of		
	Educational Research	4	
T.I	Educational Research	-	9
Electives:			9
	e will be encouraged to		
	that will increase		
	a teaching specialty or a	1	
supportive so	cial/behavioral science.		
			45
			1.

# Parks and Recreation Administration

The graduate program in Parks and Recreation Administration is planned to provide advanced preparation for administrative and supervisory level positions within a leisure services delivery system. The program includes electives which give flexibility regarding an individual's specific career goals as a future practitioner in Parks and Recreation Administration.

To enter the program in Parks and Recreation Administration, a student must: (1) have a 3.0 GPA in upper division work or score 1000 or more on the Graduate Record Examination, and (2) possess a bachelor's degree, and have appropriate undergraduate preparation in recreation.

DEGREE: Ma	ister of Science		
		Quarte	r Hours
Professional Education:			413
LE1 5510	Program		
	Administration		
	in Parks and		
	Recreation	4	
LEI 5440	Program		
	Development		
	in Parks, and		
	Recreation	4	
PAD 6106	Organization		
	Theory and		
	Administrative		
	Behavior	5	
Areas of Specie	alization:		18-32
PAD 6417	Public		
	Personnel		
	Administration	5	
PAD 6227	Public Finance		
	and the		
	Budgetary		
	Process	5	
LEI 5595	Seminar in		
22.00000	Parks.		
	Recreation.		
	and Athletic		
	Management	4	
LE1 5907	Individual		
DL. 570.	Study	1 - 5	
LEI 6922	Supervised		
551 0722	Field		
	Experiences in		
	Parks and		
	Recreation	5-15	
Electives:			14
2.100111001			
			45

# **Course Descriptions**

#### Definition of Prefixes

ADE-Adult Education; EDA-Education: Administration; EDE-Education: Elementary; EDF-Education: Foundations; EDG-Education: General; EDS-Education: Supervision; EME-Education: Technology and Media; ESE -Education: Secondary; LE1-Leisure.

# **Educational Leadership and Human Resource Development**

### General Professional Education

#### EDF 3827 Schooling in America

(5)(F,W,S,SS)

Systematic analysis of contemporary schooling and development of an understanding of the nature of educational systems, and the impact of political, legal, fiscal, and cultural issues upon these systems.

#### EDF 5216 Affective Learning in the Classroom

Classroom (4)(S) A behavioral approach to affective teaching techniques, including theoretical background, behavioral definitions, writing affective objectives, and evaluation of affective learning in the classroom. A field experience will be included.

#### EDF 5287 Instructional Technology: Systems Approach (4)(F)

Development of instructional competencies, with an emphasis on the use of a systems approach in the design, implementation, and evaluation of programs.

#### EDF 5430 Measurement and Evaluation in Education (4)(F)

Competencies required for the design, construction or selection, and evaluation of measuring instruments.

#### EDF 5481 Analysis and Application of Educational Research

(4)(F,W,S,SS)

Competencies required for the design, implementation, and evaluation of educational research, including: problem formulation and analysis; sample selection; instrument selection; formulation of research design and procedure; and data analysis.

#### EDF 5710 National Educational Systems: A Comparative Analysis (4)(W)

Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of the responses of national educational systems to common educational issues.

#### EDF 5720 Latin American Education: An Historical and Contemporary Overview (4)(S)

Historical and current development of Latin American education, and analysis of the principal forces shaping this development.

#### EDF 5724 African Educational Systems: A Comparative Approach (4)(5

Comparative Approach (4)(S) Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices.

#### EDF 5780 Intercultural Education: National and International Perspectives (4)(F)

Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally.

EDF 5905 Individual Study (1-5)(ARR)The student plans and carries out an independent study project under direction. Topics are to directly relate to content of EDU courses. Independent study may not substitute for regular course offerings. Prerequisite: Written permission of the chairman of the Division and the approval of the instructor.

EDF 5955 Field Study Abroad (5-10)(ARR)Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad.

#### EDF 6215 Application of Learning Theory to Instruction (4)(W)

Competencies required for analysis of selected learning theories and application of these theories to an instructional system.

#### EDF 6486 Research Methods in Education: Experimental Design and Analysis (5)(W)

Competencies required for the design and analysis of complex educational problems, including: formulation of pre-experimental, true experimental, quasi-experimental, and factorial designs; and related analyses. Prerequisite: EDF 5481.

#### EDG 3321 General Teaching Laboratory I: Basic Teaching Skills

(5)(F,W,S,SS)

Practice in generic teaching skills, techniques and strategies basic to all age levels and subject matter areas. Lecture, seminar, and laboratory.

#### EDG 3322 General Teaching Laboratory II: Human Relations Skills

#### (5)(F,W,S,SS)

Development of human relations skills to facilitate interaction and prepare students to deal with individuals and groups in a multi-ethnic urban classroom.

EDG 5325 Analysis of Teaching (4)(W)Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior.

EDG 6925 Workshop in General Professional Education

(3~5)(ARR)

Offers an opportunity for school personnel to participate in a problem-oriented workshop in

one of the fields of general professional education.

### EME 5315 Instructional Media (4)(W)

Development of competencies for effective selection and utilization of instructional media. Consideration of sources, selection, evaluation, and methods of implementing media.

#### ADMINISTRATION AND SUPERVISION\*

#### EDA 6061 The Organization and Operation of Public School Systems

(4)(F,SS)

Examines the public school system as a complex formal organization; the dynamics of community-school interactions; goal clarification and program evaluation; procurement and allocation of resources; and the legal context within which the school system operates.

#### EDA 6223 Emerging Designs for School Organization and Staff

Utilization (4)(W,SS) Critical analysis of alternatives to traditional school organization and staffing, and possible future alternatives in public education.

#### EDA 6510 The Administration of an

Elementary School (4)(F,S) Development of competencies required to function as the principal of an elementary school, with particular attention to the urban setting.

#### EDA 6530 The Administration of a

Secondary school (4)(F,S) Development of competencies required to function as the principal of a secondary school, with particular attention to the urban setting.

#### EDA 6905 Individual Study in School Administration/Supervision

(1-5)(ARR)

For advanced students wishing to undertake an individual project directly related to school administration or supervision. May not substitute for regular course offerings. Prerequisites: (1) The student must be in a master's degree program in educational administration and supervision at this university, and (2) written permission of the chairman of the Division and then approval of the instructor is required.

#### EDA 6928 Workshop in School

#### Administration/Supervision

(3-5)(ARR)

Offers an opportunity for experienced school administrators and supervisors to participate in a problem-oriented workshop.

#### EDA 6930 Seminar in School

Administration/Supervision (3)(S) In-depth study of selected issues and developments in school administration and supervi-(Continued)

# **Educational Leadership and** / **Human Resource Development**

sion, including an examination of related research.

#### EDA 6943 Supervised Field Experience (1-5)(F,W,S)

Development of supervisory skills by undertaking an arranged field-based assignment. Prerequisites: The student must be in a master's degree program in educational administration and supervision at this university, and must have completed most of the required program courses. Also offered each quarter for students in the FIU/UF Cooperative Specialist and Doctoral Programs.

#### EDG 6250 Curriculum Development

(4)(W,SS) Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling.

#### EDG 6285 Curriculum Evaluation and Improvement in Urban School Systems (4)(W,SS)

Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum.

#### EDS 6050 Supervision in Education

(4)(W,SS) Examines supervision as a process and the supervisory role in an educational setting, with particular attention to the development of supervision skills necessary to facilitate both individual and group change.

#### EDS 6115 Staff Development Programs in Urban School Systems (4)(F,SS)

Identification and analysis of various staff training strategies and techniques used in an educational setting, with an emphasis on defining staff problems and the processes by which such problems are solved.

\*Quarters indicated below are for Tamiami Campus and subject to change. Quarters in which courses will be offered on the North Miami Campus will be published in future catalogs.

#### ADULT EDUCATION

#### ADE 5081 Principles and Practices of Adult Education (4)(F,S)

Developing a rationale for and philosophy of adult education; contrasting agencies, programs, and curricula; evaluating adults' educational pursuits; analyzing factors affecting adult education; differentiating adults and youths as learners; planning and appraising programs for adults.

#### ADE 5180 Program Development in Adult Education: Community/ Institutional Level (4)(F

Institutional Level (4)(F,S) Analyzing variables central to program and community development; analyzing principles and roles requisite for effective group functioning; developing a consensus group philosophy; designing, conducting and interpreting studies of community objectives; mobilizing and integrating resources; planning, conducting and interpreting evaluation studies.

#### ADE 5195 Designing Educational Programs

for Disadvantaged Adults (4)(S) Distinguishing various forms of disadvantagement; analyzing these problems and forces which inhibit their solution; critiquing responses to these problems; developing training programs, curricula and materials, recruitment strategies, and evaluation designs.

#### ADE 5260 Organization and Administration

of Adult Education (4)(W) Analyzing regulations affecting adult education; selecting and training staff; selecting organization patterns appropriate for given programs; executing managerial responsibilities; arranging for community involvement; and administering supportive services.

#### ADE 5383 Program Development in Adult Education: Activity/Instructional Level (4)(S)

Analyzing models for instructional design; identifying and evaluating variables related to such models; developing designs unique for adult learners.

#### ADE 5385 Adult Teaching and Learning (4)(W,SS)

Differentiating theories of learning in relation to teaching adults; contrasting characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to learning situations appropriate for adults.

#### ADE 5906 Individual Study in Adult

Education (1-5)(F,W,S,SS) Specialized intensive study in areas of interest to the student. Subject to approval of program adviser.

#### ADE 5925 Workshop in Adult Education (3-15)(APR)

Short-term intensive developmment of selected operational competencies related to instructional, curricular and/or administrative skills, practices, and procedures of special interest to students in adult education.

#### ADE 5935 Special Topics in Adult

Education (1)(APR) "Mini-courses" which provide for an examination of special facets of adult education

#### ADE 5945 Supervised Field Experiences in Adult Education

#### (1-15)(F,W,S,SS)

Internship placements in various on-going adult education programs, according to students' needs and interests. On-site supervisory visits are made by program advisor. Joint conferences and seminars involving the student, the program advisor, and an appropriate representative of the cooperating agency are also conducted intermittently.

#### ADE 6930 Seminar in Adult Education

(2-4)(S) Provides intensive study of instructional, curricular, and/or administrative principles and practices, for the solution of problems of special interest to students in adult education.

#### PARKS AND RECREATION

#### LEI 3437 Program Development in Parks and Recreation Management

(5)(S)

Students will attain competencies in developing objectives, planning a program, and implementing and administering the program.

#### LEI 3524 Personnel Management in Parks and Recreation (5)(W)

After a study of human interaction in a management setting, students will demonstrate competencies necessary for hiring staff, conducting group dynamics, communicating to the public, and administering democratically.

# LEI 3542 Principles of Park and Recreation

Management (5)(F) An exploration of the field of recreation and parks including career areas. Students will be expected to demonstrate an understanding of management responsibilities and supervisory level principles and theory.

#### LEI 3630 Care and Maintenance of Grounds (5)(W)

A study of procedures for maintaining outdoor facilities. Students will be expected to display competence in proper maintenance of areas normally found in parks and recreation centers.

LEI 3631 Turf Grass Management (5)(F) A practical approach to the care and maintenance of special grasses such as those found on golf courses and other recreational facilities.

#### LEI 4590 Seminar in Parks and Recreation Management (5)(S)

A discussion of current problems, issues and trends in parks and recreation management, which will help the student develop those competencies necessary to deal with everyday aspects of particular programs.

# **Childhood Education**

LEI 4940 Internship (15)(F,W,S,SS) An on-the-job training program designed to enable students to develop those competencies which can only be gained from practical experience.

LEI 5440 Program Development in Parks and Recreation (4)(W) The development of specific programs in parks and recreation with emphasis on special programs for young children, retardates, handicapped persons, and the elderly.

LEI 5510 Program Administration in Parks and Recreation (4)(F) A detailed analysis of administrative proce-

dures and responsibilities in connection with parks and recreation facilities and personnel.

LEI 5595 Seminar in Parks and Recreation Administration (4)(S)

A discussion of current problems, issues, and trends in administration of parks and recreation programs.

LEI 5907 Individual Study in Parks and Recreation Administration

(1-5)(F,W,S)

An opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor and Department Chairperson required.

#### LEI 6922 Supervised Field Experiences in Parks and Recreation

Administration (5-15)(F,W,S) A practical experience for individuals interested in administrative responsibilities. Permission of the instructor and Department Chairperson required.

# **Division of Childhood Education**

Richard L. Campbell, Associate Professor and Chairperson Edythe Margolin, Professor George S. Morrison, Professor Nicholas J. Vigilante, Professor Arthur D. Dempsey, Associate Professor Kathleen A. Gurucharri, Associate Professor Grover C. Mathewson, Associate Professor Edward M. Reichbach, Associate Professor Edward M. Rembert, Associate Professor Zola J. Sullivan, Associate Professor Sharon W. Kossack, Assistant Professor Alicia Mendoza, Assistant Professor John Stinson, Jr., Assistant Professor

The Division offers programs at the bachelor's and master's levels. All programs satisfy teacher certification standards of the State of Florida.

# **Undergraduate Programs**

The Division of Childhood Education offers professional education programs designed to prepare its students to teach in Elementary and Middle Schools. Students desiring certification in Early Childhood Education can meet that requirement by completing the fifteen (15) quarter hour area of concentration requirement in Early Childhood Education. The courses in this area of concentration are: EEC 4203, EED 4301, and EEC 4611.

A student major in the Division, upon admission to the University, is assigned an advisor who will assist the student in planning a program of study. The program of study must comply with the degree requirements of the University, and will reflect the career goals of the student. Upon completion of work specified in the program of study, the student is awarded a Bachelor of Science Degree, and qualifies for Rank III certification in the state of Florida. The typical program of study is outlined below.

# Student Teaching and Field Experiences

All undergraduate courses offered by the Division require a minimum of three hours per week, per course, of observation and participation in designated schools.

The student teaching assignments are fulfilled in designated schools under the direction of classroom teachers and University faculty. This experience is on a full-time basis for a complete quarter. Permission for student teaching will be contingent upon successful completion of all other requirements specified in the program of study. In general, the student is expected to enroll for student teaching in the senior year. Student teaching is *not* offered in the summer quarter.

An application for student teaching may be obtained from the Coordinator for Student Teaching and Field Experiences of this Division. Specific deadlines for the submission of applications are posted each quarter at the Division office. Each student should obtain information from the advisor concerning the appropriate quarter for student teaching. Elementary Education, Grades 1–6 DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: An Associate of Arts degree or equivalent preparation in basic general education. If a student has not completed equivalents of the courses noted below, these courses must be completed at the University. MAE 4810 and MAE 4811 or their equivalents Art Skills

#### Music Skills Two science courses selected from biological

and/or physical sciences.

# **Childhood Education**

Foundations of Education (see General Program Designs).

#### UPPER DIVISION PROGRAM:

CITER DIVI.	STOTE TROOTE LAL.	
	Quarter	Hours
Physical Educa.	tion:	
EDF 3827	Schooling in America	5
EDG 3321	General Teaching	5
	Laboratory 1	
EDG 3322	General Teaching	5
	Laboratory II	
HLP 3013	Health and Physical	5
	Education for Children	
ARE 3313	Experiencing Art in	5
	The Elementary School	
MUE 3313	Experiencing Music in	5
	The Elementary School	
RED 4310	Communication Skills	5
	I	
LAE 4314	Communication Skills	5
	11	
RED 4311	Communication Skills	5
	111	
SSE 4312	Inquiry in Social	5
	Studies in The	
	Elementary School	
MAE 4312	Inquiry in	5
	Mathematics in The	
	Elementary School	
SCE 4310	Inquiry in Science in	5
	The Elementary School	
EDE 4943	Student Teaching	15
Area of Concer	-	15
5		

Each elementary Education major must complete a study program in an area of concentration consisting of at least 15 quarter hours to extend the student's background of information and understanding in a chosen area. A wide variety of choices exists; the student should consult the advisor.

### **Graduate Programs**

The Division of Childhood Education offers a master's program in Elementary Education. The program is designed to acquaint teachers with contemporary research, and programs. and to refine the teaching skills of persons employed in Elementary and Middle Schools. The completion of the master's degree in the Elementary program qualifies a person for Instruction/Curriculum leadership positions in Elementary Education.

The program leads to a degree of Master of Science in Education and qualifies a graduate for Rank II certification in Elementary and Middle Schools in the State of Florida,

Applicants for admission to programs in Elementary Education and Early Childhood Education must: (1) hold or qualify for a Florida Rank III certification or its equivalent in Elementary Education, and (2) satisfy requirements for scholastic aptitude as determined by the graduate admissions standards.

The Master of Science in Reading develops competencies in diagnosis and remediation; production and evaluation of reading materials; teaching of reading K to 12; and administration and supervision of remedial, corrective, development, and content area reading programs. The graduate is competent to take leadership in improving reading instruction and preventing reading failure in the schools.

Requirements for admission to the Master's in Reading Program are: (1) completion of an appropriate undergraduate teacher education program, (2) satisfactory scholastic aptitude, as determined by the graduate admission standards and, (3) three years of teaching experience after completion of the undergraduate degree.

A student must file a program of study with the advisor. The program of study must comply with the general master's degree requirements and reflect the career goals of the student. A typical program of study consists of 45 quarter hours of course work. Generally, ten quarter hours of graduate study from another accredited college or university may be transferred if applicable to the student's program.

### **Elementary Education**

DEGREE: Master of Science

90

	Quarte	r Hau	rs
General Profes	sional Education:		
	Curriculum Design for	4	
	Childhood Education		
EDF 5481	Analysis and	4	
	Application of		
	Educational Research		
One course	in sociology or		
psychology (co	onsult advisor)		
Area of Specia	lization:		
EDE 6225	Educational Programs	4	
	for Older Children		
RED 6155	Instruction in Reading	4	
(Other cour	ses to be selected from		
among Elemen	ntary course listings)	16	
Electives:			9
			45

# Early Childhood Education

DEGREE: Master of Science

EDE 6205	Curriculum Design for Childhood Education	4
EDF 5481	Analysis & Application of Educational Research	4
One course i	in sociology or	
psychology (co	onsult advisor)	
Area of Special		
EEC 6205	Education Programs	4
	for Younger Children	
RED 6155	Instruction in Reading	4
(Other cours	ses to be selected from	
Early Childho	od course listings)	16
Electives:	0,	9

# Reading

DEGREE: Master of Science

	Quarte	r nours
General Profes	sional Education:	
EDF 5481	Analysis and	4
	Application of	
	Educational Research	
EDE 6205	Curriculum Design for	4
	Childhood Education	
EDF 5430	Measurement and	4
	Evaluation in	
	Education	
Area of Specia	lization:	
(Courses to	be selected in	
consultation w	with the advisor)	29
Electives:		4

45

45

Quarter Hours

### **Course Descriptions**

#### Definition of Prefixes

9

45

Quarter Hours

ARE-Art Education; EDE-Education: Elementary; EEC-Education: Early Childhood; FLE-Foreign Language Education: HLP-Health, Leisure, and Physical Education; LAE -Language Arts and English Education; MAE -Mathematics Education: MUE-Music Education; RED-Reading Education; SCE-Sciепсе Education: SSE-Social Studies Education.

#### ARE 3313 Experiencing Art in The

Elementary School (5)(F,W,S,SS) Designed to provide the student with competencies necessary for the development and implementation of art experiences in the elementary curriculum. Prerequisites: EDF 3827, EDG 3321, EDG 3322. Art skills or equivalent.

(4)(S)

# **Childhood Education**

#### ARE 6304 Instruction in Art (Early Childhood)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

#### ARE 6315 Instruction in Art (Elementary) (4)(S)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

#### EDE 4925 Workshop in Elementary

. Education (1-5)(F,W,S,SS) An opportunity for students to continue to develop competency in a specified area of elementary education. No prerequisites.

EDE 4943 Student Teaching (15)(F,W,S) A field experience in an elementary school where the student serves as a teacher associate, demonstrating competencies acquired throughout the program. Prerequisites: ARE 3313, HLP 3013, LEA 4314, MUE 4312, MUE 3313, RED 4310, RED 4311, SCE 4310, SSE 4312.

#### EDE 5905 Individual Study in Elementary Education (1-5)(F,W,S,SS)

Individual investigation in the area of instruction, in elementary education. Permission of instructor required.

#### EDE 6205 Curriculum Design for Childhood Education (4)(F,SS)

A study of curriculum theory, construction and evaluation.

#### EDE 6225 Education Programs for Older Children (4)(W)

Programs developed for older children; curriculum trends based on contemporary psychological, educational and sociological research.

#### EDE 6925 Workshop in Elementary Education

An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields, in elementary education.

(3-5)

# EDE 6930 Seminar in Elementary Education (3)(W)

Advanced study of critical issues and problems in elementary education.

#### EDE 6948 Supervised Field Experience in Elementary Education (5-15)(W,S)

Field work in education institutions and organizations, in elementary education.

#### EEC 4203 Curriculum and Instruction in Early Childhood Education

(5)(W,S) Practical considerations of basic principles, experiments, research and trends related to early childhood education. Examination of materials and techniques of teaching and working with parents. Observation and participation are required. Senior class status required.

#### EEC 4301 Early Childhood Education

Programs (5)(F,S) Philosophy and theories of early childhood education; physical, emotional, social and mental development. Observation and participation are required. Senior class status required.

#### EEC 4611 Trends in Early Childhood Education (5

Education (5)(F,W) Understanding and dealing with critical issues; assessing the progress of contemporary programs locally and nationally; and recommending solutions for current problems.

#### EEC 4925 Workshop in Early Childhood Education

(1-5)(F,W,S,SS)

An opportunity for students to continue to develop competency in a specified area of early childhood education. No prerequisites.

#### EEC 5906 Individual Study in Early Childhood Education

5)(F,W,S,SS)

(1-

Individual investigation in the area of instruction, in preschool and early childhood education. Permission of instructor required.

#### EEC 6205 Education Programs for Younger Children (4)(W)

Programs developed for young children; curriculum trends based on contemporary psychological, educational and sociological research.

#### EEC 6926 Workshop in Early Childhood

Education (3-5) An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields, in preschool and early childhood education.

#### EEC 6932 Seminar in Early Childhood

Education (3)(W) Advanced study of critical issues and problems in preschool and early childhood education.

#### EEC 6948 Supervised Experience in Early

Childhood Education (5-15)(W,S) Field work in educational institutions and organizations, in preschool and early childhood education.

#### FLE 4151 Bilingual School Curriculum and Organization (5)(F)

Development of a theoretical understanding of the nature of bilingualism, a rationale for bilingual education, and a set of principles and skills for organizing bilingual/bicultural curriculum experiences in the elementary school. Prerequisites: EDF 3827, EDG 3321, EDG 3322.

#### FLE 4870 Teaching Spanish as a Second Language (5)(SS)

Development of instructional skills, techniques, and strategies for teaching Spanish to nonnative speakers of Spanish in the elementary school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, & Spanish proficiency.

#### FLE 4871 Teaching Spanish to Speakers of Spanish (5)(S)

Development of understandings and teaching skills needed in presenting integrated non-official language/language arts programs which would consider factors of languages and cultures in contrast. Prerequisites: EDF 3827, EDG 3321, EDG 3322, & Spanish proficiency.

#### HLP 3013 Health and Physical Education

for Children (5)(F,W,S,SS) Designed to provide competencies necessary for the development and implementation of programs concerning use of leisure time and maintenance of personal health and family life. Prerequisites: EDF 3827, EDG 3321, EDG 3322.

#### LAE 4314 Communication Skills II

#### (5)(F,W,S,SS)

Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using language arts activities to enhance communications skills. Prerequisite: RED 4310.

#### LAE 4851 Teaching English as a Second Language (5)(W)

Development of instructional skills, techniques, and strategies for teaching English as a second language in the elementary school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, and English proficiency.

LAE 5414 Children's Literature (5)(F) Designed to develop a critical analysis of the purposes, strategies for teaching, and evaluation of literature for children. Prerequisites: RED 4310, LAE 4314.

#### LAE 6305 Instruction in Language Arts

(Early Childhood) (4)(W) Refinement of skills related to program development, methods of teaching, selection of materials and review of research, in preschool and early childhood education.

#### LAE 6355 Instruction in Language Arts

(Elementary) (4)(W) Refinement of skills related to program development, methods of teaching, selection of materials and review of research, in elementary education.

# **Childhood Education**

#### MAE 4312 Inquiry in Mathematics in the Elementary School (5)(F,W,S,SS)

Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using mathematics as a mode of inquiry. Prerequisites: EDF 3827, EDG 3321, EDG 3322, MAE 4810 and MAE 4811, or equivalent.

#### MAE 5555 Diagnosis and Remediation in Mathematics (4)(F)

Strategies for studying symptoms, causes and consequences of difficulties experienced by children in elementary school mathematics. Includes supervised case study and theoretical models. Prerequisite: MAE 4312.

#### MAE 6305 Instruction in Mathematics (Early (4)(W.SS) Childhood)

Refinement of skills related to program development, methods of teaching, selection of materials and review of research, in preschool and early childhood education.

#### MAE 6318 Instruction in Mathematics (4)(W.SS) (Elementary)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

#### MUE 3313 Experiencing Music in the Elementary School

(5)(F,W.S.SS)

(4)(S)

Designed to provide the student with competencies necessary for the development and implementation of music experiences in the elementary curriculum. Prerequisites: EDF 3827. EDG 3321. EDG 3322, Music skills or MVS 3116.

#### MUE 6305 Instruction in Music (Early Childhood) (4)(S)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

#### MUE 6316 Instruction in Music (Elementary)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

#### RED 4310 Communication Skills I

(5)(F.W.S.SS) Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of reading. Prerequisites: EDF 3827, EDG 3321, EDG 3322,

# **RED 4311 Communication Skills II**

(5)(F.W.S.SS) Designed to implement and expand upon the teaching competencies developed in LAE 4314 and RED 4310, in a classroom management practicum. Prerequisites: LAE 4314 and RED 4310.

#### RED 4925 Workshop in Reading Education (1-5)(F.W.S.SS)

An opportunity for students to continue to develop competency in a specified area of reading education. No prerequisites.

#### RED 5447 Analysis and Production Reading Materials (5)(S)

Exploration, creation and evaluation of basic reading materials. commercial and non-commercial. Prerequisite: RED 4310. or equivalent.

#### RED 5911 Individual Study in Reading (1-5)(F,W,S,SS)Individual investigation in the area of instruc-

tion. Permission of instructor required.

### RED 6155 Instruction in Reading

(Elementary) (4)(F.SS)Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

#### RED 6247 Organization and Supervision of Reading Program (4)(F)

The organization and supervision of reading programs: problems of organization and supervision: continuity of school-wide programs. emphasis on leadership responsibilities. Prerequisites: EDF 5481. EDF 5430

#### RED 6305 Instruction in Reading (Early Childhood) (4)(F,SS)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research. in preschool and early childhood education.

#### RED 6337 Teaching Reading in the Secondary School

(4)(W) Development of skills necessary to identify reading problems in the classroom. Emphasis on how to use reading inventories and diagnostic tests as well as materials and techniques for teaching reading skills and assisting students to overcome reading deficiencies. Special attention to reading problems of students in the specific subject areas. Prerequisite: one course in reading.

#### RED 6315 Programs of Remediation in Reading (5)(W)

A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques. Prerequisites: RED 4310. RED 6546, or their equivalents.

#### RED 6546 Diagnosis of Reading Difficulty (5)(F)

Technique for analyzing and clarifying reading difficulties. Prerequisite: RED 4310, or its equivalent.

RED 6747 Research in Reading (4)(W)A course to study significant research in reading, and research methodology. Involves planning and research in reading. Permission of instructor required. Prerequisites: EDF 5430, EDF 5481.

RED 6805 Practicum in Reading (4)(S)An analysis of reading difficulties, through various teaching techniques and programs.

#### RED 6845 Clinical Procedures in Reading (4)(SS)

Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting.

RED 6925 Workshop in Reading (3-5)An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in reading education.

#### SCE 4310 Inquiry in Science in the

Elementary School (5)(F.W.S.SS) Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using science as a mode of inquiry. Prerequisites: EDF 3827. EDG 3321, EDG 3322.

#### SCE 6306 Instruction in Science (Early Childhood)

(4)(F)Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

#### SCE 6315 Instruction in Science

(4)(F)

(Elementary) Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

#### SSE 4312 Inquiry in Social Studies in the Elementary School (5)(F,W.S.SS)

Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children, using social studies as a mode of inquiry. Prerequisites: EDF 3827, EDG 3321, EDG 3322,

# **Psycho-Educational Services**

#### SSE 6305 Instruction in Social Learning (4)(S)(Early Childhood)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

#### SSE 6355 Instruction in Social Learning (Elementary)

(4)(S)Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

# **Division of Psycho-Educational Services**

Wendy J. Cheyney, Chairperson and Associate Professor

Carlos M. Alvarez, Associate Professor Marisal R. Gavilan, Associate Professor Daniel A. Kennedy, Associate Professor Philip J. Lazarus, Assistant Professor Luretha F. Lucky, Assistant Professor David E. Nathanson, Professor Howard Rosenberg, Assistant Professor Colleen A. Ryan, Associate Professor Donald C. Smith, Professor Stephen S. Strichart, Professor Jethro W. Toomer, Associate Professor Sandra Woods, Assistant Professor

Programs within the Division of Psycho-Educational Services are designed to train professionals to optimally meet the needs of individuals who experience cognitive, academic, and/or social-emotional difficulties that interfere with their progress in school and in the community. Specific competencies are delineated for classroom and resource room teachers of exceptional students, diagnostic and consultant teachers, school and community counselors, and school psychologists.

The various programs emphasize the blending of research and theory with practical applied experience, and consider the urban, multicultural nature of the University community, as well as more general national trends within specific fields. All programs involve extensive fieldwork with accompanying seminars. Independent study courses are available to allow students to pursue specialized interests and needs.

In addition to its regular programs, the Division of Psycho-Educational Services offers experiences through federally funded programs (Bureau of Education of the Handicapped) designed to provide specialized skills in vocational education for the handicapped and to develop competencies for personnel working with the severely/profoundly handicapped.

# **Undergraduate Programs**

The undergraduate special education program emphasizes the development of competencies in diagnosing learning and behavior problems, and prescribing and implementing an appropriate curriculum for exceptional children and youth. The trainee is prepared to conduct total classroom experiences for exceptional children, and, in addition, to reintegrate into the mainstream of education those students who are able to function full or part-time in the regular classroom. Programs have been planned to meet the requirements of Florida for Rank III certification in each of the following areas of specialization: Mental Retardation, Emotional Disturbances, and Specific Learning Disabilities. A student may elect a major in any one of the three areas.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: An Associate of Arts degree or equivalent preparation in basic general education. A student must complete the courses noted below or their equivalents, with a grade "C" or better: Foundations of Mathematics: MAE 4810 or MAE 4811

Foundations of Education: (See General Program Designs).

Art Skills

Music Skills

Two science courses selected from biological and/or physical sciences.

UPPER DIVISION PROGRAM:

OTTER DIVI		
	Quarter	· Hours
Professional Ed	lucotion:*	80
EDF 3827	Schooling in America	5
EDG 3321	General Teaching Lab	5
	1	
EDG 3322	General Teaching Lab	5
	11	
EEX 3010C	Introduction to	5
	Exceptional Children	
	and Youth	
SPA 3000	Introduction to	5
	Language	
	Development and	
	Communication	
	Disorders	
EEX 3221	Assessment of	5
	Exceptional Children	
	and Youth	
BSC 3023	Human Biology	5
or		
EEX 3202	Foundations of	
	Exceptionality	
RED 4310	Communication Skills,	5
	1	
EEX 4241	Academic Skills for	5



	Exceptional Children 1	
EEX 4242	Academic Skills for	5
	Exceptional Children	
	II	
One of the follo	owing 3 courses	
depending upon	n major:	
EMR 4360	Educational Planning	
	for the Mentally	
	Retarded	
or		
ELD 4322C	Educational Planning	5
	for Specific Learning	
	Disabilities	
or		
EED 4227C	Educational Planning	
	for Behavior Disorders	
EEX 4601	Behavioral Approaches	5
	to Classroom Learning	
	I	
EEX 4611	Behavioral Approaches	5
	to Classroom Learning	
	II	
	Student Teaching	15
	e courses in the under-	
	al education program re-	
	k in the community dur-	
ing daytime ho	ours. '	
Electives:		

10 90

# **Graduate Programs**

The Division of Psycho-Educational Services offers master's degree programs that prepare individuals to teach exceptional children and youth, that extend the skills of teachers of these children, and that train school and community counselors and school psychologists to serve in school and community settings. Emphasis is given to the development of assessment skills, prescriptive programming skills, behavior management techniques, and consultant and group leadership skills.

Program applicants are required to file an application with 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. Can-

# **Psycho-Educational Services**

didates are admitted by action of the Division's Graduate Admissions Committee. Criteria for program acceptance include GRE scores, undergraduate grade point average during the junior and senior years, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. A combined Verbal-Ouantitative GRE score of 1000 and/or GPA of "B" or better during the undergraduate junior and senior years is required for a candidate to be admitted via regular procedures. Where these criteria are not met, candidates may be admitted by special action of the Division's Graduate Admissions Committee and the Dean's Office.

Programs of study are offered in Diagnostic Teaching (Mental Retardation, Behavior Disorders, Specific Learning Disabilities), Counselor Education (School Counseling and Community Counseling) and School Psychology. 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. Planning work has begun at this time to develop Educational Specialist programs in School and Community Counseling and a Doctoral program in School Psychology on a cooperative basis with other State Universities.

Individuals who do not fulfill one of these requirements can become eligible for admission if they complete all coursework required for a Rank III Certificate or equivalent in any area of education, except for the internship. If admitted to the program in Diagnostic Teaching, after completing these courses, such individuals would fulfill an internship in a setting related to their program designation in Diagnostic Teaching, at a point in their program at which their advisor felt they had completed sufficient coursework and experiences in the education of exceptional students.

# **Diagnostic Teaching**

The major competencies of the diagnostic teacher are an extension of those developed by the student in the undergraduate special education curriculum: a) assessment of learning styles through observation and on-going monitoring techniques; b) application of behavioral approaches to the building, monitoring, and remediation of classroom behavior; c) communication of information concerning children to others within the school, and to parents; d) behavioral change monitoring; e) curriculum planning and innovations; f) teacher and parent consultation; g) supervision of special education units.

The program of study is 45-60 quarter

hours, depending upon the student's background. Areas of specialization include: Mental Retardation, Behavior Disorders, and Specific Learning Disabilities.

The program leads to Rank II certification in the state of Florida in either Mental Retardation, Emotional Disturbance, or Specific Learning Disabilities.

LOCATION: Tamiami and North Miami Campuses.

DEGREE: Master of Science

# In Field Majors

The following program of study is for the student who holds an undergraduate degree in Special Education from Florida International University. A student with an undergraduate major in Special Education from another institution must plan a program with an academic advisor to insure having the entry skills for this program.

	Quarter	Hours
General Profess	ional Education:	4
EDF 5481	Analysis & Application	4
	of Educational	
	Research	
Area of Special	ization:	28 - 33
*NOTE: One to	o four of the following	
courses depend	ing on the student's	
preparation:		4-16
EEX 6612	Diagnostic Teaching:	4
	Systems & Behavioral	
	Models	
EEX 6227	Diagnostic Teaching:	4
	Educational	
	Assessment	
EEX 6106	Diagnostic Teaching:	4
	Acquisition of Reading	
	& Language Skills	
EEX 6846	Diagnostic Teaching:	4
	Advanced Practicum	
EEX 6736	Diagnostic Teaching:	4
	Consultation &	
	Leadership Skills	
	of the following three	
*	ling upon area of certifi-	
cation pursued		
EMR 6852	5	
	Practice: Mental	
	Retardation	
or		
ELD 6323	Advanced Theory and	4
	Practice: Specific	
	Learning Disabilities	

EED 6226 Advanced Theory and Practice: Behavior Disorders

or

EEX 6863	Supervised Field	5	
	Experience in Special		
	Education		
EEX 6001	Professional Problems	2	
	-Special Ed		
EEX 6211	Assessment of	5	
	Behavior 1		
EGC 6616	Program Evaluation in	4	
	Pupil Personnel		
	Services		
Electives:			7-13

# **Out of Field Majors**

A student eligible for or holding a Rank III Certificate in other areas of education should consult with an academic advisor for evaluation of entry competencies to the program. If entry competencies cannot be demonstrated either on the basis of course equivalents, work experience, or actual performance tests, the student will be asked to complete one or more of the following courses in addition to those listed above: Ourseland II.

	Quarter	r Hours
EMR 4360	Educational Planning for the Mentally	
	Retarded	
or	·	
ELD 4322C	Educational Planning	5
	for Specific Learning	
	Disabilities	
or		
EED 4227C	Educational Planning	
	for Behavior Disorders	
EEX 6051	Exceptional Children	4
	and Youth	
EEX 6863	Supervised Field	5-10
	Experience in Special	
	Education	
EGC 6707	Behavior Counseling	5
	and Consultation I	
NOTE: Two	to five of the following	
courses deper	iding on the student's	
preparation, 1	EEX 6612, EEX 6227,	
EEX 6106, EE	X 6846, EEC 67368-20	
~ .		

### **Counselor Education**

# Severely/Profoundly Handicapped

The Division of Psycho-Educational Services is beginning a three year, multi-disciplinary program designed to train paraprofessionals and volunteers to work with the severely/profoundly handicapped. The program is funded by a Bureau of Education for the Handicapped

# **Psycho-Educational Services**

grant. Contact: Division of Psycho-Educational Services.

## Institute in the Creative and Performing Arts for the Exceptional

The Institute in the Creative and Performing Arts for the Exceptional is being planned to provide significant arts experiences for exceptional children and adults working with community arts organizations. Research in the arts will be an integral part of the institute's activities. Contact: Dr. David Nathanson, Division of Psycho-Educational Services.

The program in counselor education requires 90 quarter hours of credit. The first 45 hours are largely generic in nature and lead to the development of competencies in individual and group counseling and other social and behavioral change techniques: consultation; program organization and evaluation; and coordination of school and community-centered interventions. Training patterns are more differentiated during the last 45 hours and lead to specialization in one of the following areas: a) counseling in the elementary schools; b) counseling at the secondary school level; c) counseling in higher education; d) vocational counseling; or e) community counseling.

The school counseling program qualifies the student for certification in Guidance in the State of Florida and meets the standards for preparation of counselors recommended by the American Personnel and Guidance Association.

DEGREE: Master of Science

- Sortes inte	Ouarter	Hour
Convert Durford	~	nours
	sional Education:*	4
EDF 5481	Analysis and	4
	Application of	
	Educational Research	
Area of Special	lization:	
EGC 5405	Introduction to	5
	Counseling	
EGC 5305	Educational and	5
	Vocational Guidance	
EGC 6707	Behavioral Counseling	5
	and Consultation 1	
EGC 6708	Behavioral Counseling	5
	and Consultation 11	
EGC 6725	Human Interaction	5
	Laboratory	
EGC 6726	Human Interaction II	5
EGC	Human Interaction 111	
6709**		5
EGC 6616	Program Evaluation in	4
	Pupil Personnel	
	Services	
,	Dervices	

	•		
EGC 6203	Measurement and	4	
	Appraisal in		
	Counseling		
EGC 6822	U	5	
	Counseling and		
	Consultation		
EGC 6605	Professional Problems	4	
	-Counselor Ed.		
EGC 6676	Supervised Field	15	
	Experience in		
	Counselor Education		
*The student	should consult with the		
advisor to esta	ablish whether additional		
requirements	must be met in general		
professional e	education (Fds. of Ed.;		
Gen. Methods	s).		
**Required o	nly in community coun-		
seling.			
Electives:			17-22
			90

The student should consult with the academic advisor for guidance in selecting electives appropriate for specialization in school, vocational, or community counseling.

# School Psychology

The program in school psychology requires 90 quarter hours of credit and six quarters of graduate study. In general, the competencies to be demonstrated by the student completing this program are derived from the following: behavioral/educational assessment and planning; counseling and child-centered consultation with teachers, parents and agency representatives; staffing, liaison, referral and case management; program development and evaluation; inservice education; administrative consultation; and community development.

-	•		
DEGREE: Ma	aster of Science		
	Quarter	r Ho	urs
General Profes	sional Education:•		4
EDF 5481	Analysis and	4	
	Application of		
	Educational Research		
*The student	should consult with the		
academic advi	isor to establish whether		
additional req	uirements must be met in		
general profes	sional education		
Area of Specia	lization:	•	59-7
EGC 5405	Introduction to	5	
	Counseling		
EGC 6707	Behavioral Counseling	5	
	and Consultation I		
EGC 6708	Behavioral Counseling	5	
	and Consultation II		
EGC 6725	Human Interaction 1	5	
EGC 6726	Human Interaction II	5	
EEX 6211	Assessment of	5	
	Behavior I		

EGC 6255	Assessment of	5
	Behavior II	
EGC 6248	Advanced Practica in	5
	Psycho-Educational	
	Assessment and	
	Consultation	
SPS 6805	Professional Problems	2
	in School Psychology I	
SPS 6806	Professional Problems	2
	in School Psychology	
	11	
EGC 6616	Program Evaluation in	4
	Pupil Personnel	
	Services	
EGC 6678	Supervised Field	15
	Experience-School	
	Psychology	
One to three	of the following courses	

depending upon the student's background:

EEX 6227, EEX 6106, EEX 6846 4–12 Electives:

A student with an undergraduate major in education is encouraged to select electives in the social and behavioral sciences. Other students must meet requirements in general professional education (FDS. of Ed.; Gen. Methods).

# **Course Descriptions**

#### **Definition of Prefixes**

EED-Education: Emotional Disorders; EEX-Education: Exceptional Child, Core Competencies; EGC-Education: Guidance and Counseling; ELD-Education: Specific Learning Disabilities; EMR-Education: Mental Retardation; SPA-Speech Pathology and Audiology; SPS-School Psychology.

#### SPECIAL EDUCATION

#### EED 4227C Educational Planning for

Behavior Disorders (5)(W,SS) Concepts and skills with various models of curriculum, instruction, and classroom design for individuals with social and emotional adjustment problems. Laboratory experiences required. Prerequisites: EEX 4241, EEX 4601.

#### EED 6226 Advanced Theory and Practice:

Behavior Disorders (4)(S,SS) Major theories in the area of behavior disorders, and skills in the application of these theories to education.

#### EED 6937 Seminars in Special Education (4, repeatable to 12)(F,W,S,SS)

A. Topics in Mental Retardation B. Topics in Specific Learning Disabilities C. Topics in Behavior Disorders.

# **Psycho-Educational Services**

#### EEX 3010C Introduction to Exceptional Children and Youth (5)(F.W,SS)

Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experiences required.

#### EEX 3202 Foundations of Exceptionality (5)(W,SS)

Basic concepts in relation to the biological, genetic, psychological and social foundations of handicapping conditions, as they apply to classroom behavior.

### EEX 3221 Assessment of Exceptional

Children and Youth (5)(SS) Competencies in assessment of the basic modalities of learning (visual, auditory, haptic and perceptual motor processes), and the language areas of reading, writing, spelling and arithmetic.

EEX 4241 Academic Skills for Exceptional Children, 1 (5)(F.S) Competencies in the selection. adaptation and preparation of appropriate instructional materials in arithmetic, art. music. science and social studies, including skill with audio-visual equipment and other multi-media approaches. Prerequisites. EEC 3010C, SPA 3000, EEX 3221, RED 4310.

#### EEX 4242 Academic Skills for Exceptional Children, II (5)(W,SS)

Skills in a systems approach to individualized instruction in the classroom, including design and implementation of teaching strategies in all academic skill areas. Field experience required. Prerequisites: EEX 4241, EEX 4601.

### EEX 4601 Behavioral Approaches to

Classroom Learning (5)(F.S) Concepts and skills for building and modifying social and academic behaviors. Skills in precision teaching, behavior modification, and the functional analysis of behavior.

#### EEX 4611 Behavioral Approaches to

Classroom Learning II (5)(W,SS) Concepts and skills necessary for the management and maintenance of classroom behavior, including token economies and parent/teacher consultation. Field experience required. Prerequisite: EEX 4601.

EEX 4861 Student Teaching (15)(F,S) A field experience in a program for exceptional children, demonstrating competencies learned throughout the program.

EEX 4905 Individual Study in Special Education (1-10)(F,W,S,SS) Concepts or competencies contracted for between an undergraduate student and an instructor in accordance with the student's individual needs.

#### EEX 6051 Exceptional Children and Youth (4)(F.SS)

Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experience and graduate project required.

EEX 6106 Diagnostic Teaching: Acquisition of Language and Reading Skills (4)(W,SS)

Concepts in acquisition and development of language and reading skills.

EEX 6227 Diagnostic Teaching: Educational Assessment (4)(F,W,SS) Skill in application of assessment theory to classroom diagnosis and to the development of instructional objectives.

EEX 6612 Diagnostic Teaching: Systems and Behavioral Models (4)(F,SS) Skills in the application of diagnostic data to various instructional strategies and behavioral models.

#### EEX 6736 Diagnostic Teaching: Consultation and Leadership Skills (4)(S,SS)

Skills in parent consultation and education.

#### EEX 6846 Diagnostic Teaching: Advanced Practicum (4)(S,SS)

Application of diagnostic teaching models to individualized, remedial and compensatory instructional programs.

#### EEX 6863 Supervised Field Experience in Special Education

#### (5-15)(F,W,S,SS)

Demonstration of the full range of competencies in diagnostic teaching learned throughout the program. Internship placements include a variety of field settings.

#### EEX 6906 Individual Study in Special

Education (1-10)(F,W,S,SS) Concepts or competencies contracted for by graduate students with an instructor.

#### EEX 6927 Workshop in Special Education (1-10)(VAR)

Selected competencies in special education, developed in short-term, intensive workshops.

#### ELD 4322C Educational Planning for Specific Learning Disabilities (5)(W,SS)

Concepts and skills with various models of curriculum, instruction, and classroom designs for individuals with specific learning disabilities. Laboratory experiences required. Prerequisites: EEX 4241, EEX 4601.

#### ELD 6323 Advanced Theory and Practice: Specific Learning Disabilities

(4)(S,SS)

Major concepts in the area of specific learning disability, and skills in the application of these concepts to education.

EMR 4360 Educational Planning for the

Mentally Retarded (5)(W,SS) Concepts and skills used in planning educational, prevocational and vocational programs for the mentally retarded. Laboratory experiences required. Prerequisites: EEX 4241, EEX 4601.

### EMR 6852 Advanced Theory and Practice:

Mental Retardation (4)(S,SS) Major concepts in the area of mental retardation, and skills in the application of these concepts to education.

#### SPA 3000 Introduction to Language Development and Communication

Disorders (5)(F,W,SS)

Skills in assessing and classroom programming for language development and for various speech and language disorders of children.

#### PUPIL PERSONNEL SERVICES

#### EEX 6001 Professional Problems-Special Ed. (2)(F)

Orientation to profession of special education.

#### EEX 6211 Assessment of Behavior I (5)(F,W,SS)

Basic concepts in assessment theory. Competencies in using a variety of standardized tests in assessing and writing educational prescriptions for children with disorders in visual, auditory and haptic processing, in language or integrative systems.

### EGC 5305 Educational and Vocational

Guidance (5)(W,SS) Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development.

#### EGC 5405 Introduction to Counseling (5)(F,W,SS)

Major theoretical concepts in counseling, Competencies in relationship-building, interviewing, role-playing, simulation and micro-counseling.

#### EGC 6203 Measurement and Appraisal in Counseling (4)(S,SS)

Concepts and skills related to the use of tests and other appraisal procedures in counseling. Particular emphasis on career and vocational

# Subject Specializations

choice processes. Laboratory experiences included.

#### EGC 6248 Advanced Practica: Psycho-Educational Assessment and Consultation (

Consultation (5)(S) Advanced competencies in psycho-educational assessment.

EGC 6255 Assessment of Behavior II (5)(W) Concepts and skills in the assessment of intelligence, with a particular emphasis on the problems of assessing the mentally retarded, the gifted, and members of minority groups. Prerequisite: EEX 6211.

#### EGC 6605 Professional Problems-Counselor Education (4)(W,S)

Competencies in regard to the development of major role and service models and the application of budgeting systems, legal and ethical standards in a psycho-educational setting.

#### EGC 6616 Program Evaluation in Pupil Personnel Services (4)(F,S)

Evaluation skills in the student's area of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

#### EGC 6676 Supervised Field Experience in Counselor Education (15)

Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings.

#### EGC 6678 Supervised Field Experience in School Psychology (15)

Demonstration of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings.

#### EGC 6707 Behavioral Counseling and Consultation (5)(F,W,SS)

Concepts and skills in using behavior modification: functional analysis of behavior, precision teaching, token economies, contingency contracting, parent and/or teacher consultation.

#### EGC 6708 Behavioral Counseling and

Consultation II (5)(W,S) Extended laboratory experiences stressing the development of skills in behavioral approaches to individual and group counseling, consultation, parent education, and in-service training. Prerequisite: EGC 6707, or equivalent.

#### EGC 6709 Human Interaction III:

Organizational Consultation (5)(S) Theoretical concepts and skills in organizational development and change. Competencies in systems diagnosis and assessment, consultation, agenda setting, team building, decisionmaking and feedback. Prerequisite: EGC 6726.

### EGC 6725 Human Interaction I: Group

**Process Laboratory** (5)(F,W) Concepts, research and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

EGC 6726 Human Interaction II: Analysis of Group Participation (5)(W,S) Participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority and membership. Prerequisite: EGC 6725.

EGC 6822 Advanced Practica in Counseling

and Consultation (5)(W) Advanced competencies in counseling and consultation.

#### EGC 6905 Individual Study in Pupil Personnel Services

(1-10)(F,W,S,SS)

Competencies contracted for between a student and an instructor in accordance with the student's individual needs.

#### EGC 6925 Workshop in Psycho-Educational

Selected competencies in counselor education or school psychology, developed in short-term, intensive workshops.

EGC 6936 Seminars in Pupil Personnel Services (4, repeatable to 12)(F,W,S,SS)

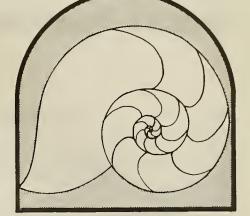
Special topics in relation to counseling or school psychology.

SPS 6805 Professional Problems in School Psychology 1 (2)

Competencies in regard to the development, role and function of school psychologists. General orientation and legal issues included.

#### SPS 6806 Professional Problems in School Psychology 11 (2

Competencies in effective role development in a multi-cultural, multi-ethnic environment. Effective consultation practices, ethical standards, and current issues included.



# Division of Subject Specializations

Judy A. Blucker, Associate Professor and Chairperson, Physical Education

- Ida F. Chadwick, Associate Professor, Physical Education
- Jack Llewellyn, Associate Professor, Physical Education
- Richard Lopez, Assistant Professor, Physical Education
- Luis A. Martinez, Associate Professor, Science Education
- C. Edwin McClintock, Associate Professor, Mathematics Education
- George B. Pearson, Professor, Physical Education
- Clement Pennington, Assistant Professor, Art Education
- Robert Shostak, Professor, English Education
- John J. Staczek, Associate Professor, Modern Language Education/TESOL
- Robert F. Testa, Associate Professor, Music Education
- Jan L. Tucker, Professor, Social Studies Education

Michael J. Wagner, Associate Professor, Music Education

The Division offers bachelor's degree programs for the preparation of teachers in secondary subject areas and teachers of art, music, and physical education in grades 1-12. It also offers master's degree programs designed for the continued professional development of teachers.

Unlike traditional programs in secondary education, which emphasize course completion as a sufficient condition for awarding a degree, the programs of the Division emphasize demonstrated performance in specific teaching skills as the main criterion for awarding a degree.

# **Undergraduate Programs**

A student enrolled in the Division may pursue the following programs:

General: Grades 1-12 Art Education Music Education Physical Education EDU 17

# **Subject Specializations**

Secondary Education: Grades 7–12 Biology Education Mathemat

Chemistry Education English Education History Education Mathematics Education Modern Language Education Physics Education Social Studies Education

Health Education

Each student major in the Division, after being admitted to the University, is assigned an advisor in the teaching field who will assist the student in constructing a program of study. The program of study must comply with the University's degree requirements and will reflect the career goals of the student. Upon completion of the work specified in the program of study, the student is awarded a *Bachelor of Science* degree with a major in a specific subject matter area. and qualifies for the appropriate Rank III certification in the State of Florida.

All courses taken in the College of Arts and Sciences which are to be applied to an Education major must be evaluated using the letter grade system.

Students wishing to obtain a second major or second degree in the College of Arts and Sciences should consult an advisor in the field of study they wish to pursue.

# **Student Teaching and Laboratory Experiences**

Most courses offered by this Division require observation and participation in selected schools. The course descriptions will identify those courses which require such in-school experiences.

The student teaching assignments are fulfilled in designated field centers under the direction of classroom teachers and University faculty. This experience is on a full-time basis for a complete quarter. Permission to student teach will be contingent upon completion of all other requirements specified in the program of study. Students may be assigned to student teach during the Winter or Spring Quarter of the senior year. There is no student teaching in the Summer Quarter.

Application for student teaching is the responsibility of the student. Necessary forms may be obtained from the Office of Student Personnel Services in the School of Education, and should be returned to that office early in the quarter following completion of 135 quarter hours of credit and no later than two quarters prior to the time of registration for student teaching.

# Art Education: Grades 1–12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: 1) An Associate of Arts degree in art, or (a) Art History Survey (6 semester hours) and (b) Basic and Figure Drawing (6 semester hours) and (c) Two and Three Dimensional Design (6 semester hours); and 2) Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

UPPER DIVISION PROGRAM:

UPPER DIVIS	ION PROGRAM:		
	Quarte	r Ho	ours
Subject Matter S			45
ARH 4470	Contemporary Art,		
	Art History Elective	10	
ART 3510C	Painting	5	
ART 3702C	Sculpture	5	
ART 3150C	Jewelry and Metals	5	
ART 3401C	Printmaking	5	
ART 3601C	Photography	5 5 5	
ART 3111C	Ceramics	5	
Art Elective		5	
Professional Edu	ication:		45
EDF 3827	Schooling in America	5	
EDG 3321	General Teaching		
	Laboratory I	5	
EDG 3322	General Teaching		
	Laboratory II	5	
Reading Require	ement:		
RED 4335	Special Teaching		
	Laboratory: Reading.	5	
Special Methods	and Student Teaching:	A	stu-
dent must com	plete the 10 quarter h	ours	of of
	rses, and all core course		
enrolling in 400	0 level special methods	cour	ses.
ARE 4316 and	ARE 4341 must be take	n in	se-
quence before A			30
ARE 4316	Special Teaching		
	Laboratory: Art in		
	Grades K-6	5	
(minimum prei	equisite or corequisite		30
	n subject matter special		
ARE 4341	Special Teaching		011)
	Laboratory: Art in		
	Grades 7-12		
(minimum prer	equisite or corequisite		
of 30 hours rea	uired in subject matter		
specialization)	.,	5	
ARE 4940	Student Teaching in		
	Art	15	
			90

### Music Education: Grades 1–12

#### DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: An Associate of Arts degree in Music or the following recommended courses: applied, 12 quarter hours; history, 6 quarter hours; organizations, 6 quarter hours; techniques secondary instruments, 6 quarter hours; theory, 18 quarter hours; sight-singing, 6 quarter hours; Foundations in Education, 10 quarter hours. If Foundations in Education requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

#### UPPER DIVISION PROGRAM

UPPER DIVISI	ON PROGRAM:		
	Quarte	r Ha	ours
Subject Matter S	pecialization:		41
Applied Music (I	Five quarters; 1/2 hour		
lessons on major	instrument each		
quarter)		5	
Basic Conduct	ing	2	
Beginning Inst	rumental or Choral	2	
Form and Ana	alysis	2 2 5 5 2 5	
Counterpoint		5	
Guitar		2	
Twentieth Cer	tury Music History	5	
Orchestration	or Choral Techniques	5	
Organizations	(5 quarters)	10	
Professional Edu			45
EDF 3827	Schooling in America	5	
EDG 3321	General Teaching		
	Laboratory I	5	
EDG 3322	General Teaching		
	Laboratory II	5	
Reading Require	ment:		
RED 4335	Special Teaching		
	Laboratory: Reading	5	
Special Methods	and Student Teaching:		
A student must o	complete the 10 quarter		
hours of foundation	ations courses and all		
core courses be	fore enrolling in 4000		
	thods courses. A stu-		
dent must enrol	ll for MUE 4341 and		
4940 in consecut			
MUE 3332	Special Teaching		
	Laboratory 1: Music	5	
MUE 4341	Special Teaching		
	Laboratory II: Music		
	(K-12)		
	equisite or corequisite		
	uired in subject matter		
specialization)		5	
MUE 4940	Student Teaching		
	(Elementary &		
	Secondary)	15	

# Subject Specializations

#### Electives:

Sufficient number of hours to accrue to a total of 90 quarter hours at Florida International University.

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### **Biology Education:** Grades 7–12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of biology; 12 quarter hours (8 semester hours) of general chemistry; 12 quarter hours (8 semester hours) of general physics; mathematics through analytical geometry; and Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

#### UPPER DIVISION PROGRAM:

	Quarter Hours
Subject Matter Specialization:	- 48
Genetics	5
Biochemistry	7
Molecular Biology	7
Developmental Biology	5
Electives in Biology*	10
Organic Chemistry	7
Quantitative Analysis	7
Professional Education:	40
EDF 3827 Schooling in A	
EDG 3321 General Teach	0
Laboratory I	5
EDG 3322 General Teach	0
Laboratory II	5
Reading Requirement:	
RED 4335 Special Teachin	
Laboratory: Re	eading. 5
Special Methods and Student Te	-
A student must complete ten (1	
ter hours of foundations courses	
core courses before enrolling	
level special methods courses.	
dent must enroll for SCE 43	
LAE 4942 in consecutive quarter	
SCE 4330 Special Teachi	ng
Laboratory:	
Science (minimum prerequisite quisite of 30 hours required in	
matter specialization)	5
SCE 4944 Student Teach	
Electives:	111g 15
Sufficient number of hours to a	
a total of 90 guarter hours at	
International University.	1 Ionua
enterory.	

\*BSC 3023, 3033; 3253; OCB 3010; BOT 3823; PCB 3703; BSC 3913 and 4914 are not applicable to this requirement.

### **Chemistry Education:** Grades 7–12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of general chemistry; 12 quarter hours (8 semester hours) of general physics; mathematics through Calculus I; and Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

Recommended Courses: Organic Chemistry UPPER DIVISION PROGRAM:

UTTER DIVISIO	IN I KOOKAW.		
	Qua	rter H	lours
Subject Matter Spe			38-4
Organic Chemist	try I and II	10	
Organic Chemist		4	
Quantitative Ana	alysis and		
Laboratories		7	
Physical Chemis	try and		
Laboratory		7	
Electives in Cher	mistry	5 - 7	
Calculus II		5	
Professional Educa	tion:		40
	Schooling in		
	America	5	
EDG 3321	General Teaching		
	Laboratory 1	5	
EEG 3322	General Teaching		
	Laboratory II	5	
Reading Requireme			
	Special Teaching		
	Laboratory:		
	Reading.	5	
Special Methods an	id Student		
Teaching:			
A student must			
quarter hours of fo			
and all core course			
	special methods		
courses. A studen			
	942 in consecutive		
quarters.	0 1 1 70 1 1		
	Special Teaching		
	Laboratory:		
	n prerequisite or		
	hours required in	~	
subject matter spe SCE 4944		5	
SCE 4944	Student Teaching	15	

#### Electives: Sufficient number of hours to accrue to a total of 90 quarter hours at Flor-

10 - 12

ida International University.

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### **English Education:** Grades 7-12

#### DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: two courses in freshman English; two courses beyond freshman English in literature; one course in oral interpretation; one course in advanced composition; and Foundations of Education (10 quarter hours). If the required courses beyond freshman composition are not completed they will be included in the student's program in addition to regular upper division requirements. If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

#### UPPER DIVISION PROGRAM:

	Qu	uarter Hour	s
Subject Matter Sp	pecialization:	4	5
ENG 3500	Introductory		
	Linguistics	5	
ENG 4555	Modern		
	Grammars		
	(prerequisite		
	ENG 3500)	5	
LAE 4464	Adolescent		
	Literature	5	
Literary Critici	ism	5	
Shakespeare		5	
Communicatio	ns electives	10	
Literature elect	tives	10	
Professional Educ	ation:	4	0
EDF 3827	Schooling in		
	America	5	
EDG 3321	General Teachin	g	
	Laboratory 1	5	
EDG 3322	General Teachin	g	
	Laboratory II	5	
Reading Requirer	nent:		
RED 4335	Special Teaching	5	
	Laboratory:		
	Reading.	5	
A student must	complete ten (1	0)	
quarter hours of	foundations cours	es	
and all core cour	rses before enrolling	ng	
in 4000 level	special metho	ds	
courses. A stude	ent must enroll f	or	
LAE 4335 and L	AE 4942 in consec	u-	
tive quarters.			
LAE 4335	Special Teaching	3	
	Laboratory:		
		(Continued	)

# Subject Specializations

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English (minimum prerequisite or corequisite of 30 hours required in subject matter specialization)

LAE 4942 Student Teaching 15 Electives:

Sufficient number of hours to accrue to a total of 90 quarter hours at Florida International University.

**Health Education:** Grades 7-12

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (10 quarter hours). Completion of lower division Health Education program, Personal Health.

UPPER DIVISION PROGRAM:

CITER DIVI	SION I ROOMANI.		
	Quarte	r Ho	urs
	Specialization:		40
HUN 3122	Nutrition and Culture	5	
HSC 3300	Health & Social		
	Service Delivery		
	Systems	5	
APB 3253	Biological Basis of		
	Human Sexuality		
or	2		
SOP 3772	Psychology of Sexual		
	Behavior	5	
MCB 3013	General Microbiology	2	
or	General Microbiology		
MCB 3000	Introduction		
eb 5000	Microbiology	5	
SOP 3932	Psychology of Drug	2	
501 5752	Abuse	5	
700 37310	C Human Anatomy	5	
0r	2 Human Anatomy		
PCB 3700	Physiology	5	
HES 4001	Community Health	5	
HES 4160	Critical Issues in	J	
nES 4100		5	
DuchanianalI	Health Education	С	40
Professional E		~	40
EDF 3827	Schooling in America	5	
EDG 3321	Teaching Lab I	5	
EDG 3322	General Teaching Lab		
	11	5	
RED 4335	Special Teaching Lab:		
	Reading	5	
HES 43031			
	Health Education	5	
HES 4940	Student Teaching	15	
Electives: (with	th prior approval of		
advisor)	A 11		10
,			
			0.0

# **History Education:** Grades 7-12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: 1) Two courses in history. 2) One course in the social sciences beyond freshman social science core (select from anthropology, economics, geography, political science or sociology). 3) Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program. LIDDED DUUGION DDOOD IN

UPPER DIVISION PROGR.	AM:	
	Quarter Ho	urs
Subject Matter Specialization:		40
I. History 3001 Introductio	n to	
History	5	
2. U.S. History at 3000, 400	0 or	
5000	10	
3. History other than U.S.	20	
4. U.S. Government (POS 3	3044) 5	
Professional Education:		15.
EDF 3827 Schooling in A	merica 5	
EDG 3321 General Teach		
Laboratory I	5	
EDG 3322 General Teach	ing	
Laboratory II	5	
Reading Requirement:		5
RED 4335 Special Teachi	ng	
Laboratory: R		
Special Methods and Student T		20
A student must complete 10		
hours of foundations courses		
core courses before enrolling		
level methods courses. A stud		
enroll for SSE 4384C and SSI		
consecutive quarters, in eithe	er a fall-	
winter or a winter-spring qu		
quence.		
SSE 4384C Special Teachi	ing	
Laboratory: S		
Studies	5	
SSE 4942 Student Teach		
Electives:		10
Sufficient number of hours to	accrue	
to a total of 90 guarter hours		
Florida International Univers		
It is recommended that th		
consider a double maior wh		

consider a double major which combines a major in history education with a major in social studies, international relations, political science, economics, anthropology, sociology or history. The student must consult with the history education advisor about these requirements.

# Mathematics Education: Grades 7-12

#### DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Trigonometry. Analytic geometry. Calculus (at least one term). Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

#### UPPER DIVISION PROGRAM:

urs 35

40

offer problem.	
Quarter	Hou
Subject Matter Specialization:	
35 quarter hours beyond calculus, in-	
cluding at least 10 quarter hours in	
probability and statistics, and 5 quarter	
hours in computer science and geome-	
try.	
Professional Education:	
EDF 3827 Schooling in America	5
EDG 3321 General Teaching	
Laboratory I	5
EDG 3322 General Teaching	
Laboratory II	5
Reading Requirement:	
RED 4335 Special Teaching	
Laboratory: Reading	5
Special Methods and Student Teaching:	
A student must complete ten ((10)	
quarter bours of foundations courses	
and all core courses before enrolling in	
4000 level special methods courses. A	
student must enroll for MAE 4333C	
and MAE 4942 in consecutive quarters.	
MAE 4333C Special Teaching	
Laboratory:	
Mathematics (minimum prerequisite or	
corequisite of 30 hours required in sub-	
ject matter specialization)	5
MAE 4942 Student Teaching	15
Electives:	
Sufficient number of hours to accrue to	
a total of 90 quarter hours at Florida	
International University.	

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15

### Modern Language Education: Grades 7-12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION: Four semesters of elementary and intermediate modern language (may be waived, at the discretion of the advisor, for native speakers of the

# **Subject Specializations**

target language); and Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program.

program.		
UPPER DIVISION PROGRAM:		
Quarter	· Ho	urs
Subject Matter Specialization:		45
Phonetics or Contrastive		
Phonology	5	
Intro. Linguistics or Linguistics in		
Target Language	5	
Civilization	5	
Syntax/Composition	5	
Literature in Target Lanauage	10	
MOL Electives	15	
Professional Education:		40
EDF 3827 Schooling in America	5	
EDG 3321 General Teaching		
Laboratory 1	5	
EDG 3322 General Teaching		
Laboratory II	5	
Reading Requirement:		
RED 4335 Special Teaching		
Laboratory: Reading	5	
Special Methods and Student Teaching:		
A student must complete the 10 quarter		
hours of foundations courses and all		
core courses before enrolling in 4000		
level special methods courses. A stu-		
dent must enroll for FLE 4375 and		
FLE 4942 in consecutive quarters.		
FLE 4375 Special Teaching		
Laboratory: Modern		
Languages		
(minimum prerequisite or corequisite		
of 20 hours required in subject matter		
specialization).	5	
FLE 4942 Student Teaching	15	
Electives:		4
Sufficient number of hours to accrue to		
a total of 90 quarter hours at Florida		
International University.		
		9

# Physical Education: Grades 1–12

#### DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours). Completion of lower division Physical Education program, Personal Health, skill courses in dance, gymnastics, and aquatics, plus two or more activities from both individual sports and team sports. A basic mathematics course and additional physical activity courses are highly recommended.

UPPER DIVIS	SION	PROGRAM:		
		Quarte	r Ho	urs
Subject Matter	Specia	lization		40
PET 3310	Kines		5	
PET 3360	Exerci	ise Physiology	5	
PET 3461C	Physic	cal Education in		
	the El	ementary School	5	
PET 3202	Physic	cal Education in		
	the Se	condary School	5	
PET 3640C		ted Physical		
	Educa		5	
PCB 3700	Found	dations of		
	Huma	n Physiology	5	
PET 4230C		r Learning	5	
PET 4510		ation in Physical		
	Educa	-	5	
The student ha		ption of selecting		
		ourse work in the		
elementary em				
emphasis areas		or occondury		
•				
Electives: Elem		Physical		
Education Em				10
PET 4430		cal Education for		
		ary Grades	5	
PET 4433	Physi	cal Education for		
	Intern	mediate Grades	5	
or				
Electives: Seco	ndary	Physical		
Education Em	phasis			10
PEO 4014C	Coac	hing Sports*	5	
PET 4622C		tic Injuries*	5	
SOP 3932		nology of Drug		
	Abus		5	
HES 4001	Com	munity Health	5	
HES 4160		cal Issues in		
	Healt		5	
Professional E	ducatio	on:		40
EDF 3827		oling in America	5	
EDG 3321		ral Teaching Lab		
	I		5	
EDG 3322	Gene	ral Teaching Lab		
	II	in reacting but	5	
<b>RED 4335</b>		ial Teaching Lab:		
1555	Read	ling	5	
PET 4450L		ial Teaching Lab:	5	
111 4501		ical Education	5	
PET 4945L		ent Teaching	15	
	Studi	ent reaching		
				90

\*Student must elect one of these two courses.

### Physics Education: Grades 7–12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours of general physics; 12 quarter hours (8 semester hours) of general chemistry; mathematics through

Calculus II; and Foundations of Education (10) quarter hours). If foundations requirements are not met at the lower division, they must be taken in addition to the 90 quarter hours required in the student's upper division program. *Remarks:* Linear algebra, a prerequisite for multi-variable calculus (section 1 below) may be taken at the lower division or at Florida International.

UPPER DIVISION PROGRAM:

offek biribion fikookaa.	* *	
Quarter	Ho	
Subject Matter Specialization:		41
	15	
Junior Physics Laboratory		
3040L-3042L	6	
	10	
Electives in Physics	5	
Multivariate Calculus	5	
Professional Education:		40
EDF 3827 Schooling in America	5	
EDG 3321 General Teaching		
Laboratory I	5	
EDG 3322 General Teaching		
Laboratory II	5	
Reading Requirement:		
RED 4335 Special Teaching		
Laboratory: Reading.	5	
Special Methods and Student Teaching:		
A student must complete ten (10) quar-		
ter hours of foundations courses and all		
core courses before enrolling in 4000		
level special methods courses. A stu-		
dent must enroll for SCE 4330 and		
SCE 4942 in consecutive quarters.		
SCE 4330 Special Teaching		
Laboratory:		
Science		
(minimum prerequisite or		
corequisite of 25 hours required in		
subject matter specialization)	5	
SCE 4944 Student Teaching	15	
Electives:		9
Sufficient number of hours to accrue to		
a total of 90 quarter hours at Florida		
International University.		
Social Studios Education		

### Social Studies Education: Grades 7–12

#### DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: 1) Two courses in history. 2) One course in the social sciences beyond freshman social science core (select from anthropology, economics, geography, political science or sociology). 3) Foundations of Education (10 quarter hours). If foundations requirements are not met at the lower division, they must be

# Subject Specializations

taken in addition to the 90 quarter hours required in the student's upper division program. UPPER DIVISION PROGRAM:

Quarter	$\cdot H_0$	our
Subject Matter Specialization:		30
History	10	
Political Science (POS 3044)	5	
Geography (GEA 3000)	5	
Economics	5	
Anthropology or Sociology	5	
Professional Education:		15
EDF 3827 Schooling in America	5	
EDG 3321 General Teaching		
Laboratory I	5	
EDG 3322 General Teaching		
Laboratory II	5	
Reading Requirement:		5
RED 4335 Special Teaching		
Laboratory: Reading.	5	
Special Methods and Student Teaching:		20
A student must complete ten (10) quar-		

A student must complete ten (10) quarter hours of foundation courses, and all core courses before enrolling in 4000 level special methods courses. A student must enroll for SSE 4384C and SSE 4942 in consecutive quarters, in either a fall-winter or a winter-spring quarter sequence.

SSE 4384C	Special Teaching	
	Laboratory: Social	
	Studies	5
SSE 4942	Student Teaching	15
Electives		

\*A minimum of 65 quarter hours at the lower and upper divisions combined must be completed in the social studies subject matter specialization for certification. Electives must include sufficient quarter hours in United States history (10). history other than United States (15). political science (10), geography (10). economics (10). anthropology (5) and sociology (5) to meet social studies certification requirements. It is recommended that the student consider a double major which combines a major in social studies with a major in history, history education, international relations. political science, economics, anthropology or sociology. The student must consult with the social studies advisor about these requirements.

**Graduate Programs** 

Master's programs are offered by the Division in the following specialized areas:Art EducationMusic EducationEnglish EducationPhysical Education

Health Education Mathematics Education Modern Language Education Science Education Social Studies Education TESOL (Teaching English to Speakers of Other Languages)

A student must file a program of study with the advisor. The program of study must comply with the general master's degree requirements and reflect the career goals of the student.

Upon completion of the program, the student is awarded the Master of Science degree and qualifies for Rank II certification in the State of Florida.

Requirements for admission to all of these programs except TESOL are: (1) possession of a certificate or equivalent in the area selected, (2) satisfactory scholastic aptitude as determined by the Graduate Admission standards, (3) evidence of satisfactory record in the teaching field.

Requirements for admission to the TESOL master's program are: (1) satisfactory scholastic aptitude as determined by the Graduate Admissions standards and (2) evidence of a satisfactory record in a teaching or professional field.

A typical program of study consists of 45 quarter hours of course work. Generally, ten quarter hours of graduate study from another accredited college or university may be transferred if applicable to the student's program.

All courses taken in the College of Arts and Sciences which are to be applied to an Education Major must be evaluated using the letter grade system.

*Note:* If students have not met the reading requirement for certification, they will be required to take RED 6337 (See page EDU 2).

## **Art Education**

20

90

DEGREE: Master of Science **Ouarter** Hours Education, including Art Education: 20 EDF 5481 Analysis and Application of Educational Research 4 Curriculum and ARE 6140 Instruction in Art 4 Select one of the following: ARE 5251 Art for Exceptional Children and 4 Youth EDE 6205 Curriculum Design for Childhood Educ. ESE 6215 Secondary School Curriculum

ARE 6262	Organization and		
	Coordination of		
	School and		
	Community Art		
	Programs	4	
ARE 6706 Se	minar in Art		
Education: Con	temporary Issues		
and Research		4	
Teaching Field:			21
Five graduate	art courses,		
including one a			
Art History (	5)		
Studio Art (1	6)		
(4 quarter ho	urs credit for each		
studio course)			
Electives:			8
			10

# **English Education**

DEGREE: Master of Science

	Quarter	· Hou	irs
Education:			16
EDF 5481*	Analysis and		
	Application of		
	Educational		
	Research	4	
LAE 6339*	Teaching English in		
	the Secondary		
	School	4	
ESE 6215	Secondary School		
	Curriculum	4	
LAE 6935	Seminar in English		
	Education	4	
*These courses to	be taken in sequence		
Teaching Field: E	inglish		25
Electives:			4
			_
			45

# **Mathematics Education**

DEGREE: Master of Science

Quarter	Hours
Quarter	nours

	2	
Education:		16
EDF 5431	Analysis and	
	Application of	
	Educational	
	Research	4
MAE 6336	Teaching	
	Mathematics in the	
	Secondary School	4
MAE 6899	Seminar in	
	Mathematics	
	Education	4
ESE 6215	Secondary School	
	Curriculum	4

Quarter Hours

4

4

4

4 25

5

(Continued)

16

# **Subject Specializations**

Teaching Field:		20	Social Sta	udies Educatio	n	Modern L	anguage
Electives: In Edu Mathematics	ucation and/or	9	DEGREE: Masi	er of Science		Education	
		45	DEGREE. Miss	Quarter	· Hours	DEGREE: Maste	on of Science
		-15	Education:	~	16	DEGREE: Masi	er of science Quarter
<b>Music Ed</b>	lucation		SSE 6633	Teaching Social		Professional Educ	~
WIUSIC EU	iucation			Studies in the		EDF 5481	Analysis and
DEGREE: Mas	ter of Science		EEE (216	Secondary School	4		Application of
	Quarter	r Hours	ESE 6215	Secondary School Curriculum	4		Educational
Education:		16	EDF 5481	Analysis and	4		Research
ESE 6215	Secondary School		LDI J401	Application of		ESE 6215	Secondary School
	Curriculum	4		Educational			Curriculum
0r	Curriculum Design			Research	4	FLE 6805	Teaching Second Language in the
EDE 6205	Curriculum Design for Childhood		SSE 6939	Seminar in Social			Secondary School
	Education			Studies Education	4	FLE 6938	Seminar in Second
EDF 5481	Analysis and			Graduate level social		1 22 0750	Language Education
	Application of		science and hist		20	Area of Specializ	0 0
	Educational		Electives: In Ed	ucation and/or			noose, in consultation
	Research	4	teaching field		9	with the advisor	r, a total of 25 hours
MUE 6349	Methodology of				45	from among the	e following courses in
	Music Teaching	4					s of English, Modern
MUE 6938	Seminar in Music		Health E	ducation		Languages, and	
	Education	4	Health E	uucation		L1N 4400	Applied Linguistics
0	Courses in music	20	DEGREE: Mas	ter of Science			(or graduate
including: MUH 5375	Truentisth Conturn	20			er Hours	ENG 5907	equivalent) Independent Study
MOH 3373	Twentieth Century Music	4	Professional Edi	ucation ~	16	LIN 3400	Applied Linguistics
MUT 5325	Arranging	4	EDF 5481	Analysis and		Liiv 5400	(or graduate
MUG 5105	Advanced			Application of			equivalent)
	Conducting	2		Educational		LIN 5701	Psychology of
Electives:	U	9	ED G (MAG	Research	4		Language (or
		45	EDG 5325	Analysis of Teaching	4		graduate equivalent)
		-5	EDF 5216	Affective Learning in the Classroom	4	LIN 4710	Language
Science I	Education		<b>RED 6337</b>	Reading in the	-		Acquisition (or
Science I	Luucation		RED 0557	Secondary Schools	4	EDW/ 6160	graduate equivalent)
DEGREE: Mas	ter of Science		Area of Speciali		21	FRW 5150 FRW 5395	Comparative Studies Genre Studies
		r Hours	HES 5205	Current Concepts in		FRW 5934	Special Topics in
Education:		16		Community Health	4	1100 5751	Language/Literature
EDF 5481	Analysis and		HES 5327	Health Curricula in		FRW 5938	Graduate Seminar
	Application of			Public Schools	4	SPW 5155	Comparative Studies
	Educational		HES 5326	Educational		SPW 5391	Genre Studies
SCE 6635	Research	4		Approaches to Health Problems	4	SPW 5934	Special Topics in
SCL 0055	Teaching Science in the Secondary		CLP 5185	Current Issues in	4	aput cook	Language/Literature
	School	4	CEI 5105	Mental Health		SPW 5936	Graduate Seminar
ESE 6215	Secondary School	7	or	intentar intentio		LIN 5625	Studies in Bilingualism
	Curriculum	4	SOC 5255	Sociology of Mental		LIN 5934	Special Topics in
SCE 6933	Seminar in Science			Health	5	LIN	Linguistics
	Education	4	HUN 5890	Recent Research in		Field Componen	<u> </u>
Teaching Field:		20		Nutrition			five (5) quarter hours
	mistry or Physics		or	A			supervised field experi-
or One energy in			HUN 5611	Nutrition Education			hing of one of the mod-
eas: Biology	ach of the following ar- chemistry, Physics (For		Electives:	in the Community	4 8	ern languages.	The field experience
Junior High Sci			DEP 4464	Psychology of Aging			
Electives:	ience reachers)	9	1711 4404	r sychology of Aging			(Ca
					45		
		45					

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# Subject Specializations

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may be arranged according to one of the following options: (a) Dade County Public Schools; (b) Private schools; (c) adult or community college education: (d) adjunct teaching at Florida International University

All arrangements for field experience must be approved by the advisor.

TOTAL

# **Physical Education**

DEGREE: Master of Science

	Quarter	- Hou	urs.
Professional Educ	cation		8
EDF 5481	Analysis and		
	Application of		
	Educational		
	Research	4	
RED 6337	Reading in the		
	Secondary School	4	
Area of Specializ			28
PET 5216	Sports Psychology	4	
PET 5238C	Perceptual Motor		
	Learning	4	
PET 5256C	Sociology of Sport	4	
PET 5366C	Sports Medicine	4	
PET 5438	Physical Education		
1210.00	Curriculum in		
	Elementary School	4	
PET 6353	Survey of Research	7	
1210555	in Physical		
	Education	4	
PET 6932		4	
1110754	Seminar in Physical Education		
Electives:	Education	4	0
PET 6925**	We list and		9
FEI 0925***	Workshop in	~	
DET (610*	Physical Education	5	
PET 4510*	Evaluation in	-	
DET TOOL	Physical Education	5	
PET 5906	Individual Study	1-5	
EDG 6250	Curriculum		
	Development	4	
ESE 6215	Secondary School		
	Curriculum	4	
EDF 5216	Affective Learning	4	
EME 5315	Instructional Media	4	
EDG 5325	Analysis of Teaching	4	
or			
	oved in advance by stu-		
dent's advisor			

\*Required of all graduate students if they have not taken an undergraduate evaluation class. \*\*Only one workshop can be counted toward

45

45 hours of degree work.

### **Teaching English to Speakers of Other** Languages (TESOL)

Language	S (TESUL)		
DEGREE: Maste	er of Science		
	Quarter	Ho	urs
Professional Educ			16
EDF 5481	Analysis and		
	Application of		
	Educational		
	Research	4	
ESE 6215	Secondary School		
	Curriculum		
or			
EDE 6205	Curriculum Design		
	for Childhood		
	Education	4	
FLE 6895	Special Methods of		
	TESOL	4	
FLE 6938	Seminar in Second		
	Language Education	4	
Area of Specializ			25
	M.S. in TESOL will		
	ultation with the advi-		
	hours from among the		
	es in the Departments		
	dern Languages, and		
Psychology:			
ENG 4555	Modern English		
0.0000	Grammar (or		
	graduate equivalent)		
LIN 4400	Applied LInguistics		
2011. 1100	(or graduate		
	equivalent)		
ENG 5907	Independent Study		
LIN 3400	Applied Linguistics		
	(or graduate		
	equivalent)		
LIN 4226	Contrastive		
	Phonology (or		
	graduate equivalent)		
LIN 4333	Contrastive		
	Morphology (or		
	graduate equivalent)		
LIN 4418	Problems in		
	Language Learning		
	(or graduate		
	equivalent)		
LIN 5625	Studies in		
	Bilingualism		
LIN 5934	Special Topics in		
	Linguistics		
LIN 5701	Psychology of		
	Language (or		
	graduate equivalent)		
LIN 4710	Language		
	Acquisition (or		
	graduate equivalent)		
	-		

#### Field Component:

The remaining five (5) quarter hours will consist of a supervised field experience in the teaching of English to speakers of other languages. The field experience may be arranged according to one of the following options:

5

46

(a) ESOL in Dade County Public Schools:

(b) ESOL in adult and/or

community college education;

(c) ESOL in private enterprise;

(d) Intensive English at Florida

International University

All arrangements for field experience must be approved by the advisor

TOTAL

# **Course Descriptions**

#### Definition of Prefixes

ARE-Art Education: ESE-Education Secondary; FLE-Foreign Language Education; LAE -Language Arts & English Education; MAE-Mathematics Education; MUE-Music Education; SCE-Science Education; SSE-Social Studies Education; PET-Physical Education; HES-Health Education.

#### ART EDUCATION

#### ARE 4316 Special Teaching Laboratory:

Art in Grades K-6 (5)(F,S)Development of instructional skills, techniques. and strategies for teaching art in the elementary school. Laboratory and field participation required. Prerequisites: EDF 3827, EDG 3321, EDG 3322. Minimum prerequisite or corequisite of 30 hours required in subject matter specialization.

#### ARE 4341 Special Teaching Laboratory:

Art in Grades 7-12 (5)(F,W)Development of instructional skills, techniques and strategies for teaching art in the junior and senior high school. Laboratory and field participation required. Prerequisites: EDF 3827, EDG 3321. EDG 3322; ARE 4316. Minimum prerequisite or corequisite of 30 hours required in subject matter specialization.

#### ARE 4940 Student Teaching in Art

(15)(W,S)

Supervised teaching in an elementary and secondary school. Prerequisites: EDG 3321, 3322; ARE 4316, 4341; RED 4335, and 30 quarter hours of the course work required in art.

# **Subject Specializations**

#### ARE 5251 Art for the Exceptional Child (5)(W,SS)

Development of instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation required.

#### ARE 5905 Directed Study in Art Education (1-5)

Individual investigation and research in one or more areas of art education. Prerequisite: consent of professor.

#### ARE 6140 Curriculum and Instruction in Art (4)(W)

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. Prerequisite: EDF 5287.

#### ARE 6262 Organization and Coordination of School and Community Art

(4)(F,SS)

Procedures for the organization, coordination and evaluation of school, community, and inservice art programs, with particular attention to the urban multi-cultural setting.

#### ARE 6706 Seminar in Art Education: Contemporary Issues and

Research

(4)(S)Examination of current issues and review of research in art education literature. Delineation and application of an individual research problem. Prerequisite: EDF 5481.

ARE 6926 Workshop in Art Education (3-5) Production and application of materials and techniques in art education, in a laboratory or field setting.

#### MUSIC EDUCATION

#### **MUE 3332 Special Teaching**

Laboratory I (5)(W) Development of instructional skills, techniques, and strategies for school music performance organizations through laboratory and field experiences. Prerequisites: EDF 3827, EDG 3321, 3322

#### MUE 4341 Special Teaching Laboratory II

(5)(W) Field-based methods, materials and instructional skills course, which prepares students for internship in an elementary and secondary school setting. Prerequisites: EDF 3827, EDG 3321, EDG 3322, MUE 3332.

**MUE 4940 Student Teaching** (15)(S)Supervised teaching in an elementary school (5 weeks) and a secondary school (5 weeks). Prerequisites: EDF 3827, EDG 3321, EDG 3322; MUE 3332, MUE 4341; RED 4335, and 30 quarter hours of the coursework required in music.

MUE 5907 Directed Study in Music

Education (1-5)(ARR)Individual investigation in one or more areas of music education.

MUE 5928 Workshop in Music (1-5)(ARR) Applications of materials and techniques in music in a laboratory or field setting.

**MUE 6349** Methodology of Music Teaching (4)(W,SS)

Analysis of methods, programs and materials for teaching music in the public schools, and development of music pedagogy skills.

MUE 6925 Workshop in Music Education (1-5)(ARR)

Applications of materials and techniques in music education in a laboratory or field setting.

**MUE 6938 Seminar in Music Education** (4)(F,S)

Seminar in music programs in the United States and other countries, and current issues and problems facing the music educator.

#### SECONDARY EDUCATION: GRADES 7-12

ESE 5908 Individual Study (1-5)(ARR)The student plans and carries out an independent study project under direction. Prerequisites: Consent of instructor.

#### ESE 6215 Secondary School Curriculum (4)(W,SS)

Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.

#### ESE 6425 Research in Secondary Education (1-4)(ARR)

Examination and evaluation of research studies in secondary education. Prerequisite: At least one course in research methods or equivalent competency. (Determination of equivalent competency will be made by the instructor.)

#### ESE 6925 Workshop in Secondary Education (3-5)(ARR)

Production and application of materials and techniques in a laboratory or field setting. Prerequisite: Consent of instructor.

#### ESE 6935 Seminar in Secondary Education (1-4)(ARR)

Analysis of selected problems in secondary education.

#### ESE 6947 Supervised Field Experience (5-15)(ARR)

Field work in an educational institution or or-

ganization. Prerequisite: consent of Chairperson of the Division.

#### FLE 4375 Special Teaching Laboratory: Modern Languages

(5)(W)Development of instructional skills, techniques, and strategies for teaching modern languages in the junior and senior high school. Prerequisites: EDF 3827, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 20 hours in subject matter specialization.

FLE 4942 Student Teaching (15)(S)Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4335, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

FLE 5908 Individual Study (1-5)(ARR)The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

#### FLE 6805 Teaching Second Language in the Secondary School (4)(W-SS)

A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of techniques and materials for second language teaching. Prerequisites: LIN 3010 or ENG 3500 or equivalent.

#### FLE 6895 Special Methods of TESOL

(4)(F)

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.. Prerequisites: LIN 3010 or ENG 3500 or equivalent.

#### FLE 6925 Workshop in Second Language

Education (1-5)(ARR)Production and application of materials and techniques in second language education in a laboratory or field setting.

#### FLE 6938 Seminar in Second Language Education

(4)(S)

Advanced study and research on current topics and issues in the field of second language education. Variety of topics to include language testing, language proficiency, language and society, bilingual/bicultural education, and error analysis and the language learner.

#### LAE 4335 Special Teaching Laboratory: (5)(W) English

Development of instructional skills, techniques, and strategies for teaching English in the junior and senior high school. Prerequisites: EDF (Continued)

# Subject Specializations

3827, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 25-30 hours in subject matter specialization.

#### LAE 4464 Experiencing Adolescent Literature in the Junior-Senior High School (5)(F)

An examination of the most familiar types of literature found in the secondary school English curriculum today: and the development of strategies for organizing and providing a variety of literary experiences of students who differ in intellectual abilities and literary tastes.

LAE 4942 Student Teaching (15)(S) Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4335, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

LAE 5908 Individual Study (1-5)(ARR) The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

#### LAE 6339 Teaching English in the Secondary School (4)(F)

Analysis of methods, programs, and materials for teaching English in the junior and senior high school, and development of teaching skills.

# LAE 6925 Workshop in English Education (1-5)(ARR)

Production and application of materials and techniques in English education in a laboratory or field setting.

# LAE 6935 Seminar in English Education (4)(S)

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.

#### MAE 4333C Special Teaching Laboratory: Mathematics (5)(W)

Development of instructional skills, techniques, and strategies for teaching mathematics in the junior and senior high school. Prerequisites: EDF 3827, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 25 hours in subject matter specialization.

MAE 4942 Student Teaching (15)(S) Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827. EDG 3321, EDG 3322, RED 4335, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization. MAE 5908 Individual Study (1-5)(ARR) The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

#### MAE 6336 Teaching Mathematics in the Secondary School (4)(F)

Analysis of methods, programs and materials for teaching mathematics in the junior and senior high school, and development of teaching skills.

#### MAE 6899 Seminar in Mathematics Education

Education (4)(S) Designed to provide the advanced student with deeper understanding of the current state of mathematics education. Major emphasis is on current trends and curriculum projects on the national and international levels, as well as evaluation and research related to these trends.

#### MAE 6925 Workshop in Mathematics

Education (1-5)(ARR) Production and application of materials and techniques in math education in a laboratory or field setting.

#### RED 4335 Special Teaching Laboratory: Reading (5)(F,W,S,SS)

Development of instructional skills, techniques, and strategies for teaching reading in the junior and senior high school. Attention to attaining competence in subject-matter related reading skills.

#### SCE 4330 Special Teaching Laboratory: Science (5)(W)

Development of instructional skills, techniques and strategies for teaching biological and physical sciences in the junior and senior high schools. Prerequisites: EDF 3827, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 25-30 hours in subject matter specialization.

SCE 4944 Student Teaching (15)(S) Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4335, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

SCE 5908 Individual Study (1-5)(ARR)The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

#### SCE 6635 Teaching Science in the Secondary School (4)(F)

Analysis of methods, programs, and materials for teaching science in the junior and senior high school, and development of teaching skills.

#### SCE 6925 Workshop in Science Education (1-5)(ARR)

Production and application of materials and techniques in science education in a laboratory or field setting.

# SCE 6933 Seminar in Science Education (4)(S)

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.

### SSE 4384C Special Teaching Laboratory:

Social Studies (5)(F,W) Development of instructional skills, techniques, and strategies for teaching history and social science in the junior and senior high school. Prerequisites: EDF 3827, EDG 3321, and EDG 3322. Field experience required.

SSE 4942 Student Teaching (15)(W.S) Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4335, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

SSE 5908 Individual Study (1-5)(ARR) The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

#### SSE 6633 Teaching Social Studies in the Secondary School (4)(F)

Analysis of methods, programs, and materials for teaching social studies in the junior and senior high school, and development of teaching skills.

### SSE 6925 Workshop in Social Studies

Education (1-5)(ARR) Production and application of materials and techniques in social studies education in a laboratory or field setting.

#### SSE 6939 Seminar in Social Studies

Education (4)(S) 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.

#### HEALTH EDUCATION

#### HES 4303L Special Teaching Laboratory: Health Education (5)

This course is designed to develop competencies directly associated with classroom teach-

(5)

(5)

(4)

# **Subject Specializations**

ing. Students will be expected to demonstrate these competencies in a variety of public school situations.

**HES 4001 Healthful Living: Community (5)** Students will develop competencies on community health by identifying, observing, and discussing aspects of health that affect society, such as ecology and pollution.

#### HES 4160 Critical Issues In Health Education

The student will develop competencies in distinguishing between and interpreting those aspects of health which appear to be most important to society, including legislative issues and public opinion.

HES 4940 Student Teaching (15)(F,W,S) During the internship the student will demonstrate those competencies which are characteristic of a competent health education teacher.

#### HES 5205 Current Concepts in Community Health (4)

Students will examine the attitudes of people with various social backgrounds, and discuss the ways in which these different attitudes relate to the formulation of community health programs.

#### HES 5326 Educational Approaches to Health Education (4)

Students will select various modern techniques and tools for teaching elementary health education, and employ these techniques and tools in a classroom setting.

#### HES 5327 Health Curricula in Public Schools

Students will develop and analyze various health curricula and validate their appropriateness to various age groups.

HES 5908 Individual Study (1-5)(ARR) Individuals work independently on health education topics of their choice under the direction of faculty members. Permission of the instructor and Division Chairperson is needed.

**HES 6928 Creative Workshop in Health (4)** Students will create materials and teaching techniques for health education. These materials and techniques will then be utilized in practical classroom situations.

#### HES 6943 Supervised Field Experience

(5-15)

(4)

A practical study pursued in an educational environment at a university, agency, or school approved by the faculty. Approval to enroll will be granted upon submission of an acceptable proposal stating objectives and desired outcomes of such an experience.

#### PHYSICAL EDUCATION

PET 3202 Physical Education in the Secondary School

Students will study methods, philosophy, and curriculum for physical education in secondary schools, grades 6-12. Field experiences will be required in addition to class work.

(5)

PET 3310 Kinesiology (5) This course is designed to provide students the opportunity to demonstrate in a teaching situation the application of various principles of movement.

PET 3360 Exercise Physiology (5) Students will be expected to apply various aspects of the functioning of the human body to the development of physical education programs and the teaching of specific sport skills.

#### PET 3461C Physical Education in the

Elementary School (5) Students will study methods, philosophy and curriculum for modern physical education in elementary schools. K-6 Field experiences will be required in addition to class work.

**PET 3640C Adapted Physical Education (5)** Competencies to be achieved include both a physiological and psychological understanding of atypical children and the ability to apply this knowledge in practical situations. Field experiences required.

PET 4230C Motor Learning (5) Students will demonstrate knowledge and application of the physiological and psychological factors affecting motor skill acquisition and performance.

#### PET 4430 Physical Education for Primary Grades (5)

Designed to provide students with competencies necessary for the development and implementation of physical education programs in

grades K-3. A three-hour per week field experience in an elementary school is required.

#### PET 4433 Physical Education for

Intermediate Grades (5) Designed to provide students with competencies necessary for the development and implementation of physical education programs in grades 4–6. A three-hour per week field experience in an elementary school is required.

#### PET 4450L Special Teaching Laboratory: Physical Education (5)

This course is designed to develop competencies directly associated with classroom teaching. Students will be expected to demonstrate these competencies in a variety of public school situations.

#### PEO 4014C Coaching Sports

Students will examine the philosophy, organization, and skills necessary for coaching interscholastic sports in an educational environment.

PET 4510 Evaluation in Physical Education (5)

Students will demonstrate competencies in motor skill testing, grading, and analysis of written test scores necessary for successful teaching in physical education.

**PET 4622C Athletic Injuries** (5) Students will demonstrate knowledge of the proper care and prevention of athletic injuries through the application of acceptable training techniques.

**PET 4945L Student Teaching** (15)(F,W,S) During the student's internship, the student will demonstrate those competencies which are characteristic of a competent physical education teacher.

PET 5125 History of Physical Education and Sport (4)

Students will study the history of sport and will take part in writing their own review of sport from a chosen time in history.

#### PET 5216 Sports Psychology

Course will include an analysis of psychological variables which might influence physical performance. Topics to be discussed include personality development, motivation, anxiety, tension, stress, aggression, attribution theory, and social facilitation. The course is intended for prospective physical educators and others interested in motor performance. No prerequisites.

**PET 5238C Perceptual Motor Learning (4)** Students will demonstrate knowledge and understanding of various approaches to, and theories of, perceptual motor learning, with special emphasis in physical education. Perceptual motor tasks will be performed as well as taught by the students.

PET 5256C Sociology of Sport (4) Students will demonstrate a thorough understanding of the sociological bases of sport and will actively engage in a field study involving a particular phase of sport and society.

**PET 5366C Sports Medicine** (4) The class will focus on the application of medical knowledge to sport with the aim of preserving the health of an athlete, while improving performance.

# **Vocational Education** *J*

(4)

#### PET 5426 Curriculum Development in Physical Education

Students will develop their own curricula after examining and discussing modern curriculum theory. A problem-solving approach will be employed as students test their programs at various grade levels in the public schools.

#### PET 5438 Physical Education Curriculum in the Elementary School (4)

Examination of objectives, content, methods of teaching, and evaluative techniques in elementary school physical education. Emphasis on curriculum development and refinement of teaching skills.

**PET 5906 Individual Study** (1-5)(ARR) Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor.

#### PET 6535 Survey of Research in Physical Education (4)

Following a survey of research in physical education, students will demonstrate competencies in applying this knowledge to teaching situations in the public schools.

# PET 6925 Workwhop in Physical Education (1-5)

Students will create materials and teaching techniques for physical education. These materials and techniques will then be utilized in practical classroom situations.

**PET 6932 Seminar in Physical Education (4)** Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport.

#### PET 6944 Supervised Field Experience

(5-15)(F,W,S)Students may use this course to become involved in an in-depth study, research project, or any one of a variety of other activities, under the guidance of a faculty member.

# **International Institute for the Study of Sport (IISS)**

Florida International University will begin to conduct significant research in national and international sport in September, 1979, in the newly established International Institute for the Study of Sport (IISS), pending approval from the Florida Board of Regents. The primary purpose of the Institute is to examine sports as an object of liberal inquiry, investigating its biological, psychological, and sociological dimensions. All students, both undergraduate and graduate, who are interested in participating in the institute should contact Dr. Jack H. Llewellyn, Director; Dr. Richard Lopez, Associate Director of Operations; or Dr. Donald Smith, Associate Director of Research.

# Division of Vocational Education

Dominic Mohamed, Associate Professor and Chairperson Myrna P. Crabtree, Professor Dean Hauenstein, Professor

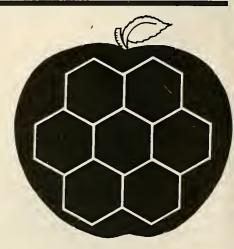
Curtis Bradley, Associate Professor George W. Vanover, Associate Professor Rosemere Baum, Assistant Professor Robert O. Pryor, Assistant Professor Janice R. Sandiford, Assistant Professor Dennis G. Tesolowski, Assistant Professor Chester Wichowski, Assistant Professor

The Division prepares and services professional personnel whose major functions are to teach, coordinate, supervise, and administer vocational education programs in schools and other public and private agencies. Programs of preparation utilize a multi-school approach across academic disciplines within the University. The Division utilizes performance-based curricula to develop competencies at the undergraduate and graduate levels. In addition to formal degree programs, the Division offers courses for specific areas of certification in vocational teacher/administration certification.

## **Undergraduate Programs**

The Division offers undergraduate preparation leading to the degree of *Bachelor of Science* in Education with specialized majors in the following areas: Industrial Arts Education, Technical Education, Vocational Home Economics Education, Vocational Industrial Education. Although the programs are designed for entry into the field of public education, a candidate may seek employment in business, industry, or other private agencies.

Applicants for admission are required to have an associate degree or equivalent course work. For specific entrance requirements, consult the general admission statement for undergraduate students in this catalog. Because of the wide range of entry level competencies and career goals, each student in consultation with his or her advisor plans a program of study during the first quarter of enrollment.



# **Business Teacher** Education

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours).

Required Technical Preparation: Business Machines, advanced courses in typewriting and shorthand, office practice or secretarial procedures. Students should complete as much of the following as possible at the community college or its equivalent course work from another four-year college or university with the remainder to be taken at FIU: Six semester hours in accounting, six semester hours in economics, two semester hours in business English, and two semester hours of business law.

#### UPPER DIVISION PROGRAM:

		Qu	arter Hours
Professional E	ducotion		(60-75)
EDF 3827	Schooling in		
	America		5
EDG 3321	General		
	Teaching		
	Laboratory I		5
EDG 3322	General		
	Teaching		
	Laboratory		
	11		5
RED 4335	Special		
	Teaching		
	Laboratory:		
	Reading		5
EVT 3065	Foundations		
	of Vocational		
	Education		5
*EVT 4949	Supervised		
	Occupational		
	Experience (5-	15)	
BTE 3068	Principles of		
	Business		
	Education	5	
BTE 4360	Special		
	Teaching		
	Lab:		
	Business		
	Education		
	Non-Skills	5	
			(Continued)

# **Vocational Education**

			· · · ·			1		
BTE 4364	Special		UPPER DIVI	SION PROGRAM	vi:	6. Educationa	al settings in busin	ness, industry or
BIL IST.	Teaching				Quarter Hours	public servi	ice agencies	
	Lab:		Professional Ed		50		0-	
	Business		EDF 3827	Schooling in				90
	Education			America	5			
	Skills	5	EDG 3321	General		Health (	Occupation	96
BTE 4944	Special			Teaching				15
	Teaching			Laboratory I	5	Educatio	n	
	Lab:		EDG 3322	General		DECREE, R		
	Business			Teaching			chelor of Science	
	Education			Laboratory			ISION PREPAR	
	Practicum	5		11	5	Required Cour	rses: Foundation	s of Education
BTE 4945	Student		HEE 3302	Home		(10 quarter ho		
BIE 4945	Teaching in		THE SOUL	Economics			nical Preparation	· Occupational
	Business			Educational			the student's in	
	Education	15		Planning	5		as nursing, denta	
siness Admin		(20)	RED 4335	-			atory therapy, rac	
commended (		(20)	KED 4555	Special			allied health rela	
<i>commenaea</i> C FIN 3100	Personal			Teaching Lab:			ing beyond the tw	
FIN SIOU	Finance &			Lao: Reading	5		upational area wh	
	Resource		UEE 4104	U	5	Suggested Elec		Quarter Hours
	Management	5	HEE 4104	Instruction in Vocational			ould be taken	Quarter mours
FIN 3403	Financial	5		Home		to equal a min		
FIN 3403		5			5	quarter hours		20
MANI 2010	Management	5		Economics	2	1	TON DROOP	
MAN 3010	Organization		HEE 4944	Special			ISION PROGRA	
	and	5		Teaching		Professional Ed	ducation Requiren	
1421 2022	Management	5		Laboratory:				Quarter Hours
MAN 3023	Marketing	5		Home		Professional Ed		65-80
Election Election	Management	2		Economics		EDF 3827	Schooling in	
lectives: Electi				Education	5		America	5
commended e			HEE 4941	Student		EDG 3321	General	
chool of Educ				Teaching:			Teaching	
chool of Busin				Home			Lab I	5
dministration				Economics	16		Basic	
-	Sciences, and			Education	15		Teaching	
consultation		(10)	Technical Prep				Skills	
rogram adviso		(10)	of 65 quarter h			EDG 3322	General	
	tified vocational bus		from lower and	d upper			Teaching	
	one year (or its equi		division:		(65)		Lab II	5
ce work expe	erience. Supporting	letters from	Housing and	1 Home			Human	
	ers are required. E		Furnishing*		10		Relations	
	eet the work experi	ence require-		nt and Family			Skills	
nent.			Economics*		10	RED 4335	Special	
			Family and				Teaching	
<i>l</i> ocation	al Home		Development*		15		Lab-	
Toonomi	ics Educatio		Food and N		15		Reading	5
Cononn	CS Educatio	Л	Textiles and	Ų	15	EVT 3065	Foundations	
EGREE: Bai	chelor of Science		*Courses of				of Vocational	
		TION	School of Tech	<b>.</b>	-		Education	5
	ISION PREPARA		Advised Electiv		5	or		
	ses: Foundations	of Education				EVT 5078	Technical	
0 quarter hou			concentration				Education in	
	Courses: With refe			ies may be develo	ped in one of		American	
	pecialization, the s						Society	4
uired to have	for certification 65	quarter hours		f consumer and ho	memaking edu-	EVT 3165C		
	ted below under Tea		cation				Planning in	
	may be earned in co		2. One area of	f wage-earning hor			Voc. Educ.	5
	d upper divisions.		3. Education	for the handicappe		EVT 3367	Tests and	
he lower and				for the culturally d	lisadvantaged			
	as many of the bas	sic courses in					measure-	
nended that a	as many of the bas possible be taken in		1 C D 1	for the adult learn			Measure-	(Continued)

1

# **Vocational Education**

	ments in Voc. Educ.	5	ElA 4360	Reading Instruction	5		condary T	echnical
*EVT 4949	Supervised			in Industrial		Educatio	n	
	Occupational Experience	5-15	E14 4041	Arts	5	DEGREE: Ba	chelor of Science	
*For the stude	nt who lacks acce		EIA 4941	Student Teaching:		LOWER DIV	ISION PREPA	RATION:
	ce in the area to			Industrial				ns of Education
	in the upper div			Arts		(10 quarter ho		
	ired for graduatio			Education	15			tion: Technical
Specialization A	<b>1</b> rea		Technical Prep		45			intended area of
Requirements			Required: A n					echnology, archi-
EVT 4310	Planning and		quarter hours a					iene, commercial
	Operating		of 10 quarter h			art, electronic data processing, electro-mechani- cal technology and other occupations requiring		
	HOE Programs	5	the following a					pations requiring grade or demon-
EVT 4311C			_					T 4990 listed be-
LUIAJIIC	Teaching		CONSTRUCT	ION		low.	ipetency via Ev	1 4000 listed be-
	Lab	5	BCN 3702C	Construction		UPPER DIVI	SION PROGR	AM·
EVT 4312	Instructional		FTC (252)	Technology	5			Quarter Hours
	Strategies		ETC 4252L	Construction Processes	E	Professional Ed	ducation	73-83
	and		BCN 4251C	Architectural	5	EDF 3827	Schooling in	
	Evaluation in		Deri 42510	Drafting	5		America	5
	HOE Programs	5	MANUTHOT	e	5	EVT 5078	Technical	
EVT 4940	Student	5	MANUFACTU ETI 3417C				Education in	
	Teaching in		EII 3417C	Manufactur- ing			American Society	4
	Health		1	Technology	5	EDG 3321	General	7
	Occupations		ET1 4421C	Materials	, in the second s		Teaching	
	Education			Processing	5		Laboratory I	5
	Programs	15	EDT 4525C	Drafting l	5	ADE 5385	Adult	
			or				Teaching and	
Industria	l Arts Edu	cation	ETD 4526C		5	EDC 2222	Learning	4
DECREE	chelor of Science		ETM 4823C	Materials of Industry	5	EDG 3322	General Teaching	
	ISION PREPAR	ATION	BCN 4033	Industrial	5		Laboratory	
				Research and			II	5
(10 quarter hou	ses: Foundations	of Education		Development	5	EVT 3165C	Course	
	Courses: With re	ference to the	GRAPHIC CC	MMUNICATION	NS		Planning in	
	aration outlined		ARV 3210	Reprographics	5		Vocational	
	ged to take basic		ARV 4250	Planogra-		RED 4325	Education	5
area in the low				phics	5	KEI) 4325	Special Teaching	
UPPER DIVIS	SION PROGRA	M:	ARV 4150	Photographics	5		Laboratory:	
		Quarter Hours	POWER				Reading	5
Professional Ea		45	ETM 4407	Mechanical		EVT 4949*	Supervised	
EDF 3827	Schooling in			Power			Occupational	
EDC 2221	America	5		Systems I	5		Experience	5-15
EDG 3321	General Teaching		ETE 4562	Electrical/				acceptable occu-
	Laboratory 1	5		Electronics Systems	5	pational expen	ence in the area	to be taught.
EDG 3322	General	0	ETE 3030	Survey of	5	EVT 4990	Credit by	
	Teaching		2122020	Electronics	5		Examination	5-45
	Laboratory		ETM 4408	Mechanical		EVT 5460	Educational	
	11	5		Power			Media	5
EVT 3165C				Systems II	5	EVT 4941	Special	
	Planning		Advised Elective	-			Teaching	
	Vocational Education	5	electives should				Laboratory:	
RED 4335	Special	5	equal a minimu quarter hours.	III 01 90			Technical Education	5
1000	Teaching		quarter nours.	_			Education	
	0		1		90			(Continued)

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# **Vocational Education**

EVT 4940	Student		
	Teaching:		
	Technical		
	Education	15	
Advised Electiv	es: Science,		
mathematics, t	echnology.		
psychology or	sociology		10
Free Electives:	Enough		
electives should	d be taken to		
equal a minimu	um of 90		
quarter hours			10

# Vocational Industrial Education

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours).

Occupational Experience: Evidence of appropriate occupational experience (as per Section 42, Florida State Teacher Certification Guide) must be presented prior to being admitted to the Vocational Industrial Education Bachelor of Science Degree Program.

UPPER DIVISION PROGRAM:

		Quarter Hours
Professional Ed	65-75	
EDF 3827	Schooling in	
	America	5
EVT 3065	Foundations	
	of Vocational	
	Education	5
EDG 3321	General	
	Teaching	
	Laboratory I	5
EDG 3322	General	
	Teaching	
	Laboratory	
	11	5
RED 4335	Special	
	Teaching	
	Lab:	
	Reading	5
EVT 3165C	Course	
	Planning in	
	Vocational	
	Education	5
EVT 3815C	Vocational	
	Education	
	Laboratory	
	Management	
	and Safety	5
EVT 4949*	Supervised	
	Occupational	
	Experience	5-15

tional experienc	who lack accepted in the area to		
or			
EVT 4990	Credit by		
	Examination	5-45	
EVT 5460	Educational		
1.11 2400	Media	5	
EV/T 40.41		5	
EVT 4941	Special		
	Teaching		
	Laboratory:		
	VocInd, Ed	5	
EVT 4940	Student		
	Teaching:		
	VocInd. Ed	15	
		15	10
Advised Elective	s:		10
SOC 4265	Man.		
	Society, and		
	Technology		
	recimology		
or			
SOC 5261	Industrial		
	Sociology	5	
or			
INP 3002	Industrial		
	Psychology		
0.1	rsychology		
or			
EVT 4562	Laboratory		
	Activities for		
	Teachers of		
	the		
	Handicapped	5	
EGC 5305	Educational	5	
LUC 3503			
	and		
	Vocational		
	Guidance	5	
Free Electives:			10
Enough elect	ives should be		
taken to equal			
90 quarter hour			
yo quarter nom			_
			90

### Professional Certificate Programs

The Division offers programs for Rank III and Rank II vocational professional certification. A student in any of these programs should enroll in the University as a professional certificate student in vocational education.

The Standard Certificate Rank III program in vocational teacher education is designed to qualify the practicing vocational education teacher for employment in comprehensive secondary schools, vocational skill centers, and/or technical institutes.

The Post Standard Professional Certificate Rank II program in vocational teacher education is designed to extend to the practicing vocational education teacher certification for teaching in comprehensive secondary schools, vocational skill centers, and technical institutes. Certificate Programs in Industrial Arts Education and Administration and Supervision of Vocational Education Programs are presently being planned for implementation. For specific information concerning the status of each program, contact the Division Chairperson.

# Rank III Vocational Teacher Certification Education

The Standard Certificate in Rank III (valid for 3-years) will be issued by the State Teacher Certification Office to an individual having: (a) three years full-time teaching experience in vocational industrial education subjects, and (b) 30 quarter hours in professional education and vocational teacher education courses. Specific requirements can be found in Section 42 of the State Teacher Certification Guide. Planned programs of preparation completed for certification requirements may be applied to degree requirements.

RECOMMENDED PREPARATION RANK III VOCATIONAL TEACHER CERTIFICATION

0	ua	rtei	r E	lou	rs

te

10

		Qua
Required Cour.	ses:	
Foundations of	f Education	L
(10 quarter ho	urs)	
Professional V	ocational	
Education:		
		Certifica
		Area
EVT 3065	Founda-	
	tions of	
	Vocational	
	Education	A 5
EVT 3165C	Course	
	Planning	
	in	
	Vocational	
	Education	
	(suggested	
	second	
	course in	
	sequence)	B 5
EVT 3815C	Vocational	
	Education	

Management and Safety C 5 EVT 4365C Instructional Processes

Laboratory

Vocational

in

and

# **Vocational Education**

Technical Education (suggested first course in C 5 sequence) EVT 3367 Testing and Measurement in Vocational Education Subjects B 5

### Post Standard Rank II Vocational Teacher Certification Education

The Post Standard Certificate in Rank II (valid for 10 years) will be issued by the State Teacher Certification Office to an individual who (a) has completed 30 quarter hours required in Rank III vocational teacher certification courses, and (b) has been employed as a teacher in public or non-public schools in Florida for three years, and (c) earned 54 quarter hours of college credit in vocational teacher education and general education and/or general professional education and/or technical education courses.

The 54 quarter hours of course work is planned so that (a) a minimum of 18 and a maximum of 27 quarter hours are earned in professional vocational education courses, and (b) a minimum of 18 and a maximum of 27 quarter hours are earned in general education or general professional education and/or technical education courses. A candidate is urged to consult with a Division advisor to formulate a program of study for approval by the State Teacher Certification Office prior to starting his or her program.

## Professional Graduate Certificate Program for Business Education

The professional Graduate Certificate Program for Business Education requires a minimum of 24 quarter hours of course work above the bachelor's degree. This program is designed for those who have already earned a bachelor's degree with a major in Business Education. Consequently, the student will have already met the State Department of Education certificate requirements.

A candidate is urged to consult the Business

Education advisor to plan a program of study prior to starting a program. *Recommended Preparation* 

	Quarte	r hours
RED 6335	Teaching Reading in	
	the Secondary Schools	4*
EVT 5168	Curriculum	
	Development in	
	Vocational Education	4
EVT 5766	Evaluation in	
	Vocational-Technical	
	Education	4
BTE 5671	Problems, Issues and	
	Trends in Business	
	Education	4
BTE 5371	Teaching in Business	
	Education	
	Occupational	
	Programs	
	or	4
BTE 5774	Teaching Basic	
	Business and	
	Consumer Education	
Advised Elective	25	4-8

\*Students who have already met the reading requirement as an undergraduate or through in-service education will not be required to take this course.

## Health Occupations Education Professional Certificate Program

# **General Information**

The overall purpose of the professional certificate program in health occupations education is too enhance the development of basic teaching skills and/or instructional techniques of health occupations educators. The professional certificate program provides for the continuing education, upgrading or redirection needs of health occupations teachers through planned advisement and professional certificate recognition. The programs are for both undergraduate and graduate, degree or non-degree seeking students.

# Undergraduate Professional Certificate Program

This 30 quarter-hour plan is designed to meet the needs of the individual who 1) is occupationally competent in the health field, 2) does not hold or intend to hold a bachelor's degree in Health Occupations Education, and 3) is currently teaching, or wishes to teach, a health occupations subject.

#### Prescribed Courses: Quarter Hours EVT 3065 Foundations of Vocational Education 5 EVT 3165C Course Planning in Vocational Education 5 EVT 3367 Testing & Measurement in Voc. Education 5 EVT 4310 Planning & Operating a Health Occup. Program EVT 4312 Instructional Strategies & Evaluation in Health Occupations 5 Programs

Advised Electives: A minimum of one course selected from courses in General Professional & Adult Education, Vocational Education, Health Service Administration, or health specialty.

# Graduate Professional Certificate Program

This 32 hour plan is designed to meet the needs of the individual who 1) is occupationally competent in a health field and currently teaching or desires to teach a health occupations subject, 2) holds a teaching certificate or equivalent and/or bachelor's degree (or both) including out of field and 3) does not wish to, or is unable to, meet the master's degree entrance requirements necessary to pursue the master's degree.

#### Prescribed Courses:

		Quarter Hour
EVT 5078	Technical	
	Education in	
	American	
	Society	4
or		
EVT 5669	Trends &	
	lssues in	
	Vocational	
	Education	4
EVT 5168	Curriculum	
	Development	
	in Voc. Educ.	4
EVT 5766	Evaluation in	
	Voc. & Tech.	
	Education	4
EVT 5315	Improvement	
	of Teaching	
	U	Continue

# **Vocational Education**

Strategies in Health Occupations & Nursing Education EVT 5163 Occupational Analysis in Health Occupations and Nursing Education and/or ADE 5383 Adult Teaching and Learning Δ Advised Electives: A minimum of two courses selected from courses in General Professional and Adult Education, Vocational Education. Health Service Administration or Health Specialty

8 - 10

### **Vocational Education for** the Handicapped

# **Professional Certificate** Program

Vocational Education for the Handicapped is a non-degree Professional Certificate Program offered through the School of Education. The project represents a unique cooperative effort between the Divisions of Vocational Education and Psycho-Educational Services. Instruction in the program focuses on training professionals in vocational skill areas to more appropriately serve the needs of handicapped adolescents and young adults.

Students who are pursuing, or have completed, either Florida Teacher Competency and Certification, or the bachelor's or master's degree in vocational education or special education are encouraged to enroll in this professional certificate program. Program competencies were selected to enhance professionals' knowledge, skills, and attitudes in the following roles: instructional, diagnostic-prescriptive, behavior manager, advocacy, referral agent, and counselor. These professional roles are represented by 124 competencies which are packed in 6 courses or 30 quarter hours of instruction. Four of these six courses are required courses and two are electives.

The Division of Personnel Preparation in the Bureau of Education for the Handicapped has financially supported this program with a Federal Grant for the past four years. Subsequently, it has been possible to provide financial assistance in the form of a Federal stipend to selected applicants. Students interested in applying for financial assistance should seek further information between January 15 and March 15 of any calendar year.

### Graduate Programs

The Division offers graduate course work leading to the degree Master of Science in Education in Curriculum and Instruction, and Administration and Supervision in Vocational Education.

Requirements for admission to the graduate program in either Curriculum and Instruction or Administration and Supervision for Vocational Education are: the applicant must hold an appropriate certificate or equivalent and (1) have an upper division undergraduate grade point average of 3.0 ("B"), or (2) have a combined score of 1000 on the Graduate Record Examination, (GRE) (verbal and quantitative aptitude sections), or (3) for vocational-industrial and technical education programs only, have a combined score of 2250 on the general examination of the "College Level Examination Program" (CLEP), with a minimum score of 400 on each section.

Master of Science degrees in Business Teacher Education and Health Occupations Education are presently being planned. For specific information concerning these programs, contact the Division Chairperson.

Students are urged to contact the Admission Office or the Division for further information.

Areas of emphasis available, along with typical program of study, follow here.

Note: Students who have already met the reading requirement (p. 160) as an undergraduate or through in-service education may substitute an elective for RED 6333.

### Vocational Home **Economics Education**

DEGREE: Master of Science

		Quarter Hours
Required Core	<b>:</b>	20-24
HEE 5335	Trends in	
	Vocational	
	Home	
	Economics	
	Education	4
EVT 5168	Curriculum	
	Development	
	in Vocational	
	Education	4
HEE 6915	Research in	
	Home	

	Economics	
	Education	4
HEE 6126	0	
	Home	
	Economics in	
	the Secondary	
	School	4
HEE 6937	Seminar in	
	Home	
	Economics	
	Education	4
RED 6337	Teaching	
	Reading in the	
	Secondary	
	School	4
Area of Profes	sional	
Emphasis: Wi		
	oval, a student	
	urses in subject	
matter of Hor	5	
	offerings outside	
of the School		
based on prof		
competencies		15
•	candidate will	13
be encouraged		
selections on		
	eds and career	C 10
goals.		6-10

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### Vocational Industrial Education

DEGREE: Master of Science

**Ouarter Hours** 

		~	
Required Core			20-24
EVT 5669	Trends and		
	lssues in		
	Vocational		
	Education	4	4
EVT 5168	Curriculum		
	Development		
	in Vocational		
	Education		4
EVT 5766	Evaluation in		
	Vocational and		
	Technical		
	Education	4	1
EVT 6760	Research in		
	Vocational		
	Education	4	5
EVT 6930	Seminar in		
21. 1 0500	Vocational		
	Education		1
RED 6337			
RED 0557	Reading in the		
	Secondary		
	Scionaly		

# **Vocational Education**

School	4	
Area of Professional		
Emphasis: A student under		
the direction of an advisor,		
may develop professional		
competencies in an area of		
emphasis through school-		
based field experiences,		
seminars, methods courses,		
workshops, or independent		
study.	12-17	7
Technical Electives: The		
candidate will be encouraged		
to select courses that will		
increase subject area technical		
competence.	4-9	)
		Ĩ

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# **Technical Education**

DEGREE: Master of Science

	-		
		Quarte	er Hours
Required Core	:		20 - 24
EVT 5669	Trends and		
	lssues in		
	Vocational		
	Education	4	
EVT 5168	Curriculum		
	Development		
	in Vocational		
	Education	4	
EVT 5766	Evaluation in		
	Vocational and		
	Technical		
	Education	4	
EVT 6760	Research in		
	Vocational		
	Education	5	
EVT 6930	Seminar in		
	Vocational		
	Education	4	
RED 6337	Teaching		
	Reading in the		
	Secondary		
	School	4	
Area of Profes	sional		
Emphasis:			8
EVT 5078	Technical		
	Education in		
	American		
	Society	4	
ADE 5385	Adult		
	Teaching and		
	Learning	4	
Technical Elec	0	8-13	
The candid	ate will be encou	iraged	to selec

The candidate will be encouraged to select courses that will increase subject area technical competence. Advised Electives for Non-

education Gra	duates:		8-10
EDF 5710	National		
	Educational		
	Systems: A		
	Comparative		
	Analysis (4)	4 - 5	
or	5		
SOC 5284	Sociology of		
	Education (5)		
and			
EXP 5406	Theories of		
	Learning (5)		
or	/		
EDF 6215	Application of		
	Learning		
	Theory to		
	Instruction (4)	4-5	
			45

# **Industrial Arts Education**

DEGREE: Master of Science

		Quarter H	ours
Required Core		- 20	-24
EVT 5669			
	Issues in		
	Vocational		
	Education	4	
EVT 5168	Curriculum		
	Development		
	in Vocational		
	Education	4	
EVT 5766	Evaluation in		
	Vocational and		
	Technical		
	Education	4	
EVT 6760	Research in		
	Vocational		
	Education	5	
EVT 6930	Seminar in		
	Vocational		
	Education	4	
RED 6337	Teaching		
	Reading in the		
	Secondary		
	School	4	
Area of Profes	sional Emphasis	12	-16
EIA 5811	Equipment		
	and Facilities		
	Planning	4	
EIA 6931	Analysis of		
	Industrial Arts		
	Education	4	
The student	under the directi	on of his or	her

The student, under the direction of his or her advisor, may develop professional competencies in an area of emphasis through seminars, methods courses, workshops, or independent study.

Technical Electives: The student is encouraged to select courses that will increase subject area technical competence.

# Administration and **Supervision of Vocational** Education

Area of Emphasis: Vocational Education Admission to graduate programs in the Division requires adherence to the general standards as specified in the Admission Requirements for Graduate Students in this Division. In addition, an applicant must have completed at least one (1) year of successful teaching experience as a teacher of vocational education classes. Under certain conditions, an applicant not meeting the minimum requirements, and who has appropriate professional background and aspirations, may be considered on an individual basis by the Division faculty. 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. The programs require a minimum of 45 quarter hours.

DEGREE: Master of Science				
	Quarter Hours			
Required Core	2:	36-40		
EVT 5168	Curriculum			
	Development			
	in Vocational			
	Education	4		
EVT 5265	Supervision			
	and			
	Coordination			
	of Vocational			
	Education			
	Programs	4		
EVT 5461	Community			
	Relations and			
	Resources for			
	Vocational			
	Education	4		
EVT 6264	Administration			
	of Local			
	Vocational			
	Education			
	Programs	4		
EVT 6930	Seminar in			
	Vocational			
	Education	4		
EDA 6061	The			
	Organization			
	and Operation			
		(Continued)		

## **Vocational Education**

		of the Public		
		School System	4	
	EDA 6530	The		
		Administration		
		of the		
		Secondary		
		School	4	
	EDS 6050	Supervision in		
		Education	4	
	EDG 6250	Curriculum		
		Development	4	
	RED 6337	Teaching		
		Reading in the		
		Secondary		
		School	4	
A	rea of Profes	ssional		
E	mphasis:			4
	EVT 6946	Supervised		
		Field		
		Experience	4	
E	lectives: The	candidate may		
se	elect a course	e (or courses)		
tł	nat will incre	ase		
a	dministrative	e and		
St	pervisory co	ompetencies.		5
				_

### The Specialist in Education and Doctor of Education Degrees

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Preliminary feasibility studies and need assessments are being conducted for possible establishment of a Specialist in Education degree and a Doctor of Education degree in co-operation with other institutions in the areas of Vocational Education, Industrial Arts Education, Home Economics Education, and Business Teacher Education. For specific information concerning the status of each program, contact the Division Chairperson.

## **Course Descriptions**

#### **Definition of Prefixes**

BTE-Business Teacher Education: EDG-Education: General; EEX-Education: Exceptional Child, core competencies; EIA-Education: Industrial Arts; EVT-Education: Vocational/Technical; HEE-Home Economics Education; HES-Health, Education, and Safety.

#### **VOCATIONAL EDUCATION**

#### EVT 3065 Foundations of Vocational Education (5)(F,S)

Competency: A knowledge of the history of vocational education on the national, state, and local levels. **EVT 3165C Course Planning** (5)(F,W,S) Competency: Basic knowledge and skill in analyzing, planning, and organizing bodies of knowledge for instructional purposes.

#### EVT 3367 Testing and Measurements in

Vocational Education Subjects (5) Competency: Technical knowledge and skill in planning for and using tests and measurements as an integral part of the vocational-technical laboratory/shop teaching-learning process. Prerequisite: EVT 3165, Course Planning.

#### EVT 3815C Vocational Education Laboratory

Management and Safety (5)(W) Competency: Knowledge and skill in analyzing, planning, organizing, and controlling laboratory environments and student's safe learning activities.

#### EVT 4280 Occupational Safety & Health (OSHA)

Competency: Knowledge of the history, implications and applications of the Occupational Safety and Health Act of 1970. For vocational and technical teachers, industrial employees, and management personnel.

#### EVT 4365C Instructional Strategies and Evaluation in Vocational and Technical Education (5

Technical Education (5)(F) Competency: Knowledge and skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities.

#### EVT 4562 Laboratory Activities for Teachers of the Handicapped (5)

Competency: The use of projects, tools, materials, and equipment to facilitate training the occupationally handicapped, physically handicapped and mentally retarded.

#### EVT 4668 Emerging Emphasis in Career

Education (5)(F) Competency: A knowledge of current trends and issues in reference to developing and integrating career education into current elementary and secondary educational programs.

#### EVT 4905 Individual Study (1-5)(maximum 10 hrs.)(ARR)

Competency: The ability to identify, research, and report on a special problem of interest to the student. Subject to approval of program advisor.

#### EVT 4940 Special Teaching Laboratory: Vocational Industrial Education

and Technical Education (5)(F,W) Competency: Knowledge of institutional structure, organization, policies, and roles of school personnel, with actual teaching experience in areas of specialization. Prerequisites: EDG 3321, EDG 3322.

#### EVT 4941 Student Teaching: Vocational Industrial Education and

Technical Education (15)(W,S) Competency: Utilization of instructional knowledges, attitudes, and skills in a variety of instructional situations in the vocational educational setting. Prerequisite: EDG 4941.

#### EVT 4949 Supervised Occupational

Experiences (5–15)(ARR) Competency: Occupational skill developed via field based work-experience in industry, business, or a government agency in the occupation in which the student is preparing to teach.

#### EVT 4990 Credit by Examination (5-30)(ARR)

Competency: Technical knowledge and skills in an occupational area such as trade, industry, health and technology, as certified by recognized professional examinations such as the National Occupational Competency Test. Credits cannot be used in lieu of upper division professional program courses.

#### EVT 5067 Cooperative Vocational Education Programs (4)(F)

Competency: Knowledge and skill in the basic philosophy, principles, and processes and procedures of the cooperative method in vocational and technical education.

#### EVT 5078 Technical Education in American Society (4)(W)

Competency: Knowledge of the basic role and current status of technical education in an industrial democracy.

#### EVT 5168 Curriculum Development in

Vocational Education\* (4)(W) Competency: Basic knowledge and skill in analyzing, planning, organizing and developing curriculum in an area of specialization.

#### EVT 5265 Supervision and Coordination of Vocational Education Programs

(4)(F)

Competency: Knowledge and skill in the supervision of personnel, and the coordination of work to achieve institutional goals.

### EVT 5389 Teaching Career Related

Activities (5)(W,SS) Competency: Integration and articulation of career concepts and activities with regular curriculum.

**EVT 5460 Educational Media (5)(F,W,S,SS)** Competency: Knowledge and skill in selecting, developing and utilizing instructional media forms to communicate or demonstrate concepts.

## **Vocational Education**

#### EVT 5461 Community Relations and Resources for Vocational Education

Education (4)(S) Competency: Knowledge and skill in developing and utilizing community resources and establishing public relations procedures and practices to implement vocational education programs.

#### EVT 5669 Trends and Issues in Vocational Education\* (4)(F,S)

Competency: A knowledge of the basic philosophical and curricular trends and issues in vocational-technical education at the international, national, state, and local levels.

#### EVT 5695 International Comparative Vocational Education

Competency: Skill and knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries.

(4)

(5)(S)

#### EVT 5766 Evaluation in Vocational and Technical Education\* (4)(S)

Competency: Knowledge and skills in the use of tests and measurements, to evaluate teaching and learning effectiveness and the validity of objectives.

**EVT 5905 Individual Study** (1–5)(ARR) Competency: The ability to identify, research, and report on a special problem of interest to the student. Subject to approval of program adviser.

#### EVT 5925 Workshop in Vocational

Education (1-10) Competency: Selected competencies related to instructional and technical areas.

#### EVT 6264 Administration of Vocational

Education Programs (4)(S) Competency, Knowledge of the principles, practices, functions, and roles of administration, in the operation of vocational education programs.

#### EVT 6760 Research in Vocational Education\*

Competency: Knowledge and skill in identifying, defining, collecting, analyzing, and synthesizing research-related problems in vocational and adult education.

#### EVT 6925 Graduate Workshop in Vocational Education (1-10)(APR) Competency: Selected competencies related to

Competency: Selected competencies related to professional and program areas.

## EVT 6930 Seminar in Vocational Education\* (2-4)(W)

Competency: The application of knowledge and skills to solve special instructional, curricular and/or administrative and supervisory problems and issues in vocational education.

#### EVT 6946 Supervised Field Experience (4-8)(APR)

Competency: Application and refinement of competencies in either classroom, laboratory, or administration, and supervision, via schoolbased field experiences. Placement is subject to approval of program advisor.

#### HES 4280 Occupational Safety and Health (OSHA) (5)(S)

Competency: Knowledge of the history, implications, and applications of the Occupational Safety and Health Act of 1970. For vocational and technical teachers, industrial employees, and management personnel.

#### \*Graduate Standing Required.

#### HEALTH OCCUPATIONS EDUCATION

#### EVT 4310 Planning and Operating HOE Programs (5)(F,S)

Competency: Identifying, designing, implementing and evaluating Health Occupations Education Program.

#### EVT 4311C Special Teaching Lab in HOE Programs (5)(W,S) Competency: Knowledge of institutional structure, organization, policies, and roles of school personnel with actual teaching experience in

#### EVT 4312 Instructional Strategies and Evaluation in HOE Programs

area of specialization.

(5)(W) Competency: Knowledge and skill in analyzing,

planning, developing, executing and evaluating classroom and laboratory teaching and learning activities in Health Occupations Education.

## EVT 4941 Student Teaching in Health . . . . Occupations Ed. Programs (5)(F.S)

Competency: Utilization of instructional knowledges, attitudes and skills in a variety of health occupations instructional situations. Pre-requisites: HOE 4310, 4311C, 4312.

#### EVT 5163 Occupational Analyses in Health Occupations and Nursing Education (4)(W,SS

Education (4)(W,SS) Competency: Analysis of current trends in area of health specialty and their application to teaching learning situations in health occupations education. Prerequisites: Currently teaching, permission of instructor, professional liability insurance.

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (4)(F,S) Competency: Knowledge and skills in methods of teaching, and clinical performance evaluation appropriate to the health field, and development of teaching materials. Prerequisites: Currently teaching, or permission of instructor.

#### BUSINESS TEACHER EDUCATION

#### BTE 3068 Principles of Business Education (5)(F,S)

Competency: A knowledge of basic philosophies, principles, practices, trends, and objectives in Business Education

#### BTE 4360 Special Teaching Lab: Business Education Non-Skills (5)(F.S)

Competency: Knowledge and application of instructional principles, methods, techniques and practices to the teaching of accounting, bookkeeping, and basic business and economic education courses. Prerequisites: BTE 3068 and professional education core concurrent with BTE 4494.

#### BTE 4364 Special Teaching Lab: Business Education Skills (5)(W,S)

Competency: Knowledge and application of instructional principles, methods, techniques and practices to the teaching for office careers to include office simulation and cooperative business education. Prerequisites: BTE 3068 and professional education core concurrent with BTE 4494.

#### BTE 4944 Special Teaching Lab: Business Education Practicum (2-5)(F,W,S)

Competency: Application of methods of teaching in business and office occupations in selected institutions and knowledge of educational institutions. Prerequisites: BTE 3068 and professional education core concurrent with BTE 4360 and BTE 4364.

#### BTE 4945 Student Teaching in Business Education (15)(W.S)

Competency: Competencies developed in the utilization of instructional knowledges, attitudes, and skills in business education instructional situations. Prerequisites: BTE 3068, 4360, 4364 and 4994; professional education core.

#### BTE 5371 Teaching in Business Education Occupational Programs (4)(SS)

Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate office education programs to include office simulation and cooperative business education.

#### BTE 5671 Problems, Issues and Trends in

Business Education (4)(S) Competency: Historical information, issues, current trends, new dimensions and problems

(4)

(4)

## **Vocational Education**

in business education. Prerequisite: Graduate standing.

#### BTE 5774 Teaching Basic Business &

Consumer Education (4)(SS) Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate basic business and consumer education programs. Prerequisite: Graduate Standing.

#### INDUSTRIAL ARTS EDUCATION

#### EIA 4042 The Role of Industrial Arts in the Schools (5)

Competency: Knowledge of the basic philosophy, goals, programs, principles, practices and learning environments in industrial arts, and the relationship of industrial arts to other school disciplines.

#### EIA 4360 Instruction in Industrial Arts

(5)(F,W) Competency: Application of education principles, practices, and techniques to the teaching of industrial arts. Prerequisite: EDG 3321.

#### ElA 4941C Student Teaching in Industrial Arts (15)(W,S)

Competency: The utilization of instructional knowledge, attitudes, and skills in industrial arts education instructional situations. Prerequisites: EIA 4360, EVT 3165C.

#### EIA 5811C Equipment and Facilities Planning

Competency: Utilization of research, design, and engineering knowledge and skills to plan laboratory facilities and equipment.

(4)(S)

(5)

EIA 5905 Individual Study (1-5)(APR)Competency: The ability to identify, research, and report on an industrial arts problem of interest to the student. Subject to approval of program adviser.

#### EIA 6931 Analysis of Industrial Arts Education (4)(W)

Competency: Knowledge of industrial arts at the national, state, and local levels.

## VOCATIONAL HOME ECONOMICS EDUCATION

#### HEE 3302 Home Economics Educational Planning

Competency: Development and adaptation of curriculum and strategies for the presentation of vocational home economics content in a variety of educational settings.

#### HEE 4104 Instruction in Vocational Home Economics (5)

Competency: Ability to apply educational principles, practices and techniques to teaching home economics in varied educational environments. Prerequisite: EDG 3321.

#### HEE 4941 Student Teaching in Home Economics Education (15)(F,S)

Competency: The utilization of instructional knowledges, attitudes, and skills in vocational home economics education instructional situations. Prerequisites: HEE 3301, HEE 4014, HEE 4944.

### HEE 4944 Special Teaching Laboratory

Home Economics (5)(W,S) Competency: Knowledge of the educational institution, and utilization of teaching skills, via mini-teaching experiences within areas of home economics in selected institutions. Prerequisites: EDG 3321, EDG 3322, HEE 3302, HEE 4104.

#### HEE 5335 Trends in Vocational Home

Economics Education (4)(F) Competency: Knowledge of current social, economic and educational issues affecting the field of vocational home economics. Subject to approval of program adviser.

#### \*HEE 5360 Teaching Child Development (5)

\*HEE 5361 Teaching Consumer Education and Family Economics (5)

\*HEE 5362 Teaching Clothing and Textiles (5)

\*HEE 5363 Teaching Family Life Education (5)

\*HEE 5364 Teaching Housing and Home Furnishings (5)

\*HEE 5365 Teaching Food and Nutrition (5)

HEE 5905 Individual Study (1-5)(F,W,S,SS)Competency: The ability to identify, research, and report on a special problem in vocational home economics. Subject to approval of program adviser.

#### HEE 5927 Special Workshop-Home

Economics (1-5) Competency: Skill in developing, organizing, teaching, evaluating, and administering programs related to specific aspects of the home economics education. Subject to approval of program adviser.

#### HEE 6126 Teaching Home Economics in the Secondary School (4)

Competency: Knowledge of current and evolving methods, programs, and materials to teach and evaluate home economics. Prerequisite: EVT 5168 or permission of instructor.

#### HEE 6551 Supervision of Student Teachers

in Home Economics (4) Competency: Skill in teaching, observing, and evaluating student teachers in vocational home economics.

#### HEE 6915 Research in Home Economics Education

Competency: The analysis and application of research pertaining to philosophy, curriculum, evaluations, and teacher education in home economics. Subject to approval of program advisor.

#### HEE 6937 Seminar in Home Economics Education

Competency: Application of selected instructional, curricular and/or administrative principles and practices to the solution of problems of special interest to vocational home economics educators. Subject to approval of program adviser.

\*Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational methods.

## School of Education

## Faculty

## School of Education

DeanJohn A. CarpenterChairpersonsRichard CampbellChildhood EducationRichard CampbellEducational Leadership and HumanHumanResources DevelopmentCharles Divita, Jr.Psycho-Educational ServicesWendy CheyneySubject SpecializationsJudith BluckerVocational EducationDominic Mohamed

### Faculty

- Alvarez, Carlos, M., Ph.D. (University of Florida), Associate Professor, Psycho-Educatianal Services, Co-Director, International Education Center
- Baum, Rosemere, Ph.D. (Pennsylvania State University), Assistant Professar, Vocational Education
- Bradley, Curtis H., Ed.D. (Temple University), Associate Professor, Vocational Education

Blucker, Judith A., Ph.D. (Florida State University), Chairperson and Associate Prafessor, Subject Specializations; Director, Academic Affairs Council

Campbell, Richard, Ed.D. (Indiana University), Chairperson and Associate Professor, Childhood Education

- Carpenter, John A., Ph.D. (University of Southern California), Dean, Schoal of Education; Professor, Educational Leadership and Human Resources Development
- Chadwick, Ida F., Ph.D. (Florida State University), Associate Professor, Health and Physical Education
- Cheyney, Wendy, Ed.D. (University of Miami), Chairperson and Associate Professor, Psycho-Education Services
- Crabtree, Myrna P., Ed.D. (Teachers College, Columbia University), Professor, Vocatianal Education

Dempsey, Arthur, Ed.D. (University of Arizona). Associate Professor, Childhood Education

Divita, Charles, Jr., Ph.D. (Flarida State University), Chairperson, Educational Leadership and Human Resources Development

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- Farrell, Robert V., Ph.D. (Teachers College, Columbia University), Associate Professor, Educational Leadership and Humon Resources Development
- Fisher, Allen, Ph.D. (University of Connecticut), Associate Professor, Educational Leadership and Human Resources Development

Gallagher, Paul D., Ph.D. (Florida State University), Associate Professor Educational Leadership and Human Resources Development

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Kampsnider, John J., Ph.D. (University of Utah), Associate Professor, Educational Leadership and Human Resources Develapment Kennedy, Daniel A., Ed.D. (University of Oregon), Associate Professor, Psycha-Educational Services

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McClintock, C. Edwin, Ed.D. (University of Georgia), Associate Professor, Mathematics Education

Margolin, Edythe, Ed.D. (University of California), Professor, Childhood Education

Martínez-Pérez, Luis A., Ph.D. (Florida State University), Associate Professor, Science Education; Directar, Title VII Bilingual Teacher Training Program and Multilingual Intercultural Education Center

Mathewson, Grover, Ph.D. (University of California at Berkeley), Associate Professor, Childhood Education

Mendoza, Alicia, Ed.D. (University of Miami), Assistant Professor, Childhood Education

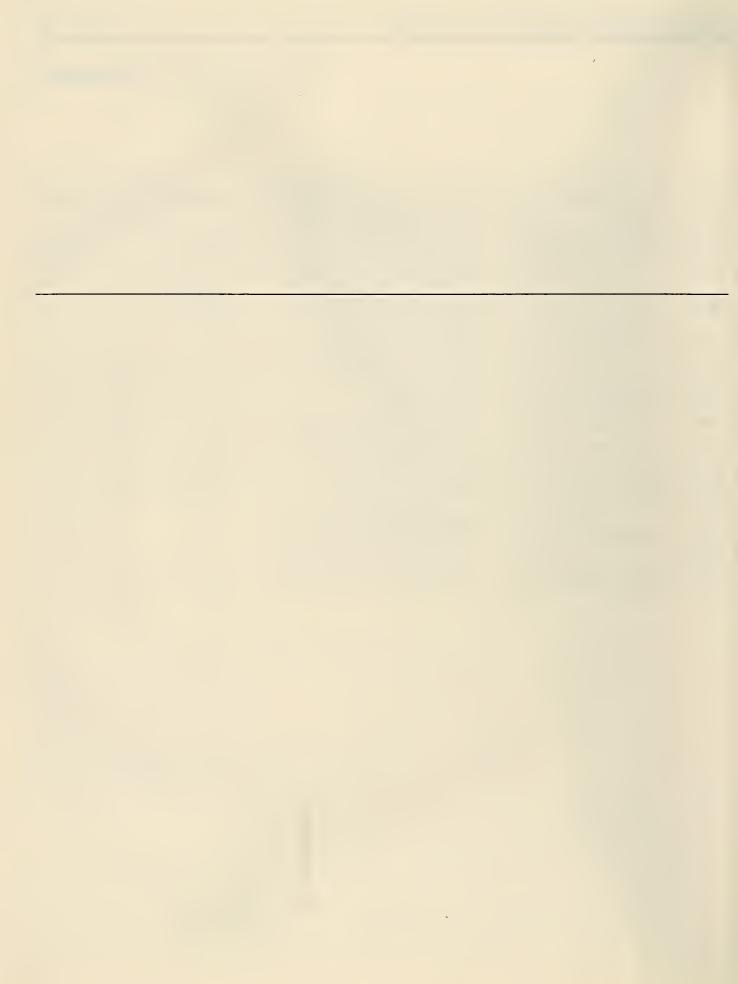
## **Florida International University**

## Faculty

- Mohamed, Dominic A., Ph.D. (University of Minnesota), Chairperson and Associate Professor, Vocational Education
- Morrison, George S., Ed.D. (University of Pittsburgh), Professor, Childhood Education
- Nathanson, David E., Ph.D. (University of Minnesota), Professor, Psycho-Educational Services; Director, Institute of Creative and Performing Arts for the Exceptional
- Oliva, Peter F., Ed.D. (Teachers College, Columbia University), Professor, Educational Leadership und Human Resources Development
- Pearson, George B., Ed.D. (University of Oregon), Professor, Health, Physical Education and Recreution
- Pell, Sarah W. J., Ed.D. (Duke University), Associate Professor, Educationol Leadership and Human Resources Development
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- Perry, Ronald W., Ed.D. (Louisiana State University), Assistant Professor, Parks and Recreation Management
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- Rembert, Emma W., Ed.D. (Syracuse University), Associate Professor, Childhood Education

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- Shostak, Robert, Ph.D. (University of Connecticut), Professor, English Education
- Smith, Donald C., Ph.D. (Syracuse University), Professor, Psycho-Educational Services
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- Stinson, John Jr., Ph.D. (University of Connecticut), Assistant Professor, Childhood Education
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- Testa, Robert F., Ph.D. (University of Miami), Associate Professor, Music Education; Director, Inservice Teacher Education
- Toomer, Jethro, Ph.D. (Temple University), Associate Professor, Psycho-Educationol Services; Director, Student Personnel Services
- Tucker, Jan L., Ph.D. (Indiana University), Professor, Social Studies Education; Co-Director, International Education Center
- Vanover, George W., Ed.D. (University of Tennessee), Associate Professor, Vocational Education
- Vigilante, Nicholas J., Ph.D. (Ohio State University), Professor, Childhood Education
- Wagner, Michael J., Ph.D. (Florido State University), Associate Professor, Music Education
- Wells, James D., Ed.D. (University of Florida), Associate Professor, Educational Leadership and Human Resources Development
- Wichowski, Chester P., Ed.D. (Pennsylvania State University). Assistant Professor, Vocational Education
- Woods, Sandra L., Ed.D. (Rutgers University), Assistant Professor, Psycho-Educational Services



Florida International University 1979–1980

Miami, Florida

# School of Hospitality Management

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## School of Hospitality Management

Gerald W. Lattin, Dean Anthony G. Marshall, Associate Dean and Professor William J. Morgan, Jr., Professor Norman Ringstrom, Professor Rocco Angelo, Associate Professor Michael Hurst, Professor Richard A. Huse, Associate Professor Charles Ilvento, Associate Professor Dennis A. Marzella, Associate Professor Leonard Berkowitz, Assistant Professor Percival Darby, Assistant Professor Robert Daun, Assistant Professor Fritz Hagenmeyer, Associate Professor Elisa Moncarz, Associate Professor Irving Sicherman, Associate Professor Peter Martini, Assistant Professor Steven Moll, Instructor Edwin B. Dean, Visiting Assistant Professor David Grier, Visiting Assistant Professor Kevin Robson, Assistant Professor Ted White, Assistant Professor Marshall Kosiner, Visiting Assistant Professor Donald Greenaway, Visiting Distinguished Professor Lendal Kotschevar, Visiting Distinguished Professor

Norman Hall, Assistant Professor

The School of Hospitality Management offers bachelor's and master's programs that combine practical experience with classroom theory to assist the student to gain the understandings, skills, and techniques needed to qualify for job opportunities, or to achieve his or her career goals in the growing hospitality industry.

With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, motels, restaurants, clubs, airlines, travel agencies and cruise lines as practice labs for students. The advanced phase of the internship program provides each student a structured and closely supervised management experience normally not available to a student until he or she has entered the industry after graduation.

An active Industry Advisory Board—which includes outstanding executives in the hotel. food and travel industries—works regularly with the faculty, staff and students of the School to formulate and update a curriculum that is current, flexible, and related to the needs of the hospitality industry.

The School has been designated a *Program of Distinction* by the Board of Regents.

### Admission

#### UNDERGRADUATE

Any student who has completed two years of college (60 semester hours, 90 quarter hours) may apply for admission. Full credit will be granted for both *Associate of Arts* and *Associate of Science* degrees. One may enroll on either a full-time or part-time basis.

It is not necessary to have been previously enrolled in a hotel or restaurant program. The curriculum will provide the specialized professional education to equip the student for a career in hospitality management. Students with training in liberal arts, business, éducation, or technology, for example, are qualified to enroll in the program.

#### GRADUATE

Each candidate for admission to the graduate program must present his or her score on the Graduate Record Examination or the GMAT and proof of a bachelor's degree from an accredited institution.

To be admitted, a candidate must have maintained a "B" average in all upper divisional work *or* attain a minimum score of 1000 on the Graduate Record Examination (verbal and quantitative aptitude sections) *or* attain a minimum score of 450 on the GMAT.

The exact amount of additional work will vary with the undergraduate background of the candidate, but will not exceed 40 quarter hours including the required managerial internship program. A maximum of 15 quarter hours of graduate credit may be transferred from any other university or from the graduate programs of this University.

Additional information on admission procedures may be found in the Admission section of the Catalog.

#### SPECIAL STUDENTS

A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a *Special Student* for a maximum of 10 credit hours per quarter.

## **Undergraduate Study**

Bachelor's degree programs are offered in general hospitality management; hotel and motel management; international hotel management; restaurant and food service management; tourism and travel management.

LOCATION: Tamiami Campus only

#### DEGREE: Bachelor of Science

#### LOWER DIVISION PREPARATION:

Students should complete a minimum of 60 semester hours (90 quarter hours) including general education requirements. If a student has completed a minimum of 27 quarter hours of general education credits, it is still possible to be accepted into this program. However, the remaining general education requirements need to be completed prior to graduation from Florida International University. Listed below are courses recommended to enter this upper-division major.

Recommended Courses:	Semester Hours
Accounting*	6
Psychology	3
Economics	3
Public Speaking	3

*Remarks:* \*Accounting is a prerequisite for taking course work in the accounting and finance areas. The student who has not taken this prerequisite will be required to take this course during his or her first year at the University. Other recommended electives will not be required as part of the B.S. program.

UPPER DIVISION PROGRAMS:

(Continued)

**Florida International University** 

# General Hospitality

### \*General Hospitality Management

Quarter Hours Required Courses: Management Accounting Finance & Information Systems HFT 3453 **Operations** Control for Hospitality Industry Management 5 HFT 3423 Hospitality Accounting Information Systems 5 or HFT 3413 Lodging Systems & Procedures 5 HFT 4464 Interpretation of Hospitality Financial Statements 5 **REE 4040** Intro. to Real Estate 5 HFT 4474 Profit Planning and Decision-Making in the Hospitality Industry · 5 Food and Beverage Management FSS 3221 Introductory **Commercial Service** Production FSS 3234 Volume Feeding Management 5 HFT 3263 Restaurant Management 5 FSS 3243 **Basic Meat Science** 5 **Administration** HFT 3603 Law as Related to the Hospitality Industry 5

\*For students interested in Club Management, we have developed a special program within the General Hospitality Management major. The requirements are listed below:

HFT 3945	Advanced Internship	
	in Hospitality	
	Management	5
HFT 3503	Marketing of	
	Hospitality Services	5
HFT 3323	Physical Plant	
	Management	5
HFT 3514	Advertising for	
	Hosp. Ind.	5
Electives.		

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### **Club Management Track**

	Quarter	· Hours
Accounting and Fi	inance	
HFT 3423	Hospitality	
	Accounting	
	Information Systems	5
HFT 4455	Functions of the	
	Hospitality	
	Comptroller	5
HFT 4464	Interpretation of	
	Hospitality Financial	
	Statement	5
HFT 4474	Profit Planning and	
	Decision-Making in	
	the Hospitality	
	Industry	5
Food and Beverag	e Management	
FSS 3221	Introductory	
	Commercial Food	
	Service Production	5
FSS 3234	Volume Feeding	
	Management	5
FSS 3243	Basic Meat Science	5
HFT 3263	Restaurant	
	Management	5

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Administration			
HFT 3434	Club Operations		
	Management	5	
HFT 3603	Law as Related to		
	the Hospitality		
	Industry	5	
HFT 3503	Marketing of		
	Hospitality Services	5	
HFT 3514	Advertising for the		
	Hospitality Industry	5	
HFT 3323	Physical Plant		
	Management	5	
HFT 3941	Internship in		
	Hospitality		
	Management	5	
HFT 3945	Advanced Internship		
	in Hospitality		
	Management	5	
ARC 4354C	Construction and		
	Design of Natural		
	Recreation Areas	5	
ORH 3220	Turf Grass		
	Management	5	
Electives			15

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SHM

### SHM 4

## School of Hospitality Management

## Hotel and Motel Management

## Hotel and Motel Management

	Quarte	r Hours
Required Courses.	: Management	
Accounting, Fir	nance & Information	
Systems		25
HFT 3453	Operations Control	
	for Hospitality	
	Industry	
	Management	5
HFT 3423	Hospitality	
	Accounting	
	Information Systems	5
or		
HFT 3413	Lodging Systems &	
	Procedures	5
HFT 4464	Interpretation of	
	Hospitality Financial	
	Statements	5
REE 4040	Intro. to Real Estate	5
HFT 4474	Profit Planning and	
	Decision-Making in	
	the Hospitality	
	Industry	5
E. I. I.D.		
Food and Beverage FSS 3221		20
F55 3221	Introductory	
	Commercial Food	-
TCC 2224	Service Production	5
FSS 3234	Volume Feeding	-
LIET 22(2	Management	5
HFT 3263	Restaurant	
	Management	5
FSS 3243	Basic Meat Science	5

Administration			30
HFT 3603	Law as Related to		
	the Hospitality		
	Industry	5	
HFT 3941	Internship in		
	Hospitality		
	Management	5	
HFT 3945	Advanced Internship		
	in Hospitality		
	Management	5	
HFT 3503	Marketing of		
	Hospitality Services	5	
HFT 4234	Union Management		
	Relations in the		
	Hospitality Industry	5	
HFT 3514	Advertising for the		
	Hospitality Industry	5	
Electives:			25

100

## Restaurant and Food Service Management

## Restaurant and Food Service Management

	Quarter	Hou	irs
Required Courses:			
	ance & Information		
Systems			15
HFT 3423	Hospitality		
	Accounting		
	Information Systems	5	
HFT 4464	Interpretation of		
	Hospitality Financial		
	Statements	5	
HFT 4474	Profit Planning and		
	Decision-Making in		
	the Hospitality		
	Industry	5	
	maistry	2	
Food and Beverag	e Management		25
FSS 3221	Introductory		
	Commercial Food		
	Service Production	5	
FSS 3234	Volume Feeding		
	Management	5	
HFT 3263	Restaurant	-	
	Management	5	
FSS 3243	Basic Meat Science	5	
FSS 4105	Purchasing and	2	
100 1105	Menu Planning	5	
	intenta i hanning		
Administration			35
HFT 3603	Law as Related to		
	the Hospitality		
	Industry	5	
HFT 3941	Internship in		
	Hospitality		
	Management	5	
HFT 3945	Advanced Internship		
	in Hospitality		
	Management	5	
HFT 3503	Marketing of		
	Hospitality Services	5	
HFT 3514	Advertising for		
	Hosp. Ind.	5	
HFT 3323	Physical Plant		
	Management	5	
HFT 4234	Union Management		
	Relations in the		
	Hospitality Industry	5	
Electives: (Five	hours must be taken in		
	S 3232 or FSS 4431)		25
			-

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## Florida International University

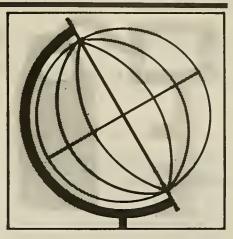
## International Hotel Management

## International Hotel Management

	Quarte	r Ha	our.
Required Courses	s: Management		
Accounting, Fi	nance & Information		
Systems			20
HFT 3453	Operations Control		
	for Hospitality		
	Industry		
	Management	5	
HFT 3423	Hospitality		
	Accounting		
•	Information Systems	5	
or			
HFT 3413	Lodging Systems &		
	Procedures	5	
HFT 4464	Interpretation of		
	Hospitality Industry		
	Financial Statements	5	
HFT 4474	Profit Planning and		
	Decision-Making in		
	the Hospitality		
	Industry	5	
Food and Bevera	ge Management		15
FSS 3221	Introductory		
	Commercial Food		
	Service Production	5	
FSS 3234	Volume Feeding		
	Management	5	
HFT 3263	Restaurant		
	Management	5	
	-		

Administration			35
HFT 3603	Law as Related to		
	the Hospitality		
	Industry	5	
HFT 3941	Internship in		
	Hospitality		
	Management	5	
HFT 3945	Advanced Internship		
	in Hospitality		
	Management	5	
HFT 3503	Marketing of		
	Hospitality Services	5	
HFT 3514	Advertising for		
	Hospitality Industry	5	
HFT 3323	Physical Plant		
	Management	5	
HFT 3713	International Travel		
	and Tourism	5	
Electives:			30

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### SHM 5

## SHM 6

## School of Hospitality Management

## Tourism and Travel Management

## **Tourism and Travel Management**

	Quarter	r Ha	ours
Required Courses.	: Management		
Accounting, Fir	ance & Information		
Systems	ar an		15
HFT 3423	Hospitality		
	Accounting		
	Information Systems	5	
or	-		
HFT 3413	Lodging Systems &		
	Procedures	5	
HFT 4465	Interpretation of		
	Travel and Tourism		
	Management		
	Financial Statements	5	
HFT 4474	Profit Planning and		
	Decision-Making in		
	the Hospitality		
	Industry	5	
Administration	·		25
HFT 3603	Law as Related to		
	the Hospitality		
	Industry	5	
HFT 3000	Introduction to	Ũ	
	Hospitality		
	Management	5	
HFT 3503	Marketing of		
	Hospitality Services	5	
HFT 3514	Advertising for	-	
	Hospitality Industry	5	
HFT 4234	Union Management	-	
	Relations in the		
	Hospitality Industry	5	
	1 )	-	

Travel and Touris	m Management		35
HFT 3700	Fundamentals of		
	Tourism	5	
HFT 3722	Retail Travel Agency		
	Management	5	
HFT 3753	Convention and		
	Trade Show		
	Management	5	
HFT 3713	International Travel		
	and Tourism	5	
HFT 3941	Internship in		
	Hospitality		
	Management	5	
HFT 3945	Advanced Internship		
	in Hospitality		
	Management	5	
GEA 3000	World Regional		
	Geography	5	
Electives: (Five	hours must be taken in		
	ansportation)		25
			100



## **Hotel and Food Service** Management

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### **Graduate Study Hotel and Food Service** Management

LOCATION: Tamiami Campus only DEGREE: Master of Science in Hotel and Food Service Management

	Quarte	er Hours
Requir	ed Core Courses:	30
HFT 6246	Organizational	
	Behavior in the	
	Hospitality Industry	5
HFT-6586	Research and	
	Statistical Methods	5
HFT 6477	Financial	
	Management for the	
	Hospitality Industry	5
HFT 6296	Seminar in	
	Hospitality	
	Management	5
HFT 6697	Hospitality Law	
	Seminar	5
HFT 6916	Hospitality Industry	
	Project	5
ectives: (5000 a	and 6000 level)	20
	,	

## **Course Descriptions**

#### **Definition of Prefixes**

FOS-Food Science; FSS-Food Service Systems; HFT-Hospitality, Food, Tourism.

#### **UNDERGRADUATE**

#### FOS 4201 Sanitation in Food Service Operation

The causes and prevention of food poisoning are stressed. Emphasis is placed on the current problems confronting the industry, with recent. food developments as they relate to sanitation. Curriculum developed by the National Sanitation Foundation is included.

#### FSS 3221 Introductory Commercial Food

Service Production (5)Provides an introduction to commercial food preparation, nutrition, standard product identification, storage and supervisory techniques in the area of food preparation. Course includes classroom instruction, demonstrations and actual cooking experience.

#### FSS 3232 Intermediate Quantity Food **Production** Techniques

(5)An advanced commercial food production course which provides the student with the opportunity to achieve competence and to develop techniques in the garnishing, pastry, serving, and convenience food areas. Prerequisite: FSS 3221 or equivalent.

FSS 3234 Volume Feeding Management The facilities of various types of large quantity food operations are utilized, to provide the student with both production and managerial experience. Students will be rotated through production stations and, as managers, will be required to plan menus, supervise preparation and service, handle customer relations and keep accurate accounting records on the profit and loss phases of the operation. Staffing, merchandising and cost control procedures are integral parts of the course. Prerequisite: FSS 3221 or equivalent.

#### FSS 3241 Classical Cuisine

(5)Provides an opportunity for students skilled in cookery to expand their knowledge of food preparation into the area of world-respected, traditional dishes. The course includes lecture, demonstration, and actual preparation of classical dishes. The students will utilize conventional methods of preparation as well as convenience foods. Prerequisite: FSS 3221.

FSS 3243 Basic Meat Science (5)Fundamentals of meat: quality yield, utilization of cuts, availability, costing, buying, inventorying, packaging, labor, and trends.

FSS 3272 Beverage Management An introduction to the identification, use and service of wines and other alcoholic beverages, with an in-depth analysis of the various elements of beverage operations including purchasing, control, merchandising, and bar management. Field trips are made to hotels and restaurants to demonstrate salient operating principles.

#### FSS 3273 Wine Technology,

Merchandising and Marketing (5) A course in the fundamentals of wine technology (vitaculture and vinification methods). The major types of wine and the factors influencing their quality; principles of sensory evaluation; wine merchandising and marketing.

FSS 4105 Purchasing and Menu Planning (5) Basic information on sources, grades and standards, criteria for selection, purchasing, and storage for the major foods, including the 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 4245 Advanced Meat Science (5)

An advanced course which considers the variable factors of meat, poultry and fish utilization. Emphasis is placed upon newer techniques in purchasing, maximizing yields, and providing products in unique form. The use of TVP and other analogs is considered, as are the functions of the specialized commissary-type of meat processing plants. Guest speakers will be utilized, and field trips to protein processing plants will be made, to emphasize major points. Prerequisite: FSS 3243.

#### FSS 4315 Institutional Food Service Management

(5)This course brings together basic management techniques and controls that are useful in the area of institutional feeding programs. Federal and state government regulations are studied. Special emphasis is given to hospital food service direction and the National School Lunch Program.

#### FSS 4333 In-Flight Food Service Management

An introduction to the concepts and managerial techniques specifically related to the inflight food service segment of the hospitality industry. Students will be exposed to a comprehensive study of contract purchasing, contract negotiations, system menu planning, volume food production, staff scheduling, industry pricing methods, product specification factors, client and employee relations, and security control systems; and familarized with specific and specialized food service equipment, equipment routing and balance, and transportation methods and procedures.

FSS 4431 Food Facility Layout and Design (5) Defines and explains concepts, principles and procedures in evaluating and/or developing varied commercial food service facilities that will increase profit by reducing investment and operating cost and/or by increasing capacity. Actual installations are intensively reviewed. Current trends in food service methodology and technology are studied in detail, and food service equipment manufacturing processes and distribution economics are observed and evaluated.

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## **Hospitality Management**

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#### FSS 4614 Food and Beverage Merchandising

This is an application of marketing and advertising principles to the specific area of food and beverage for hotels and restaurants.

#### FSS 5361 Advanced Food Service Operation

A senior course designed to coordinate the various management functions covered in previous courses into a comprehensive approach to profitable food service operations.

#### FSS 6365 Food Service Systems Principles of system analysis applied to the

food service industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

#### FSS 6452 Advanced Food Service Design Operations (5)

Advanced planning, programming and project documentation for commercial food service facilities. Spatial, environmental and electromechanical design factors are stressed, with particular emphasis on efficiency modulation and investment aspects. Recommended: HFT 3343 or FSS 4431.

FSS 6834 Food Service Research (5)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 3000 Introduction to Hospitality Management

A survey course providing an overview of the industry: its history, problems and general operating procedures. Operating executives from the fields of hotel, restaurant, food service, travel and tourism will be featured periodically.

#### HFT 3203 Fundamentals of Management in the Hospitality Industry (5)

A basic course in general management to acquaint the student with theories and principles of organization, the tools of managerial decision-making, and the management process, with particular reference to the hospitality industry.

#### HFT 3263 Restaurant Management

An analysis of the principal operating problems in the restaurant field. Procedures, approaches and techniques of management are explored and developed as they relate to the various categories of restaurants ranging from fast food to gourmet. Industry leaders will present successful concepts of restaurant operation.

#### HFT 3313 Hospitality Property Management

The problems of cost and operation of pest control, security, parking, general cleaning and upkeep, laundry, fire prevention, pools, tennis courts and care of guest rooms and public space, with emphasis on equipment, personnel. and modern innovations.

(5)HFT 3323 Physical Plant Management A comprehensive survey of engineering, maintenance and efficiency control in hotels, restaurants and institutions.

#### HFT 3343 Hotel and Restaurant Planning and Design

Considers analysis, evaluation and scheduling of the economic, technical, aesthetic and merchandising factors involved in the planning, programming and design stages of hotels and restaurants. Actual hotel and restaurant projects will serve as the basis for discussion and student project work.

#### HFT 3403 Introduction to Management Accounting for the Hospitality Industry

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(5)Introduction and practice in accounting processes, and the principles of hospitality management accounting. Prepares the student for work in advanced accounting and financial management. Required for students who have not completed an introductory accounting course.

#### HFT 3413 Lodging Systems and Procedures

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Detailed examination of the functions and procedures utilized in servicing the guest of a lodging establishment, contrasting traditional techniques and modern systems. Extensive use of the School's Mobydata minicomputer hospitality system to demonstrate "state-of-the-art" concepts. Prerequisite: HFT 3403.

#### HFT 3423 Hospitality Accounting Information Systems (5)

The study of an accounting system for hospitality operations within the context of the firm's overall information system. The flow of data from source inputs through financial statement preparation, with emphasis on computer assisted processing and reporting techniques. Students use the University computer for a case project. Prerequisite: HFT 3403.

HFT 3434 Club Operations Management (5) Lecture, discussion, case studies and field trips specifically designed to expose the future club manager, golf professional and turf manager to club operations. Introduction to the uniform system of accounts for clubs, annual club studies for operating results, control systems, taxation, budgeting and management reports.

#### HFT 3453 Operations Control for Hospitality Industry Management (5)

Study of the management tools available to control sales and expenses within hospitality operations. Detailed analysis of the responsibility centers using a cost managing approach. Case problems provide the students the opportunity to develop control systems for food and lodging organizations.

#### HFT 3503 Marketing of Hospitality Services

Application of marketing principles to business operations within the hospitality industry, with particular emphasis on viewing marketing as a competitive strategy in domestic and international markets.

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#### HFT 3514 Advertising for the Hospitality Industry

Consideration of all aspects of the advertising element of the promotion mix to execute the corporation's or tourist destination's marketing strategy. Prerequisite: HFT 3503.

#### HFT 3524 Sales Management for the Hospitality Industry

(5)The course focuses on organizing sales and servicing effort and executing marketing strategy by developing sales strategies, plans and tactics for hospitality corporations and tourist destinations. Special emphasis is placed on group markets and gaining travel retailer support for destinations, hotel corporations and cruiselines. The course may be followed by a sales management internship. Prerequisite: HFT 3503.

#### HFT 3603 Law as Related to the Hospitality Industry (5)

A basic course in hotel, motel and restaurant law. The student is introduced to the fundamental laws, rules and regulations applicable to the hospitality industry. The case study approach is used to develop an awareness and understanding of the legal problems confronting the executive in his policy and decision making role.

HFT 3700 Fundamentals of Tourism (5)An introduction to the broad fields of travel and tourism. Among the topics covered are cultural tourism, sociology of tourism, tourism components and supply, tourism development, the economic role of tourism demand, and the marketing of tourism.

## **Hospitality Management**

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#### HFT 3713 International Travel and Tourism

An introduction to the complete international scope of travel and tourism. A brief analysis of regional framework and specific regions of the world, the interrelationship between human society and the physical environment. Tourism as a factor in economic development and its cultural and sociological factors are explored. An analysis of the international organization of tourism and the facilitation procedures required for its successful implementation are highlighted.

#### HFT 3722 Retail Travel Agency Management

Management (5) An introduction to the basic operations aspect of travel agency management. The application of fundamental principles and successful practices in developing a satisfied clientele.

HFT 3727 Technical Agency Operations (5) Comprehensive, detailed course covering the technical procedures, practices and systems of day-to-day travel management, the counseling, sales and personal relationships with clients, hotels, tour agencies and transportation systems. Prerequisite: HFT 3722.

HFT 3733 Creative Tour Packaging (5) A thorough study of the functions of the wholesale tour operation. Includes tour operations and development, sales methods used in selling group business, costing and contracting of group business, and in-depth study of the promotional aspects of tour packaging.

#### HFT 3753 Convention and Trade Show Management

Management (5) A course concentrating on organizing, arranging and operating conventions, trade shows, and concessions. Emphasis will be placed on the modes and methods of sales used in booking conventions and trade shows, as well as the division of administrative responsibility in their operation.

HFT 3763 Passenger Traffic Management (5) A survey of land, water and air transportation from an integrated, intermodal frame covering organization, operations, financing, research, regulation, economics and certain social and political factors, as well as contributions made by each mode to the development of tourism.

HFT 3793 Sociology of Leisure (5) An introduction to the fundamental, psychological and sociological concepts and theories as they relate to the motivation behind travel and tourism. HFT 3900-3905 Independent Studies (VAR) With permission from the Chairperson of the Division of Hotel and Restaurant Services, or Division of Travel Services, students may engage in independent research projects and other approved phases of independent study.

#### HFT 3941 Internship in Hospitality Management

Management (5) Experience in all the major phases of hospitality operations. Reports are required.

#### HFT 3945 Advanced Internship in Hospitality Management (5)

Structured management experience in a specialized career in the hospitality industry. Programs include: food and beverage management, rooms division management, sales management, in-flight catering management, fast food service management and restaurant management. Structured management experience with an airline, a travel agency, a tour operator or a cruiseline. Report required.

#### HFT 4224 Human Relations in the Hospitality Field (5)

The problems faced by the supervisor and the executive in managing the human element in the hospitality field. Designed to give the student insight into the varied social and psychological factors present in any employeeemployer relationship.

#### HFT 4234 Union Management Relations in

the Hospitality Industry (5) A comprehensive course covering labor legislation, union history and the day-to-day administration of the labor contract. Emphasis is placed on collective bargaining and the business relationships between union and management.

#### HFT 4276 Resort Management (5) A course designed to focus on the unique problems of resort hotel management and the application of special techniques to meet these problems.

### HFT 4293 Restaurant Management

Seminar (5) By permission of instructor only. A senior course reviewing current problems and practices, developing policies and procedures and implementing same.

#### HFT 4444 Computer Systems for Hospitality Industry Management (5

Industry Management (5) A seminar on computer systems and their applications within the hospitality industry. Consideration is given to an understanding of the basic computer hardware and software concepts needed for a manager to communicate with data processing personnel. Prerequisite: HFT 3423.

#### HFT 4455 Functions of the Hospitality Industry Comptroller

Industry Comptroller (5) A specialized course designed for students desiring strong emphasis and training in the complex accounting and finance functions of hospitality industry management. Prerequisites: HFT 3423, HFT 3453

#### HFT 4464 Interpretation of Hospitality Industry Financial Statements

Industry Financial Statements (5) In-depth study of hospitality industry financial statements including consideration of the significant relationships between the various accounts found on financial reports. The statement of changes in financial position is studied, emphasizing funds as a means of payment. Major emphasis is placed upon trend analysis, ratio analysis and comparison analysis using hospitality industry annual studies. Prerequisites: HFT 3453, HFT 3423, HFT 3413.

#### HFT 4474 Profit Planning and Decision Making in the Hospitality Industry

Industry (5) Study of the decision-making process involved in the development of profit plans through analysis of hospitality industry studies. The establishment of short and long term goals and the means to reach these goals through profit plans. Emphasis on pricing decisions, responsibility centers, variance analysis, cost-volume profit analysis, capital budgeting and tax considerations. Prerequisites: HFT 4464.

#### HFT 4485 Seminar in Tax Planning for the Hospitality Industry (5)

Develops tax awareness and the ability to recognize the possible tax implications of business decisions. Tax considerations are studied for existing, expanding and planned hospitality operations. Included are compensation plans, pension and profit sharing plans, depreciation methods, acquisitions, mergers, liquidations, organization structure, accounting methods and capital gains and losses. Prerequisite: Permission of the instructor.

#### HFT 4494 Seminar in Hospitality Information Systems (5)

A study of the information systems utilized in hospitality operations to provide better management information for analysis and decisionmaking. Industry participants afford students the opportunity to study and evaluate their information system. This forms the basis for their course project. Research, case problems, class analysis and discussion. Prerequisite: Permission of the instructor.

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## **Hospitality Management**

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#### GRADUATE

#### HFT 5476 Feasibility Studies for the Hospitality Industry

A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field. Prerequisites or Corequisites: HFT 3503, HFT 4474.

#### HFT 5495 Seminar in Hospitality Industry Financial Management Systems (5)

Visits to various hospitality businesses for seminars with management team members. Lectures, demonstrations and discussion of each operation's methods and procedures, with emphasis on accounting and control systems. Prerequisite: Permission of the instructor.

HFT 5595 Problems in Marketing (5) Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator. Prerequisite: HFT 3503.

HFT 5901, 5906, 5911 Independent Studies (VAR)

With permission from the Chairperson of the Division of Hotel and Restaurant Services, or Division of Travel Services, students may engage in independent research projects and other approved phases of independent study.

HFT 6226 Motivation and Leadership (5) Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance.

#### HFT 6246 Organizational Behavior in the Hospitality Industry

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 (5) A consideration of the various environments within which the international hospitality firm operates. Organizational, financial and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature.

#### HFT 6286 The Organization and its Environment

A study of the hospitality industry as it is affected by its environment and in turn attempts to influence the various elements in this environment.

#### HFT 6296 Seminar in Hospitality Management

Attention is focused on major problems facing management in today's economy. Special emphasis is placed on the food service industry. Research of the current literature, class analysis and discussion.

#### HFT 6297 Seminar in Management Methods

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 6446 Hospitality Industry Organizational Information Systems (5)

Study of information systems in the hospitality industry. Consideration of the design and development of an information system based on user needs. Emphasis on identification and specification of user requirements and the selection of the appropriate design. Students work on a systems development project.

#### HFT 6456 Operations Control

Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotel or restaurant enterprises.

#### HFT 6477 Financial Management for the Hospitality Industry

A study of the principles of financial management and their application to the hospitality industry. Discussion and case studies are used to develop plans for meeting financial needs (short, intermediate and long term) from internal sources or capital markets. Attention is focused on capital budgeting, leasing, franchising, mergers, consolidations and current financial issues in the hospitality industry.

#### HFT 6486 Investment Analysis for the Hospitality Industry

Hospitality Industry (5) Advanced investment methods and opportunities with emphasis on securities of the bospitality industry, financing techniques, syndication, negotiations. HFT 6487 Taxation Federal and State

A study of state and federal taxation concepts, including tax management for individuals, partnerships, and corporations engaged in the hospitality field.

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#### HFT 6586 Research and Statistical Methods

A study of basic research methodology as applied to a variety of hospitality industry research projects. Techniques for data collection, and interpretation, and methods of reporting are considered.

HFT 6596 Marketing Management

Team-work analysis and recommended solution of an actual marketing problem which has been posed hy a local operator.

#### HFT 6697 Hospitality Law Seminar

New laws and their impact on the hospitality industry are examined. Students research and publish "industry alert bulletins," explaining the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603 or equivalent.

HFT 6916 Hospitality Industry Project (5) An individualized research project dealing with current problems in the hospitality industry. Topics and research methods must be approved by the graduate faculty before registration for the course.

#### HFT 6946 Graduate Internship

Structured graduate management experience in a specialized career in the hospitality industry. Programs include: food and beverage management, rooms division management, sales management, in-flight catering management, fast food service management and restaurant management. Prerequisite: Permission of the instructor.

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## **Florida International University**

## Faculty

### School of Hospitality Management

Dean Gerald W. Lattin Associate Dean, Chairperson of Hotel and Food Service Management Anthony G. Marshall

### Faculty

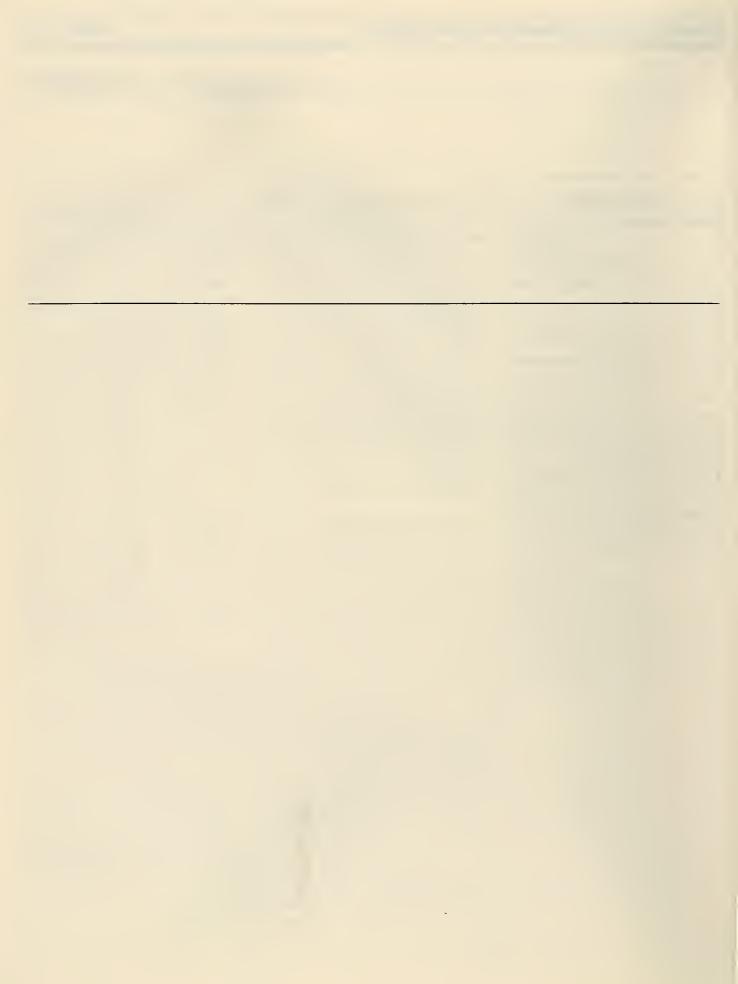
- Angelo, Rocco M., B.S. (Cornell University), Associate Professor, Management
- Berkowitz, Leonard, B.A. (University of Maine), Visiting Assistant Professor, Meat Sciences
- Darby, Percival, M.S. (Florida International University), Assistant Professor, Counseling and Placement
- Daun, Robert E., M.B.A. (Florida International University), Assistant Professor, Accounting
- Dean, Edwin, Visiting Assistant Professor, Union/Management Relations
- Greenaway, Donald, Ph.D., Washington State Grier, David R., Visiting Assistant Professor,
- Beverage Management
- Hagenmeyer, Fritz, G., M.A. (Cornell University), Associate Professor, Hotel Engineering Hall, Norman, M.S. (Rutgers University)

- Hurst, Michael E., M.A. (Michigan State University), Professor, Hotel and Restaurant Management
- Huse, Richard A., M.S. (Niagara University), Associate Professor, Travel and Tourism

Ilvento, Charles L., M.B.A., C.P.A. (Cornell University), Associate Professor, Accounting and Information Systems

- Kosiner, Marshall S., Visiting Assistant Professor, Tourism
- Kotschevar, Lendal, Ph.D., (Columbia University)
- Lattin, Gerald W., Ph.D. (Cornell University), Dean, School of Hospitality Management, Professor, Management
- Marshall, Anthony G., J.D. (Syracuse University), Associate Dean, School of Hospitality Management, Professor, Law and Finance
- Martini, Peter C., M.S. (Florida International University), Assistant Professor, Food Management

- Marzella, Dennis A., M.B.A. (Michigun State University), Associate Professor, Marketing
- Moll, Steven V., M.S. (Florida International University), Instructor, Accounting
- Moncarz, Elisa, B.B.A., C.P.A. (Bernard/ Baruch College, City U. of New York), Associate Professor, Accounting and Information Systems
- Morgan, William J., Jr., Ph.D. (Cornell University), Professor, Hotel and Restaurant Management
- Ringstrom, Norman H., Ph.D. (State University of Iowa), Professor, Hotel Management
- Sicherman, Irving, M.S., C.P.A. (Columbia University), Associate Professor, Accounting
- White, Theodore, Assistant Professor, Club Management



Miami, Florida

# School of Public Affairs and Services



### PAS 2

## School of Public Affairs and Services

## School of Public Affairs and Services

The School of Public Affairs and Services offers programs of professional study which provide academic and applied courses for students interested in public and non-profit organizational needs, management and research. Emphasis is placed on achieving a comprehensive, developmental and community oriented understanding of problems, issues, alternatives and needs of an urban society faced with rapidly changing social, political, economic and cultural conditions.

The departments of the School of Public Affairs and Services are: Criminal Justice, Health Services Administration, Public Administration and Social Work. Each of these Departments offers the baccalaurate degree, and a masters degree is offered by the Departments of Criminal Justice, Public Administration and Health Services Administration. A Master of Social Work degree is in the planning stages.

I. ADMISSION REQUIREMENTS

UNDERGRADUATE AND GRADU-ATE

Policies on admissions and prerequisites for the graduate and undergraduate programs are described in the appropriate departmental sections of this catalog.

II. ADVISEMENT

Each student is assigned a faculty advisor upon being admitted to a program and together the student and the advisor plan the student's program of study. Students needing pre-advisement should contact the specific department.

III. CLINICAL AND FIELD EXPER-IENCES

> As an integral part of the program curriculum, the student may be provided supervised learning experiences in community service agencies. The clinical and field work experience is one of orientation, observation and practice in the particular programs specialty of public affairs and is structured concurrently with relevant classroom experiences. Numerous community organizations provide opportunities for student internships and field practices.

#### IV. EXTERNAL DEGREE PROGRAM

The External Degree program is a selfdirected, non-campus residential program for residents of Florida. The program enables the student to take advantage of all educational resources throughout Florida, without requiring his or her residence on any campus. On admission, the student's previous academic training and life experiences are summarized and individual study plans are designed for each student in the form of an educational contract. Not all departments offer the external degree option and each should be contacted for further information.

- V. CONTINUING EDUCATION AND SPECIAL PROGRAMS The School of Public Affairs and Services, in cooperation with the Division of Continuing Education, offers many credit, non-credit and workshop courses in Off-Campus locations in Dade, Broward and Monroe Counties. Courses and locations vary quarterly and the departments should be contacted for specific offerings.
   VI. GRADING SYSTEMS
- Course work in the School of Public Affairs and Services is generally graded on the letter system: A, B, C, D or F. Certain clinical or field experience program courses award a grade of CR (Credit) or NC (No Credit). A grade of IN (Incomplete) may be awarded at the discretion of the instructor with specific time limitation imposed on the completion of the required work. Individual programs may have specific requirements regarding grades earned in required program of study courses. Undergraduate students must achieve an overall grade point average of 2.0 in order to graduate. Graduate students must maintain a grade point average of 3.0 in order to graduate.

### **Criminal Justice**

Robert Snow, Associate Professor, Chairperson Harcourt Clark, Assistant Professor Robert Clark, Professor Ralph Lewis, Associate Professor Jose Marques, Associate Professor Regina Shearn Perry, Associate Professor Luis Salas, Assistant Professor Ronald Schneider, Assistant Professor Jack Tuckfield, Assistant Professor William Wilbanks, Associate Professor

Criminal Justice is an area of study dealing with the formal mechanisms of social control by which our society exercises constraint over its members. The study of criminal justice is an interdisciplinary one; i.e., it involves law and the social/behavioral sciences. It is concerned with the primary means of social control-the law. It involves the study of crime, the reaction of society to this major social issue, and the instrumentalities utilized in treating the problem. Heavily intertwined throughout the entire approach is the pervading issue of social justice.

A wide variety of career opportunities are available in criminal justice at all levels of gov-



ernment. Due to its interdisciplinary approach, the study of criminal justice fills the needs of students seeking careers in teaching, research, law, and the various criminal justice occupations.

LOCATION: North Miami Campus

Courses may be offered on the Tamiami Campus or other locations.

DEGREE: Bachelor of Science in Criminal Justice

#### LOWER DIVISION PREPARATION:

#### Required Courses: None

*Remarks:* The student majoring in Criminal Justice should consult with an academic advisor to ensure that the actual courses selected (1) meet program and degree requirements, and (2) are consistent with the individual's long range academic and career objectives.

Recommended Courses: 1. The student intending to enroll in the Criminal Justice program is urged to complete an Associate of Arts degree at the lower division. An entering student is not required to have been enrolled in a pre-criminal justice program. A student having an Associate of Science degree or 90 quarter hours will also be accepted, but must complete general education requirements before the bachelor's degree can be awarded.

#### UPPER DIVISION PROGRAM:

*Core Courses:* Six courses are required for every student in Criminal Justice. A core course requirement can only be waived by the Chairperson with the recommendation of the student's faculty advisor.

The core courses are:

CCJ 3020	Overview of Criminal		
	Justice Systems	5	
CCJ 3100	Law Enforcement		
	Systems	5	
CCJ 3290	Judicial Policy Making	5	
CCJ 3300	Correctional		
	Philosophy	5	
CCJ 3600	Nature and Causes of		
	Crime	5	
CCJ 3700	Methods of Criminal		
	Justice Research	5	

Area of Interest: See explanation below120Specific Electives: See explanation below215General Electives: See explanation below325

<sup>1</sup> Area of interest: 20 quarter hours at the 3000 level or above in criminal justice are required (Continued)

(5)

## **Criminal Justice**

for criminal justice majors. Only 10 quarter hours of CCJ 4940 will count toward this requirement.

<sup>2</sup> Specific electives: 15 quarter hours at the 3000 level are required in sociology-anthropology, social work, psychology, political science, computer science or statistics. Any combination of these courses is acceptable.

<sup>3</sup> General electives: 25 quarter hours are required. No more than 15 hours can be criminal justice courses. Relevancy of elective courses will be determined in consultation with the student's advisor or the Chairperson. The faculty retains the prerogative to accept or reject electives taken without approval. *Remarks:* 

(1) Independent study and directed readings courses may not be taken outside of the Criminal Justice Department except with written permission of the Criminal Justice Chairperson. (2) Course work from disciplines outside of Criminal Justice will not be accepted to fulfill requirements in the Criminal Justice area of interest category.

(3) Students are required to maintain a minimum G.P.A. of 2.0 in the CCJ Area of Interest and Core Courses.

### **Program Honors:**

Students may qualify for program honors if they meet the University academic honors requirements and have a GPA of 3.5 in their criminal justice courses. Students may qualify for program high honors if they meet University honors requirements for high honors, have a GPA of 3.75 in the criminal justice courses, and orally present a paper from CCJ 4910 to a faculty committee. Any student applying for these awards must take all of his/her criminal justice courses at FIU. Those applying for program honors must complete an application before the end of the second week of the quarter in which graduation is expected. Candidates for high honors must complete an application by the end of the third week of the second quarter before graduation.

The CCJ 4910 paper must be completed by the end of the second quarter prior to graduation. This means that CCJ 4910 cannot be taken the last quarter if it is to be used for the purposes of obtaining high honors.

Anyone intending to apply for high honors must interest a designated faculty member in accepting him/her as an enrollee in CCJ 4910 for this purpose. An Approval Form for Independent Study can be obtained from the program office by a candidate before requesting consideration as a prospective high honors student.

## **Transfer Credit**

A student transferring from a four year college may transfer up to 130 quarter hours into the Criminal Justice Program; however, the student must still have 90 quarter hours at the 3000 level or above. All work transferred to FIU is subject to review and approval by the Criminal Justice Chairperson. Criminal Justice courses completed with a grade of "D" will not be transferred.

## **Double Majors and Degrees**

Students must complete the core courses (30 hours) plus 20 additional hours in Criminal Justice in order to:

1) Satisfy Criminal Justice requirements for a double major

2) Obtain a second degree with a major in Criminal Justice

3) Obtain two baccalaureate degrees simultaneously (provided requirements for two majors have been completed as certified by the appropriate academic units, and a minimum of 45 appropriate quarter hours beyond the requirements of one degree have been earned).

#### CRIMINALISTICS-CHEMISTRY PROGRAM

Criminalistics-Chemistry Core Requirements: Same as requirements for a bachelor's degree in chemistry. (Degree granted by Department of Physical Sciences).

Chemistry Electives: If the student chooses the BA degree in Chemistry, he/she should elect at least one of the following:

CHM 4490 Advanced

Spectroscopy and Molecular Structure CHM 4130, 4130L Modern

#### Analytical Chemistry

5

Internship: A 5-10 credit internship in the laboratory of a participating criminal justice agency.

Criminal Justice Coursework: The student should elect 15 credits of criminal justice courses in consultation with an advisor in the Department of Criminal Justice.

*Electives:* Coursework in the behavioral and political sciences, as well as upper division coursework in the biological sciences, is recommended to total 90 quarter hours.

## **Course Descriptions**

Definition of Prefixes CCJ-Criminology and Criminal Justice. CRIMINAL JUSTICE CORE COURSES

#### CCJ 3020 An Overview of Criminal Justice Systems

A survey of the agencies and processes involved in the administration of justice. Interrelationships and functions of the legislature, police, prosecutor, defender, courts, and corrections are examined.

CCJ 3100 Law Enforcement Systems (5) A conceptual study of the American police system.

CCJ 3290 Judicial Policy Making (5) An analysis of judicial systems and their legal, social and political environments. Interrelationships between the prosecutorial and other criminal justice substructures will be examined.

#### CCJ 3300 Correctional Philosophy, Theory and Practice

and Practice (5) Appraisal of correctional methods utilized in the United States and other countries. Prisons, probation, parole, work-release programs, halfway houses, community-based correction programs and other techniques are analyzed.

CCJ 3600 The Nature and Causes of Crime (5) Social cultural, behavioral, political and economic causitive factors in the development of crime. Psychological and sociological considerations involved in criminal behavior. The role of the legislature as policy maker in criminalizing conduct, and the limits of the criminal sanction.

#### CCJ 3700 Methods of Criminal Justice Research

Research (5) Elements of scientific perspective, interaction of research theory and practice. Research design, data collection, analytic and statistical techniques, use of data processing resources, and preparation of research reports.

#### ELECTIVES

CCJ 3271 Criminal Procedure (5) An in-depth study of the 4th through 8th Amendments of the Constitution, and their impact on the criminal justice process.

CCJ 3291 Judicial Administration-Criminal (5) Study of the rules of criminal procedure and evidence affecting the responsibilities of court administrators. Administrative relationships of courts with agencies involved in the criminal justice system will be examined.

CCJ 3320 Community Based Treatment (5) An examination of the various pre-trial and post-trial community based treatment programs. A special emphasis will be placed on the impact these programs have upon the criminal justice system and the clients they serve.

## **Criminal Justice**

(5)

(5)

(5)

(5)

#### CCJ 3340 Correctional Counseling

A course designed to explore the nature and function of counseling within the correctional setting.

CCJ 3341 Correctional Treatment (5) A concentrated study of the various institutionbased treatment programs. Emphasis is on the impact and operational aspects of these programs.

#### CCJ 3450 Institutional Organization and Administration

Administration (5) Analysis of internal organizational structure and executive roles and functions in criminal justice agencies. Examines administrative and managerial concepts underlying decision making, policy formulation, operational strategies, and coordination and control procedures. Cases and outside research reports are used for specific analysis.

#### CCJ 3460 Management of Human Resources

Analysis of criminal justice manpower input problems-recruitment, selection, placement, training, development and control at all levels. Emphasis is on policy issues, research findings, and advanced techniques.

#### CCJ 3461 Developing Interpersonal Communication

The emphasis of this course is on the development of interpersonal communication practices that can be effectively utilized in a helping role and on the job, to improve interaction among employees and between the employees and the public.

CCJ 3470 Criminal Justice Planning (5) Planning methods applicable to criminal justice agencies are examined. Emphasis is on planning as a decision making process for criminal justice agencies. Theories, techniques, and applications studied.

#### CCJ 3530 Delinquency Prevention and Control

Social dimensions of juvenile delinquency, its nature, scope and distribution. Comparison and analysis of agencies of control and prevention.

#### CCJ 3934 Contemporary Issues in Criminal Justice (5)

An extensive examination of selected contemporary issues in criminal justice. May be repeated.

#### CCJ 3949 Cooperative Education in Criminal Justice (5)

Supervised full time work quarter for criminal justice academic majors who demonstrate their interest in and potential for developing practical field agencies experience. Limited to students admitted to Co-op program with consent of advisor. Prerequisite: third quarter academic standing.

#### CCJ 4130 Police-Community Relations (5) A study of the concept of police-community relations, emphasizing the police role in community tension and conflict.

#### CCJ 4250 Criminal Justice and the

Constitution (5) A study of constitutional issues as they relate to the administration of criminal justice.

CCJ 4280 Law and Criminal Justice (5) The resolution of criminal justice problems through the application of the law. The nature, sanctions, and limits of law. Categories of law and schools of jurisprudence.

CCJ 4281 Legal Aspects of Corrections (5) This course addresses the investigation of legal problems of prisoners, from conviction to release. Emphasis will be placed on the legal problems involved in presentence investigations, sentencing, probation, parole, incarceration, and loss and restoration of civil liberties.

CCJ 4330 Probation and Parole (5) An examination of the treatment of convicted law violators by the correctional field services, before and after prison.

CCJ 4400 Methods of Institutional Change (5) Analysis of evolutionary and revolutionary changes in political institutions and agencies. Means, methods and techniques for initiating and implementing meaningful change within the criminal justice system.

#### CCJ 4440 Administration of Correctional Institutions

Theories and techniques of administering correctional institutions, treatment, security, and custody. Social structure of the prison community and inmate social systems. Case studies.

(5)

CCJ 4462 Human Relations Training (5) An experience based course that will prepare selected students to present human relations training programs in criminal justice agencies.

#### CCJ 4630 Comparative Criminal Justice Systems (5)

A critical comparative study of various American criminal justice subsystems with those of selected industrialized foreign countries, including discussion of administration, organization, objectives, principal functions, and levels of control.

#### CCJ 4661 Terrorism and Violence in Criminal Justice (5)

An analysis of terrorism and violence in criminal justice. Law and other control mechanisms will be examined.

#### CCJ 4662 Criminal Justice and the Minority Community (5)

A general survey of the institutions of justice in the United States, and their contacts with minority people. The focal point of this course will be the role of racial/ethnic minorities in the criminal justice system.

#### CCJ 4663 Women, Crime and the Criminal Justice System (5)

Women as deviants, criminals, victims and professionals in the criminal justice system.

#### CCJ 4900 Directed Readings in Criminal Justice (2)

Extensive reading and analysis of selected literature under faculty supervision. Permission of instructor and Program Chairperson required. Two credits per quarter with a 5 credit maximum.

CCJ 4910 Independent Research (1-5)A course designed to provide qualified students with the opportunity to perform meaningful research in areas of criminal justice under the direction of a faculty member. Permission of the instructor required. (10 credit maximum)

#### CCJ 4940 Field Work and Special Projects

Projects (1-15) A course designed to broaden the experiential base, application of theoretical content to criminal justice. Advisor's approval required. (Credit. No credit grading)

#### CCJ 4949 Cooperative Education in Criminal Justice (5)

Supervised full time work quarter for criminal justice academic majors who demonstrate their interest in and potential for developing practical field agencies experience. Limited to students admitted to Co-op Program with consent of advisor. Prerequisite: Senior academic standing.

### Criminal Justice Graduate Program

The Master of Science degree program in Criminal Justice is a professional program designed to prepare students for management responsibilities in the criminal justice sector or public sector related activities.

The objectives of the master's program are:

1. To provide present and future criminal justice managers with the skills needed to function effectively in our ever-changing society.

2. To serve as a catalyst for interdisciplinary research and study of criminal justice and related problems.

3. To provide the criminal justice system with qualified students for academic careers in (Continued)

## **Criminal Justice**

administration, planning and analysis, and teaching in colleges and universities.

The minimum academic requirement for admission to the criminal justice master's program is graduation from an accredited baccalaureate program. Although it is helpful, students need not have had any formal coursework in criminal justice. Competent students from any major field of study are eligible for admission. After initial counseling, a determination will be made regarding any need for remedial course work.

Students having a bachelor's degree from an accredited institution and a "B" average or above for the last two years of undergraduate work, and a total score of 1000 on the Graduate Record Examination are eligible for unconditional admission to the program. Provisions can be made for admittance as Special Students until admissions criteria have been satisfied. Under certain circumstances, exceptions to these standards can be made.

LOCATION: Tamiami and North Miami Campuses.

DEGREE: Master of Science in Criminal Justice

A. Degree Credit Requirements

The master's degree in criminal justice requires sixty (60) quarter hours of credit. A maximum of ten (10) quarter hours may be transferred into the program from other accredited institutions, subject to the approval of the Graduate Admissions Committee. Candidates have the option of two programs of study, i.e., the thesis and nonthesis options. Those selecting the thesis option are required to complete 50 quarter hours of course work and 10 quarter hours of thesis. The non-thesis option consists of 60 quarter hours of course work and comprehensive written and oral examinations. All candidates must take five core seminars. **B.** Specific Program Requirements Are:

All course work taken in residence must be taken in the Criminal Justice Graduate Program, except that with the permission of the Graduate Admissions Committee, a total of not more than ten (10) quarter hours may be taken in any other relevant graduate program in this University.

		Quarter	
		Hours	
Core Courses:		25	
CCJ 6055	Seminar in		
	Criminal Justice	5	
CCJ 6476	Criminal Justice		
	Planning	5	
CCJ 6477	Information		
	Systems for		
	Criminal Justice	5	

CCJ 6706	Applied		
	Statistical		
	Techniques for		
	Criminal Justice	5	
CCJ 6709	Advanced	2	
CCJ 0709			
	Research	-	
	Methods	5	
CCJ 6971	Thesis Research	5	
CCJ 6976	Masters Thesis	5	
Administrative	Concentration:		15 or 20
CCJ 6456	Administration		
	and		
	Management of		
	Criminal Justice		
	Agencies		
CCJ 6457	Organizational		
CC3 0437	Development in		
	Criminal Justice		
0.01 ( ) (7	Agencies		
CCJ 6467	Human		
	Resources		
	Management in		
	Criminal Justice		
CCJ 6485	Politics and		
	Criminal Justice		
CCJ 6486	Labor Relations		
	in the Criminal		
	Justice Sector		
CCJ 6716	Productivity and		
CC3 0/10	Program		
	Tiogram		
	Evaluation		
Const Elouis	Evaluation		10 or 20
General Electiv	ves:		10 or 20
General Electiv CCJ 5056	ves: History and		10 or 20
	es: History and Philosophy of		10 or 20
CCJ 5056	ves: History and Philosophy of Criminal Justice		10 or 20
	History and Philosophy of Criminal Justice Ethics of		10 or 20
CCJ 5056	History and Philosophy of Criminal Justice Ethics of Criminal Justice		10 or 20
CCJ 5056	History and Philosophy of Criminal Justice Ethics of		10 or 20
CCJ 5056 CCJ 5057	History and Philosophy of Criminal Justice Ethics of Criminal Justice		10 or 20
CCJ 5056 CCJ 5057	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495	History and Philosophy of Criminal Justice Ethics of Criminal Justice Ethics of Criminology Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice Seminar in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525	History and Philosophy of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525	History and Philosophy of Criminal Justice Ethics of Criminal Justice Ethics of Criminology Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice Seminar in		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525 CCJ 6635	History and Philosophy of Criminal Justice Ethics of Criminal Justice Ethics of Criminal Justice Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice Seminar in Comparative		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525	History and Philosophy of Criminal Justice Ethics of Criminal Justice Ethics of Criminology Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice Seminar in Comparative Criminal Justice		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525 CCJ 6635	History and Philosophy of Criminal Justice Ethics of Criminal Justice Ethics of Criminology Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice Seminar in Comparative Criminal Justice Seminar in Victimology		10 or 20
CCJ 5056 CCJ 5057 CCJ 6050 CCJ 6105 CCJ 6285 CCJ 6365 CCJ 6468 CCJ 6495 CCJ 6525 CCJ 6635	History and Philosophy of Criminal Justice Ethics of Criminal Justice Ethics of Criminology Seminar in Criminology Seminar in Law Enforcement Seminar in the Concept of Justice Seminar in Corrections Intergroup Relations in Criminal Justice Seminar in Court Administration Seminar in Juvenile Justice Seminar in Comparative Criminal Justice		10 or 20

	Human
	Evaluation by
	Criminal
	Justice Agencies
CCJ 6945	Field Experience
	in Criminal
	Justice
	Total 60
Additional Proc	edures:
All students w	vill select a committee of three
graduate facult	ty members, the student's major
aculty advisor	being a member and Chairper-
on of this con	nmittee. The major advisor and
committee wil	l be responsible for overseeing
he student's v	work while in the master's pro-
gram. Admissi	on to the program should not be
-	dmission to candidacy for a de-
	may apply for candidacy upon
	25 quarter hours (including 2 of
	urses). Admission to candidacy
	pleted before the student enrolls
for the last 20	
	Requirements:
	the master's degree in Criminal
	tudent must satisfy all University
	governing graduate study. Stu-
	e thesis track must be admitted to
	and complete the 5 core courses.
	rative electives, 2 general elec-
	he thesis. The student may be re-
	indergo an oral discussion of the

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quired to undergo an oral discussion of the thesis. Students in the non-thesis track must be admitted to candidacy and complete the 5 core courses, 4 administrative electives, 3 general electives, and a written and oral comprehensive examination.

## Master of Science in Criminal Justice

Definition of Prefixes CCJ-Criminology and Criminal Justice

## **Core Courses**

#### CCJ 6055 Seminar in the Criminal Justice Systems

Advanced study of problems, trends and critical issues involved in the administration of criminal law as a means of social control. Emphasis is on systematic relationships and systems theory building.

#### CCJ 6476 Comprehensive Criminal Justice

Planning (5) The planning environment of criminal justice is examined. Emphasis is on the role and methods of managing and organizing the planning pro-

(Continued)

(5)

## **Criminal Justice**

cess applicable to systematizing criminal justice. Case studies are developed.

#### CCJ 6477 Information Systems for Criminal Justice (5)

An advanced seminar in the survey and application of electronic data of use to the criminal justice sector. Prerequisite: COC 3300 or permission of Instructor.

#### CCJ 6706 Applied Statistical Techniques for Criminal Justice (5)

Statistical tools applicable to criminal justice research are examined. Emphasis is on developing an understanding of the various techniques and their applications. The use of computerized statistical packages will be presented. Prerequisites: STA 3122 and STA 3123 or permission of Instructor.

CCJ 6709 Advanced Research Methods (5) The focus of this course is on the presentation and discussion of research methodology of primary interest to criminal justice students. Emphasis is placed on preparation for thesis research, the requirements for proposal preparation and final thesis report.

CCJ	6971	Thesis Research	(5)
CCJ	6976	Masters Thesis	(5)

#### ELECTIVES

#### CCJ 5056 History and Philosophy of Criminal Justice (5)

The historical and philosophical background of criminal justice is presented as a foundation for analysis and theory. The historical presence of peacekeeping and order-maintenance in all groups is researched. The nature and impact of philosophical comment on criminal justice is evaluated. No prerequisites.

CCJ 5057 Ethics of Criminal Justice (5) An examination of the principles supporting various formal statements of appropriate standards of conduct for professionals in criminal justice. Each of the major subdivisions of criminal justice is examined as to ethical and moral judgments, past and present. Prerequisites: Admission to the Graduate Program of Criminal Justice or, for undergraduate students, permission of the instructor.

CCJ 6050 Seminar in Criminology (5) A critical study of selected theoretical and research issues related to the nature and causes of crime. Special topics are announced at the beginning of each quarter. May be repeated.

CCJ 6105 Seminar in Law Enforcement (5) An analysis of current major hypotheses and problems in law enforcement. Special topics announced at the beginning of each quarter. May be repeated.

#### CCJ 6285 The Concept of Justice

A study of philosophical and utilitarian approaches to the definition of justice, and the varied translations of the concepts of justice into concrete action.

CCJ 6365 Seminar in Corrections (5) An analysis of current major hypothesis and problems in corrections. Special topics announced at the beginning of each quarter. May be repeated.

#### CCJ 6456 Administration & Management of Criminal Justice Agencies (5)

An examination of the criminal justice system from the perspective of administrative and management problems. Emphasis is on the identification of solution alternatives for those problems having the most significant impact on the components of the criminal justice system.

#### CCJ 6457 Organizational Development in

Criminal Justice Agencies (5) A course designed to familiarize students with the organizational development methodologies that have relevance to the management of change within criminal justice agencies. Special attention will be given to case studies of the various methodologies utilized by criminal justice agencies.

#### CCJ 6467 Human Resources Management in Criminal Justice (5

A study of the various employment practices within criminal justice agencies and the impact of these practices on the development of the criminal justice system.

#### CCJ 6468 Intergroup Relations in Criminal Justice (5)

A study of theories, strategies and tactics employed in intergroup relations in criminal justice. Attention is given to increasing the student's awareness and sensitivity to the dynamic forces within intergroup relations, as a means of increasing his or her productivity as a criminal justice practitioner.

CCJ 6485 Politics and Criminal Justice (5) An analysis of the various criminal justice subsystems as they interrelate with the political system, political feasibility, community control, and social and economic policy.

#### CCJ 6486 Labor Relations in the Criminal Justice Sector (5)

An examination of the area of collective bargaining for public employees. Special emphasis is placed on the current status of labor relations law and its impact on the criminal justice system.

#### CCJ 6495 Seminar in Judicial

Administration (5) An analysis of current major hypotheses and problems in judicial administration. Special topics announced at the beginning of each quarter. May be repeated.

CCJ 6525 Seminar in Juvenile Justice (5) Philosophy and procedures of the juvenile courts. Discussion of dependency, delinquency, and family law. Evaluation of juvenile court practices.

#### CCJ 6635-Seminar in Comparative Criminal Justice Systems (5)

A comparative study of the various criminal justice systems in the United States with similar governmental and social systems in other countries.

CCJ 6665 Seminar in Victimology (5) An in-depth study of the criminal victim relationship.

#### CCJ 6716 Productivity and Program Evaluation

(5) involved in

(5)

(5)

A systematic review of the problems involved in productivity, improvement in criminal justice agencies, and program evaluation.

#### CCJ 6717 Social Implications of Human Evaluation by Criminal Justice Agencies

An advanced study of the social implications of human evaluation by criminal justice. This study deals with the impact made on society by agency policies and procedures. There is a heavy research component in this course.

#### CCJ 6945 Field Experience in Criminal Justice

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 (5) This course is devoted to the actual research labor required for a thesis in the Masters program.

CCJ 6976 Masters Thesis (5) This course is devoted to the effort required to prepare the thesis document. **Florida International University** 

## **Health Services Administration**

### Health Services Administration

Thomas M. Dunaye, Professor and Chairman Sanford Kravitz, Distinguished Professor Vandon E. White, Professor Herbert J. Lerner, Professor Nicholas D. Richie, Associate Professor Maria Belen Ortiz-Morales, Associate Professor Alan M. Gilbert, Assistant Professor

Denis H. J. Caro, Assistant Professor

### Masters and Bachelors Programs

The Department of Health Services Administration offers graduate and undergraduate studies leading to Masters and Bachelors degrees in Health Services Administration.

The graduate program provides scholarly, scientific and professional education which is characteristic of traditional preparation for management executives practicing the administration of complex health care organizations in governmental and private settings geographically within communities, regional, state and national systems.

The upper-division baccalaureate program provides professional education which typifies the traditional preparation of mid-level administrators and department supervisors practicing various middle-management functions usually in community-based health care settings.

The modern management of health services occurs in an environment vexed with problems of organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional growth. With the delivery of health services becoming vastly more complex, general management competencies have emerged three and four levels below that of the chief executive officer in large health institutions. Many of the same skills needed for executive management are now also required to provide administrative leadership in staffing, directing, coordinating and controlling the operational resources of administrative and clinical units in such organizations.

The masters program in health care management, by virtue of its academic and field experience requirements, is generally considered a terminal professional degree program because most graduates will seek immediate employment in a career application of these studies at the central or overall level of administration.

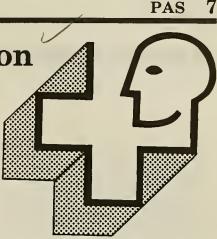
The bachelors program is designed to qualify students for entry-level administrative positions with various health care organizations or may, depending upon a student's prior professional experience in this field, serve as the necessary ideal preparation for further graduate study in health care management such as the masters program offered by this Department. Both programs are structured systematically on the model of bachelors studies scholastically-linked directly to the masters studies in a logical sequence of "basic-to-advanced" education for this profession. Such opportunity for bi-level academic preparation in an integrated programmatic framework at the same university is an unusual innovation in academic settings at the present time in the United States.

Doctoral studies (e.g., Dr.P.H. and Ph.D. programs) in health services administration are available at various universities for graduate students to acquire highly advanced qualifications in this field, mainly for teaching and research applications. This level of study is not currently offered at Florida International University, but the Department is planning for the development of this opportunity in the future. Similar planning is underway for collateral joint masters degrees (e.g., M.B.A. with Business Administration and M.P.A. with Public Administration) growing out of the Department's interdisciplinary relationships with other academic units at Florida International University and related institutions in the area.

While the programs are designed *primarily* for *fulltime students* who usually graduate within a two-year period, the same curricula may be completed by a *limited* number of *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. Although this focus is essentially concerned with application in the United States, the Department expects to expand its consideration of health care systems on the international level in all programmatic aspects.

Because these studies provide a professional emphasis, the Department utilizes a variety of local hospitals, longterm care facilities, prepayment plans, mental health programs, multi-institution corporations, emergency medical' systems, health maintenance organizations, and related public health and private agencies to give students supervised field experiences and a "practical laboratory" for operational research in health services administration.

The goal of both masters and bachelors programs is to create an academic center in which the university can respond to the educational needs of the field of health services administration. The Department's mission, therefore, is



dedicated to the following educational objectives:

- 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.
- To offer continuing education opportunities periodically for practicing administrators toward improving the effectiveness of their management performance.
- 3. To participate in interprofessional education experiences with faculty, students, and practitioners of the allied health sciences, public affairs and related human service professions interacting with the field of health care management.
- 4. To extend consultation and technical assistance to appropriate organizational settings and practitioners in health services and administrative practice.
- To conduct scholarly and applied research on various management problems and issues of significance to improving the delivery of health services.
- 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.

The Department is an Associate Member of the Association of University Programs in Health Administration and eligible for national accreditation by the Accrediting Commission on Education for Health Services Administration.

### **Bachelor of Health** Services Administration

### **Admissions Criteria**

Students seeking admission into the bachelors program must meet the following minimum requirements:

A. An Associate of Arts degree, or its equivalent (e.g., Associate of Science) in lower-division coursework (90 quarter hours or 60 semester hours) completed in the first two years of preparation at an accredited college or university, with a minimum 2.0 cumulative grade point average.

- B. All Florida International University general education requirements. including 9 quarter bours of English. 9 quarter hours of humanities, 9 quarter hours of natural science. 4 quarter hours of mathematics. 9 quarter hours of social science and 14 quarter hours of the general education electives, among the minimum 90 quarter hours (or 60 semester hours) needed for admission to upper-division coursework.
- C. Any other general admissions requirements of undergraduate programs at Florida International University as found in the catalog of the current academic year.

### Additional Program Standards for Admission

- Three-year diploma school of nursing graduates are to be referred to the Department for evaluation.
- 2. Non-traditional coursework is to be referred to the Department for evaluation.
- 3. The maximum of lower-division transfer credits will be 90 quarter hours. Upper-division quarter hours may be transferred up to a maximum of 45 credits toward the fulfillment of elective requirements or equivalent required courses in the program.
- Admitted applicants must meet all general education requirements of Florida International University, or receive provisional admission only if:
  - a) The applicant is currently enrolled in lower-division courses which will remove all general education deficiencies in his or her record, or
  - b) The applicant is currently enrolled as an FlU special student to remove all general education deficiencies in his or her record.

## **Admissions Procedure**

The applicant for admission to the bachelors program in health services administration must follow the same application procedures for admission to Florida International University.

## Minimum Recommended Course Loads

Full-time students must enroll in 10-14 quarter hours and part-time students may enroll in less than 10 quarter hours.

Approval for exceptions must be obtained from the Department Chairman who may request recommendations from the Department Academic Policy Committee.

## Special Student Registration

Only fully-admitted regular students, full or part-time, may register for Department courses. Special students, who have been counseled by an appropriate Department faculty advisor, must observe the regulations pertaining to special student non-degree-seeking status and enroll only in 3000-level courses unless special permission is obtained from the Department.

## Time Limit

All work applicable to the bachelor program in health services administration must be successfully *completed within 21 months* (including a full-time administrative internship placement within this period) from initial admission as a full-time student, or 3 years as a part-time student, to be awarded the bachelor's degree by the School of Public Affairs and Services at Florida International University. In unusual circumstances, students may petition the Department Chairman to be granted an extension if reasons are warranted.

## Academic Probation and Dismissal

Probation: A student whose grade point average (GPA) in any Quarter falls below a 2.0 will automatically be placed on probation, indicating serious academic difficulty. The Department, through University channels, will appropriately communicate the necessary conditions to be met for continuing to remain enrolled in the program.

Dismissal: A student on probation who fails to earn a 2.0 during that quarter will automatically be dismissed from further enrollment. A student who has been academically dismissed may apply for readmission no earlier than one year after the quarter of dismissal.

## **Internship Requirement**

Full-time students are expected to begin a full-time administrative internship for completion of the bachelor degree in the Spring Quarter of the second year. If this period of field placement is evaluated by the Department as successful, the student will graduate at the end of the Spring Quarter in the second year (usually 21 months in total).

Full-time or equivalent part-time administrative internships are also required for part-time students, when they have satisified all other curriculum requirements that serve as pre-requisites for field work. The internship and all other course work for part-time students must typically be completed within three years of initial admission to the program.

All students must achieve a G.P.A. of 2.5 or better in all upper division coursework before they are permitted to enroll in the Administrative Internship (HCA 4940).

The Department utilizes the administrative internship as its mechanism for permitting students to earn income occasionally while studying in the program, in lieu of special arrangements with the University's Office of Cooperative Education.

For further information regarding internship placements, reference should be made to the Department Policy and Procedures Statement on the Administrative Internship.

## Credit for Life/Work Experiences

In accordance with University policy, the Department has established its prerogative of *not* awarding credit for life/work experience in substitution for normal coursework in its graduate and undergraduate programs.

## Departmental Relationship with the External Degree Program

All students admitted to the External Degree Program seeking the bachelor's degree in health services administration must be admitted to the University and the Department according to the same admissions policies established for regular full-time and part-time students, and must enroll in all required courses (66 credit hours of didactic courses) in the program at FIU's major campuses. The balance of the tenhour required Administrative Internship course and 14 credit hour elective requirements may be arranged in other University settings if taken outside of FIU's immediate geographic service area through the External Degree Program, or through independent study mechanisms, accepted with prior approval by the Department.

## **General Requirements**

All Department students completing the B.S. in Health Services Administration are also subject to undergraduate student regulations and degree requirements governed by the policies of the School of Public Affairs and Services and

## **Health Services Administration**

Florida International University.

LOCATION: North Miami Campus Only

DEGREE: Bachelor of Health Services

A	dministration		
A	1ajor Required	Courses: Quarter	Hours 76
	HCA 3120	Health and Social	
		Service Delivery	
		Systems	5
	HCA 3501	Management for the	
		Health Professions	5
	GEY 3002	Medical Terminology	2
	HCA 4123	Team Approach to	
	•	Health Services	
		Delivery	2
	HCA 4125	Issues and Trends in	
		Health Care Delivery	5
	HCA 4203	Health Care Financial	
		and Accounting	
		Management	5
	HCA 4303	Health Care	
		Organization and	

	and Accounting	
	Management	5
HCA 4303	Health Care	
	Organization and	
	Administration	5
HCA 4313	Legal Aspects and	1
	Legislation in He	
	Care	5
HCA 4430	Principles and	
	Programs in Publ	ic
	Health	5
HCA 4432	Principles of App	lied
	Epidemiology	5
HCA 4511	Human Resource	s
	Management and	
	Supervision	5
HCA 4520	Automated	
	Management and	
	Information Syste	ems 5
HCA 4710	Health Managem	
	Systems Engineer	
HCA 4711	Statistical Method	
	Health Care	5
HCA 4714	Fundamentals of	
	Health Research	
	Methods	2
HCA 4940	Administrative	
	Internship	10
lective Course		Quarter Hours
		14
OFM DODA	1 1	

GEY 3002	Issues and Trends in	
	Gerontology	2
HCA 3103	Mental Health and	
	Mental Retardation	2
HCA 4115	People, Power and	
	Politics in Health	
	Affairs	2
HCA 4127	Family, Health	
	Centers	2
HCA 4506	Applied Management	
	in Health Care	
	Organization	2
HCA 4612	Program Planning and	
	Evaluation	2

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HCA 4521	Health Care Computer		
	Applications	2	
HCA 4905	Independent Study	2	
HCA 4930	Special Topics		
	Seminar in Health		
	Services	2	
			90

### **Bachelor of Health Service** Administration

## **Course Descriptions**

#### **Definition of Prefixes**

HCA-Health Care Administration Required Courses:

HCA 3120 Health and Social Service Delivery (5)(F,W,S,SS) Systems In this course students examine the history and current functions of health and social service delivery systems in the United States. The focus is on the components of these human service systems, how they interact, and their internal and external controls. Since this is the basic foundation course in the bachelor's curriculum for health services administration, the content is largely didactic in presentation.

#### HCA 3501 Management for the Health

(5)(F,W,S,SS) Professions This course surveys the fundamental theories, principles and concepts of management to prepare the student for a middle-management position in health care. A primary objective is to begin developing the ability to effectively solve problems utilizing management tools and techniques. Practical applications of management theory in health care organizations are approached largely through the use of case studies.

#### MRE 3001 Medical Terminology

(2)(F,W,S,SS)

Provides the student with basic medical language skills, including pronunciation, spelling, and definitions necessary for communication in the medical world.

#### HCA 4123 Team Approach to Health Services (2)(F) Delivery

The purpose of this course is to identify factors involved in team formation, structure, composition, maturity, growth, and process. The fundamental processes of role definition and negotiation, communication, conflict-resolution, and decision-making, as they relate to team effectiveness, are presented to analyze team functioning. Factors such as individuality, personal values, and leadership styles are discussed. Much of the course is developed experimentally using role-play, simulation gaming,

and group projects as the predominant instructional modality.

#### HCA 4125 Issues and Trends in Health Care Delivery (5)(W)

This course presents the student with various significant health care issues and their developing trends. To keep timely with changing events of varying importance, the course content may be somewhat different each time it is offered. Depending on the currentness and relevance of these developments, however, the basic focus will generally cover policy questions involving health care organization, financing, quality, controls, and delivery of services.

#### HCA 4203 Health Care Financial and

Accounting Management (5)(F) This course is designed to help the future health service department-level administrators understand financial management as one of their primary responsibilities. Basic accounting principles are addressed with emphasis placed on the use of accounting information to make managerial decisions. Topics include third party payers, volume forecasting, budgeting procedures, and rate setting techniques.

#### HCA 4303 Health Care Organization and (5)(W) Administration

This course examines health care organization in the United States from a systems viewpoint, with a focus on 1) the extent to which the nation is presently developing a unified "macro" health care system, 2) a variety of "microsystem" settings in health care delivery, and 3) the growing phenomenon of corporate hospital management. The administrative implications of a systems approach are explored with opportunity for students to prepare schematic models of various sectors of the health care system toward the objective of improving the existing patterns.

#### HCA 4313 Legal Aspects and Legislation in

Health Care (5)(F) This course involves the study of the corporate structure and legal liabilities of different types of health care institutions. The responsibilities and duties of health professionals and what action constitutes a breach of that duty are presented. Intentional and unintentional tort law is examined, including the health professional's grounds for defense in malpractice suits. Federal, state, and local statutes for the provision and regulation of health services and facilities form the legal framework for analysis.

#### HCA 4430 Principles and Programs in Public Health

This course presents analysis of public health programs and their planning, with an overview of the organization of public health practices at

various levels. Public health history and philosophy form the background of discussion which focuses on broad environmental and epidemiological problems occurring in urban and rural communities throughout the U.S.

#### HCA 4432 Principles of Applied Epidemiology (5)(SS)

The student is introduced to a broad survey of the methods and techniques used by epidemiologists investigating the distribution and causes of infectious and noninfectious diseases. A holistic approach is taken to the application of epidemiology principles in disease surveillance and control at the community level through public health agencies.

#### HCA 4511 Human Resources Management and Supervision (5)(SS)

The role of health personnel supervisors is examined in relation to directing the work responsibilities of health care employees. Interviewing, performance appraisal, disciplining, counseling, job orientation, in-service training, and other personnel functions are explored. The literature on employee motivation and productivity is reviewed with implications for improved management practices. Legislation affecting personnel in hospitals and other health care organizations is reviewed for understanding the basic structure of labor relations developing in the health field.

#### HCA 4520 Automated Management and

Information Systems (5)(S) This course is concerned with the analysis, design, and installation of management information systems in health care organizations. Costbenefit aspects of information, evaluation of computer systems, file design and data management, data capture, storage and retrieval, and various economic considerations in systems acquisition are among the topics addressed. Emphasis is placed on understanding the unique characteristics of management information techniques systematically applied in the health care industry.

#### HCA 4710 Health Management Systems

Engineering (5)(W) This course provides administrative health personnel with an introduction to health systems analysis and applications of various industrial engineering methods and procedures. Work systems, job analysis, space utilization, inventory control, and traffic patterns are among the program engineering topics explored.

#### HCA 4711/STA 4161 Statistical Methods for Health Care (5)(W)

A course in descriptive and inferential statistics for the health services. Topics include probability distributions, point and interval estimation, hypothesis testing, regression and correlation and contingency table analysis. Prerequisite: STA 3013 or equivalent college mathematics course.

#### HCA 4714 Fundamentals of Health Research Methods (2)(F)

In this course the student is introduced to the formal study of research methods, including literature search, hypothesis generation and testing, sampling theory, research design, data analysis, and formal report writing. Since this is a basic introductory course, it will consist largely of didactic content. Prerequisite(s): HCA 4711.

#### HCA 4940 Administrative Internship (10)(F, W, S, SS)

The student who has completed all required and elective upper division course work is provided an opportunity to observe and engage in administrative practice in a health care setting in order to enhance all prerequisite classroom instruction in the program. Upon successful completion of this course the student will be able (among others) to: 1) recognize and identify the administrative methods used in the organizational placement setting, 2) perform selected administrative procedures. 3) identify administrative, governance, funding and service structures, and 4) relate academic management theory to the organization's actual functioning. The student's experience will be evaluated by Department faculty through a combination of institutional visits and conferences with the agency preceptor and the student, evaluation of a weekly log kept by the student, and evaluation of final reports submitted by both student and preceptor. Prerequisite(s): Completion of all curriculum required course work.

#### ELECTIVE COURSES

#### GEY 3002 Issues and Trends in Gerontology

(2)(F)

This course introduces students to a study of the aging phenomenon and social attitudes towards the elderly. Reviewed are various program efforts being undertaken by public and private agencies to cope with the problems of the aged.

### HCA 3103 Mental Health and Mental

Retardation (2)(F)(S) In this course the student explores the history of care for the mentally ill and retarded in the United States Relevant legislation, issues and trends at federal, state and local levels are examined, including the role of parent and family groups in the professional treatment of this important health client group. Program planning for mental health services is given major emphasis.

#### HCA 4115 People, Power and Politics in Health Affairs (2)(W)

In this course a demographic analysis of the United States population is examined in terms of the health needs of various special groups. Community power structures are analyzed to determine how they function in policies and decisions that govern the distribution of goods and services in society. Values, morals and expectations of various cultural and political groups are analyzed in relation to their impact on health care delivery systems. The role of organized health professionals is also studied to determine their influence in the political process of community control of health services.

HCA 4127 Family Health Centers (2)(F)(W) This course presents an historical review of family health centers and considers the role of primary care as an expanding alternative in meeting community health needs.

#### HCA 4506 Applied Management in Health Care Organization (2)(S)(SS)

In this course management theory and principles are examined in their application to the administrative process linking executive level administration with management functions at the unit or department level in complex health care organizations. The student explores indepth how formal structure, organizational policies, interprofessional practices, and program resources are combined in making and implementing departmental decisions which support the objectives of the organization as a whole. Case studies are emphasized as a source of actual problems and situations illustrating operational conditions found in health care settings.

#### HCA 4612 Program Planning and Evaluation

(2)(S)

Students are introduced to basic concepts of planning and evaluation as the fundamental tools of program design and development. Opportunities for both theoretical and practical applications in the use of basic techniques are developed through both classroom exercises and student projects arranged under operational conditions in health care agencies.

#### HCA 4521 Health Care Computer Applications

(2)(SS)

Students in this course experience the use of computer applications for administrative analysis of various patient care, financial and program data typically found in health care situations. The hospital organization model is used as a framework for discussing the design, interface characteristics, and data structures which can be technologically facilitated through the use of appropriate computer services. Basic hardware and soft-ware requirements of high-

volume data processing situations are examined in hospital operations. Prerequisite(s): HCA 4502.

HCA 4905 Independent Study (2)(F,W,S,SS) This course is designed to allow students an opportunity for in-depth research or an action-oriented project carried out under the supervision of their faculty advisor. As an elective, an independent study should only be taken after substantial course work has already been completed in the program curriculum. In all cases preparation and approval for this course should be arranged during the academic quarter preceding the quarter planned for the study to begin. Prerequisite(s): Permission of faculty advisor and course coordinator.

#### HCA 4930 Special Topics Seminar in Health Services (2)(F,W,S,SS)

This course is arranged to allow students to investigate one or more special topics of interest in the health care field and will usually be taught by visiting faculty or a planned group of guest lecturers who are qualified to bring particular expertise and experience to the topic(s) selected. The objectives aim toward expanding student knowledge in specialized fields when particular circumstances can be arranged for the required faculty resources and sufficient course enrollment. In all cases preparation and approval for this course should be arranged during the academic quarter preceding the quarter planned for the study to begin. Prerequisite(s): Permission of faculty advisor and course coordinator.

### Master of Health Services Administration

## **Admission Criteria**

Students seeking admission into the graduate program must meet the following minimum requirements:

A Bachelor's degree or equivalent from a regionally accredited university or college.

A "B" or better average in all work attempted while registered as an upper-division student for a baccalaureate degree, or a total score of 1000 on the Graduate Record Examination (GRE), but preference will be given to those who meet both of these qualifications.

All graduate applicants to this program are required to take the GRE regardless of previous grade-point average. All applicants must achieve a minimum GRE score of 850 (425 or better on both verbal and quantitative sections).

Prerequisites for admission to this program are upper-division course work in basic accounting and statistics with grade equivalents of "C" or better. (HCA 4203 and HCA 4711 are examples of recommended courses provided by the Department).

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on space availability, relevant work experience, scholastic achievements, and compatibility of applicant's career goals with the program's objectives.

### **Admissions Procedures**

A student planning to enroll in the graduate program in Health Services Administration must complete the following steps and meet the stipulated requirements:

- a. Submit a graduate application for admission to the Admissions Office of Florida International University, from which these forms will be mailed upon request. The admission process may require as much as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores. Together with the application form, the candidate is requested to submit a written statement of his/her career goals in relation to the desire to seek higher education in the field of Health Services Administration. This information should not exceed 500 words in length
- b. Have all official transcripts of previouslycarned college or university credits sent from the applicant's former institution(s) to the Admissions Office of Florida International University (copies submitted directly by applicants are *not* acceptable for application purposes).
- c. Submit his/her scores on the Graduate Record Examination (GRE) administered nationally by the Educational Testing Service, Box 955 (GRE), Princeton, New Jersey 08540.

Foreign students must submit their scores on TOEFL or a comparable examination, and meet all University admissions standards and procedures for international student admissions (see the appropriate section of the University Catalog).

All admitted students, whether full-time or part-time, will begin their program of study in the Fall Quarter, and all completed applications must be received by the Department no later than *March 15* preceding Fall Quarter admission.

The Department Admissions Committee will review completed applications and candidates will be notified if they are selected for a personal intereview, which will be arranged at the mutual convenience of applicants and University faculty (or their delegates).

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## **Degree Requirements**

To be eligible for a Master's degree, a student must:

- Satisfy all University requirements for the Master of Health Services Administration Program.
- Complete a minimum of 90 quarter hours of graduate-level coursework which includes the Master's Research Project, in addition to the administrative residency (which course credits are counted in the total 90 credits required).
- 3. Earn a minimum G.P.A. of 3.0 or equivalent in all work completed at FIU as a graduate student.
- 4. No courses in which a grade below "C" is earned may be counted toward the master's degree, however, all work taken as a graduate student will be counted in computing the G.P.A., including courses graded "D" or "F," and any undergraduate courses taken as a graduate student.
- 5. A maximum of 8 quarter hour-credits of graduate coursework may be transferred from an accredited university by petition at the time of admission, if approved by the Department Admissions Committee according to the policies on academic standards.

### Minimum Recommended Course Loads

Full-time students must enroll in 15 quarter hours and part-time students should enroll in 7-8 quarter hours.

Approval for exceptions must be obtained from the Department Chairman who may request recommendations from the Department Academic Policy Committee.

## Special Student Registration

Only fully-admitted regular students, fulltime or part-time, may register for Department courses. Special students, who have been counseled by an appropriate Department faculty advisor, must observe the regulations pertaining to non-degree-seeking status and enroll only in 5000-level courses unless special permission is obtained from the Department.

## **Time Limit**

All work applicable to the master's program in health services administration must be successfully *completed within 21 months* (including a full-time residency placement within this period) from initial admission as a full-time student, or 3 years as a part-time student, to be awarded the master's degree at Florida International University. In unusual circumstances, students may petition the Department Chairman to be granted an extension if reasons are warranted.

## Academic Probation and Dismissal

Probation: A student whose grade point average (GPA) in any quarter falls below a 3.0 will automatically be placed on probation, indicating serious academic difficulty. The Department, through University channels, will appropriately communicate the necessary conditions to be met for continuing to remain enrolled in the program.

Dismissal: A student on probation who fails to earn a 3.0 GPA during that quarter will automatically be dismissed from further enrollment. A student who has been academically dismissed may apply for readmission no earlier than one year after the quarter of dismissal.

## **Residency Requirement**

Full-time students are expected to begin a full-time administrative residency for completion of the master's degree in the Winter Quarter of the second year, and continue through the Spring Quarter. If this period of field placement is evaluated by the Department as successful, the student will graduate at the end of the Spring Quarter in the second year (usually 21 months in total).

The responsibility for locating and arranging this approved field placement predominantly falls upon the student with assistance by the Department through the student's faculty advisor who will recommend approval of the student's residency arrangements. During this period, the residency will also constitute fulltime matriculation in the program and require payment of regular tuition fees for the field placement courses in the Winter and Spring Quarters, 10 credits each term. These 20 credits count toward the completion of the 90 credithours required for the master's degree. Administrative residencies will be evaluated by departmental faculty and preceptors in a manner similar to regular course work.

Full-time or equivalent part-time administra-

tive residencies are also required for part-time students, when they have satisfied all other curriculum requirements that serve as pre-requisites for field work. The residency and all other course work for part-time students must typically be completed within three years of initial admission to the program.

For further information regarding the residency requirements, reference should be made to the Department Policy and Procedures Statement on the Administrative Residency.

### Master's Research Project Requirement

The master's research project is normally initiated and completed during the Fall Quarter of the second year. Five credits are awarded for this problem-solving analysis written in standard essay form. For more information, further reference should be made to the Department Policy and Procedures Statement on the Master's Research Project.

### Credit for Life/Work Experiences

In accordance with University policy, the Department has established its prerogative of *not* awarding credit for life/work experience in substitution for normal coursework in its graduate and undergraduate programs.

### **General Requirements**

All Department students completing the master's program are also subject to graduate student regulations and degree requirements governed by the policies of the School of Public Affairs and Services and Florida International University.

LOCATION: North Miami Campus Only DEGREE: Master of Health Services Administration

Major Require	d Courses: Quarter		
	Hours		82
HCA 5101	Introduction to Health		
	Services	5	
HCA 5711	Statistical Methods for		
	Health Services	3	
HCA 6114	Health Politics, Policy		
	and Regulation	3	
HCA 6200	Health Economics and		
	Insurance Principles	3	
HCA 6201	Financial Management		
	of Health Systems	4	
HCA 6301	Hospital and Health		
	Facilities Organization	4	
HCA 6316	Health Law and Legal		
	Aspects of		

	Management	3
HCA 6431	Public Health and	
	Environmental	2
HCA 6434	Management	3
ПСА 0434	Methods of	3
HCA 6504	Epidemiology	د
11CA 0504	Health Care	
	Management Theory and Practice	3
HCA 6505	Personnel	,
IICA 0505	Management and	
	Labor Relations	3
HCA 6508	Organizational	2
11011 0500	Behavior in Managing	
	Health Institutions	3
HCA 6691	Health Services	2
	Planning and	
	Development	3
HCA 6716	Research Design and	2
	Methodology	4
HCA 6717	Quantitative	
	Managerial Methods	4
HCA 6719	Advanced Health	
	Services Management	
	and Research Seminar	3
HCA 6732	Masters Research	
	Project	5
HCA 6801	Health Services	
	Administrative	
	Practicum	3
HCA 6811	Administrative	
HCA 6811	Administrative Residency I	10
HCA 6811 HCA 6812		10
	Residency I	10 10
	Residency I Administrative Residency II	10
HCA 6812 Elective Course	Residency I Administrative Residency II es: Quarte	10
HCA 6812	Residency I Administrative Residency II es: Quarte Long-Term Care	10 r How
HCA 6812 Elective Course HCA 5425	Residency I Administrative Residency II es: Quarte Long-Term Care Administration	10
HCA 6812 Elective Course	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical	10 r How 2
HCA 6812 Elective Course HCA 5425 HCA 5135	Residency I Administrative Residency II 25: Quarte Long-Term Care Administration Emergency Medical Care Systems I	10 r How
HCA 6812 Elective Course HCA 5425	Residency I Administrative Residency II 25: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical	10 r How 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136	Residency I Administrative Residency II 25: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II	10 r How 2
HCA 6812 Elective Course HCA 5425 HCA 5135	Residency I Administrative Residency II 25: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics	10 r How 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care	10 r How 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and	10 r How 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management	10 r How 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and	10 r How 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations	10 r How 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing,	10 r How 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program	10 r How 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development	10 r How 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health	10 r How 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731 HCA 6113	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems	10 r How 2 2 2 2 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems Policy Science and	10 r How 2 2 2 2 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731 HCA 6113	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems Policy Science and Health Policy Analysis	10 r How 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731 HCA 6113 HCA 6117	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems Policy Science and	10 r How 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731 HCA 6113 HCA 6117	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems Policy Science and Health Policy Analysis HMO and Ambulatory	10 r How 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731 HCA 6113 HCA 6117 HCA 6128	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Emergency Medical Care Systems II Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems Policy Science and Health Policy Analysis HMO and Ambulatory Care Administration	10 r How 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
HCA 6812 Elective Course HCA 5425 HCA 5135 HCA 5136 HCA 5318 HCA 5507 HCA 5731 HCA 6113 HCA 6117 HCA 6128	Residency I Administrative Residency II es: Quarte Long-Term Care Administration Emergency Medical Care Systems I Legal Issues and Ethics in Health Care Delivery and Management Self, Group, and Human Relations Proposal Writing, Grants, and Program Development Comparative Health Systems Policy Science and Health Policy Analysis HMO and Ambulatory Care Administration Mental Health	10 r How 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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(Continued)

HCA 6105	Behavioral Aspects of	
	Health and Illness	2
HCA 6204	Health Facility Risk	
	Management	2
HCA 6611	Health Planning	
	Methods and	
	Techniques	2
HCA 6610	Program Evaluation	
	Methods in Health	
	Care	2
HCA 6613	Design and Functional	
	Planning of Health	
	Facilities	2
HCA 6615	International Health	
·	Planning and	
	Programming	2
HCA 6718	Advanced Applications	
	of Operations	
	Research	2
HCA 6905	Independent Study	2
		- 9

### **Master of Health Service** Administration

### **Course Descriptions**

**Definition of Prefixes** HCA-Health Care Administration

#### **REQUIRED COURSES**

#### HCA 5101 Introduction to Health Services

In this course the student is introduced to organized health services in terms of delivery, financing, resources and function in American society. A wide variety of health care settings, including inpatient-ambulatory, public-private, clinical-administrative, etc., are examined through weekly three-hour lectures by faculty with varied expertise, followed by weekly twohour seminars during which students will be encouraged to analyze and amplify the lecture material in small group discussions with faculty coordinators. This is a cornerstone course upon which the entire graduate curriculum is developed to a greater degree in more specialized depth.

(5)(F)

#### HCA 5711/STA 5127 Statistical Methods for Health Services (3)(F)

This course presents tools for the analysis of data that arise in the health professions. Specific topics include: probability concepts, poisson distribution, nonparametric techniques, sample size determination, analysis of variance and advanced regression techniques. Students will be taught the use of a computerized statistical analysis package. Pre-requisite: HCA 4711 or introductory upper division college statistics course.

#### HCA 6114 Health Politics, Policy and Regulation

(3)(SS)In this course the role of government and forces in the private sector are analyzed in determining national, state and local health policies for American society. Various political structures and interest groups that influence the design and implementation of health policy are studied to understand the nature of their involvement in this process. The increasing role of regulation and public control in the health care industry will be examined in terms of current direction and impact on the management and financing of health facilities and service.

#### HCA 6200 Health Economics and Insurance Principles (3)(F)

Actuarial theories and general principles of health insurance are reviewed in relation to the history and special characteristics of public and private third-party prepayment arrangements. The economic effects of hospitals and medical practice are studied as influential forces in determining health services supply, demand, and pricing in the marketplace. Concepts of economic and cost-benefit analysis applied to health are introduced. Prerequisite(s): HCA 4203 or equivalent.

#### HCA 6201 Financial Management of Health (4)(W) Systems

The thrust of this course is to prepare health care managers at the executive level to address major issues and questions involving financial planning and management in their oganizations. The student will gain insight into current policies of financial control in becoming a responsible management decision-maker. Topics covered in the course include cost-funding, working capital management, capital financing, accounts receivable management, investments, internal auditing, and budgeting.

#### HCA 6301 Hospital and Health Facilities Organization

(4)(F) Administrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care facilities. Students learn how formal structure, function, policies, inter-professional practices, community needs, and program resources are combined in delivering effective hospital and health services.

#### HCA 6316 Health Law and Legal Aspects of

(3)(W) Management This course includes a survey of currently significant issues in law applicable to the delivery of health care. Included are such areas of concern as professional malpractice, research on human subjects, the rights of patients, hospitalization of the mentally disabled, community participation in the health care system and collective bargaining with health care providers. Emphasis is placed on the relevance of practical problems faced in professional practice to the framework of law and public policy. Other topics include consent to medical and surgical procedures, medical-moral problems, concept of the corporation, principles of hospital liability, charitable immunity, medical records, contracts, taxation, regulatory authority, etc.

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PAS

#### HCA 6431 Public Health and Environmental Management (3)(W)

This course examines the organization and functions of state and local health departments through the literature and specific case studies. A major health focus deals with environmental entities affecting health status and the programmatic measures and methods which are utilized to develop environmental control. Students are given an administrative overview of the broad program concerns receiving the attention of public health and environmental management agencies and regulatory efforts to cope with these regional and community problems.

HCA 6434 Methods of Epidemiology (3)(S)The methods of epidemiology as applied by public health agencies are presented in historical and current perspective with disease and illness patterns of changing impact. How these techniques have transferred value to hospital, health agency, and community environments is a concern of administrators who have high level responsibilities for managing the resources to improve health status. This course provides students with a foundation for applying useful quantitative tools in monitoring and evaluating levels of illness and disease conditions.

#### HCA 6504 Health Care Management Theory (3)(W) and Practice

In this course the student is introduced to the role of modern management concepts, tools and techniques in health care administration, and to practical applications of management theory in health organizations. The course attempts to facilitate an understanding of the managerial role in a complex, dynamic, and multidimensional environment.

#### HCA 6505 Personnel Management and Labor (3)(S)Relations

This course studies personnel structure, practices, and problems in hospitals and other health organizations. Topics include salary and wage determinations, task analysis, employee recruitment, selection, testing methods, staffing requirements, and evaluation techniques

through use of case studies. The course also reviews governmental regulations and policies affecting the conduct of parties in bargaining relationships between labor and management in health care settings, especially hospitals. Theory and principles of collective bargaining, negotiation strategies and tactics, methods of handling union grievances, understanding of agreement clauses, and benefit plans for health workers are additional topics considered.

#### HCA 6508 Organizational Behavior in Managing Health Institutions (3)(SS)

General theories of organizational behavior and executive functions are examined in their application to hospitals and other health agencies. The nature of administrative process, the role of individuals and groups, human relations, leadership and power, bureaucracy, authority, communications, goal and policy formulation, and functional strain, among other elements, are researched in the context of defining organizational effectiveness. Practical methods for organizational analysis are tested for utility.

#### HCA 6691 Health Services Planning and Development (3)(S)

This course is an introduction to the formal or ganization and professional practice of health planning. Community, regional, interorganizational, and system theories of coordinated planning are explored in relation to political, social, and economic forces of change that both nurture and vex the state of the art. Linkages among planners, agencies, and plans are examined for differences in structural authority, operating policies, and methods. Various health system plans are analyzed in student projects to gain a sense of the actual work that typifies this field.

#### HCA 6716 Research Design and Methodology

Methodology (4)(S) In this course the student is introduced to the formal study of research design and methodology in health care settings. The didactic portion of the course consists of lectures and discussions on such topics as the formulation of research problems, hypothesis generation and testing, sampling methods, research design, and data analysis. In the latter part of the course the student is given opportunity to select a research topic and prepare a complete proposal within acceptable professional guidelines. Prerequisite(s): HCA 5711.

#### HCA 6717 Quantitative Managerial Methods

This course provides health care managers and planners with a theoretical and practical knowledge of operations research techniques such as linear programming, computer simulation, and

(4)(SS)

decision analysis. The primary objective is to give students experience in formulating and solving typical management problems and acquaint them with the advantages and limitations of these quantitative techniques. The course will make use of case study material and actual operational data from health care institutions so that students may experience direct line applications of these techniques.

#### HCA 6719 Advanced Health Services Management and Research Seminar

(3)(F) This is an integrative capstone course designed for students in the final stage of their program as an opportunity to integrate the theoretical and practical knowledge acquired in other courses and activities of the curriculum. Selected case studies and relevant research drawn from the literature in health care management provide the substantive framework for seminar analysis of issues and policy questions which may invite attack for resolution through use of various managerial strategies and methods. Each student will have an individual project responsibility to contribute as an analytical problem-solving topic for presentation during the course. Prerequisite(s): Completion of all other didactic course work in the program curriculum.

#### HCA 6732 Masters Research

Project (5)(F,W,S,SS) In this course the student will be 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 first and, after faculty advisor approval, the project will be carried out to conclusion in a final professional report. Students will be expected to demonstrate during the period of this research project that they can implement theoretical knowledge and skills learned earlier in research methods and design. Prerequisite(s): HCA 5711 and HCA 6717.

#### HCA 6801 Health Services Administrative Practicum (3)(S

Practicum (3)(SS) This course is designed to provide weekly supervised off-campus field experience and observational studies of a wide variety of health services organizations, including hospitals, neighborhood centers, insurance programs, planning agencies, mental health facilities, etc. Impressions and information obtained from each visit are reviewed in regular student-written reports and discussions with accompanying faculty.

#### HCA 6811 Administrative Residency I

(10)(F.W.S.SS) In this course the graduate student who has completed all required course work will be able

to acquire and practice professional management skills in a health care setting under the supervision of a program preceptor. The student will be given opportunity to observe, evaluate and appropriately participate in the administrative processes of the health care organization where placement has been arranged. Evaluation of the student's residency experience by the faculty advisor and preceptor will be based on 1) examination of monthly written reports prepared by the student detailing his/her experiences in the agency/institution, and 2) progress reports submitted by the preceptor and student at the end of the guarter. Prerequisite(s): Completion of all required course work, including the masters project, and approval of the field placement by the faculty advisor and course coordinator.

#### HCA 6812 Administrative Residency II (10)(F,W,W,SS)

This course is a direct continuation for a second of the two-quarter Administrative Residency for the student already in placement from the preceding quarter. Prerequisite((s): HCA 6811.

#### ELECTIVE COURSES

## HCA 5425 Long-Term Care Administration (2)(F)

This course reviews the aging process and health problems involved in gerontology and institutional care of the aged afflicted with chronic diseases. How such facilities providing services for these patients are organized and managed for maximum effectiveness is a major thrust of study, with the objective of preparing students toward the qualifications for licensure examination as nursing home operators. Rehabilitation services administration is included as a collateral function of long-term care responsibility and specialized management application.

#### HCA 5135 Emergency Medical Care Systems I (2)

(2)(F,S)

This course is designed to explore the development and implementation of emergency medical service systems. It covers history, legislation, structure and planning of emergency medical services with the objective of preparing managers for EMS systems (such as emergency departments in hospitals, police-fire rescue squads and coast guard, etc.). This course is the first of a two-part series which also serves as the prerequisite preparation for special certification in this field as provided through the department and this University (see appropriate section of F.I.U. catalog).

#### HCA 5136 Emergency Medical Care

Systems II (2)(W,SS) This is the second part of a two-course series in-

(2)(W)

tended to explore emergency medical service topics at the more advanced levels with emphasis on the special role and skills required of EMS administrators and planners. The approach taken is one of a seminar-workshop environment with variable topic selection depending upon current developments and the expanding qualifications becoming required of health personnel in this field. For further information on the Department's special certification in EMS qualification, see the appropriate section of the University catalog on Certification Programs.

#### HCA 5318 Legal Issues and Ethics in Health Care Delivery and Management (2)(F)(S)

The legal basis of regulatory boards and agencies is examined in this course, including the relationships which exist between professionalism, legality, consumerism, and ethics in delivering health services in various settings (e.g., urban and suburban hospitals, health centers, nursing homes, home health care agencies, etc.). The relationship between organizational and productive efficiency in patient care will be treated in terms of the ethical roles of both providers and consumers.

#### HCA 5507 Self, Group, and Human Relations

The fundamentals of appropriate use of "self" in management and administrative roles are studied in this course. The human relations aspect of management and the theories of small and large group dynamics are examined. Ideas and opinions relating to authority, power, leadership, and intimate space are explored to determine their validity. Concepts of ethical humanism and transactional analysis will be presented to assist the student in realizing selfawareness, self-responsibility, authenticity and creativity.

(2)(W)

#### HCA 5731 Proposal Writing, Grants, and

Program Development (2)(S)(SS) This course provides the basic tools for development of writing and communications skills in the areas of program design, evaluation and funding (e.g., grantsmanship). The course reviews governmental and nongovernmental grant sources and the fundamentals of grant preparation, fund raising, and implementation. Students are also introduced to approaches and techniques in developing confidence and competence in the execution of daily writing and other forms of administrative communication dealing with diverse audiences, such as clinical and professional staff, patients, employees, unions, community groups, agency officials, etc.

#### HCA 6113 Comparative Health Systems

In this course the student who is familiar with the organization of the U.S. health care system has an opportunity to examine in a comparative fashion selected foreign health care systems in order to distinguish the major components from other systems with those in the U.S. In particular, the student will examine how differences in social structure, values, geography, politics and economic systems contribute to a variety of health care delivery models operating in the world today. The student will prepare an analytical study which suggests ways in which the current U.S. system can be reorganized through the adoption of elements from other countries. Prerequisite(s): HCA 5101.

#### HCA 6117 Policy Science and Health Policy Analysis (2)(F)

This course examines the theory, methods and practice of formulating, legitimizing, managing and evaluating health policy. The role of administrators, interest groups, lobbies, courts, legislators and political party philosophy in establishing and changing health policies is explored in the analytical context of emerging policy science. Students are directed toward developing model strategies for conflict-resolution using negotiating tactics, sanctions, regulatory controls, and incentives for effective policy allocation of health resources. Prerequisite(s): HCA 6114.

#### HCA 6128 HMO and Ambulatory Care

(2)(W)(SS) Administration This course involves an overview of the management process employed in health maintenance organizations (HMOs) and other group medical practices operating under various financial arrangements, including prepayment. Topics include analysis of the organization, delivery and planning of ambulatory care in hospital and free-standing facilities with a focus on preventive care, cost-containment, accessibility and availability of primary health services at the community level. Case studies are used to review successes and failures in group practice organization with the objective of exploring ways to increase both its quality and cost-effectiveness. Prerequisite(s): HCA 5101, HCA 6200 and HCA 6301.

#### HCA 6616 Mental Health Administration and Planning (2)(W)(SS)

Mental health organizations are studied in this course as comparative models for delivering a wide range of programs and services to patients with various psychiatric conditions, alcoholism, mental retardation, drug addiction, and related disorders. Current laws, institutional policies, funding and planning for community mental health services are surveyed in relation to their impact. The specialized functions of administrators and planners are identified with the objective of introducing students to the broader organizational and systems environment of human services delivery. Prerequisite(s): HCA 5101.

#### HCA 6105 Behavioral Aspects of Health and Illness (2)(S)

In this course the student is broadly exposed to the behavioral perspectives of health and illness as they impact on human behaviors in the delivery and receipt of health care. As future administrators, students will be sensitized to the cultural, attitudinal, religious, ethnic, social and psychological factors which affect client behaviors and either impede or facilitate the health care process and its management. Prerequisite(s): HCA 6508.

#### HCA 6204 Health Facility Risk Management

(2)(F)

In this course the principles of risk management and insurance are used as a basis for educating the student in the development of an institutional program of risk management. Topics address risk management theory, risk identification, liability loss exposures, claims management, loss prevention, and risk program financing. Special attention is given to the issue of self-insurance and related factors, such as loss-funding, "captive" insurance companies, and excess insurance markets. Relevant econometric considerations are also discussed. Prerequisite(s): HCA 6200 and HCA 6201.

#### HCA 6611 Health Planning Methods and Techniques (

Techniques (2)(F) The technical elements are examined in modelbuilding of complex information and control systems for corporate (institutional), program (multi-unit), and community (comprehensive) planning of health care. Methods and techniques include location optimization or "medical" geography, market modeling, health status measurement, forecasting (e.g., "Delphics"), and cost-containment strategies currently employed by health planners. Prerequisite(s): HCA 6691 or equivalent.

#### HCA 6610 Program Evaluation Methods in Health Care (2)(SS)

Concepts of health "program," "objectives," and "evaluation" are defined in this course for the operational context of current applications by administrators and evaluation researchers. Various evaluation models and study designs are investigated to determine their relative value for the effectiveness, efficiency, adequacy, appropriateness, and side-effects of different program activities. The course uses case studies

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## School of Public Affairs and Services

## **Public Administration**

and student projects to test the strengths and weakness of various program evaluation models and methods. Prerequisite(s): HCA 6691 and HCA 6716.

#### HCA 6613 Design and Functional Planning of (2)(SS)Health Facilities

Architectural design, construction management, and functional program planning are surveyed in the building process of hospitals and other health care facilities. Corporate development practices are applied to capital financing, site preparation, legal and regulatory sanctions, work and materials scheduling, code and equipment requirements, traffic flows, and cost-saving strategies such as fast-track and modular units. Case studies and field visits are used to help students in their "studio" projects to design and program various proposed facility plans. Prerequisite(s): HCA 6691 or equivalent.

#### HCA 6615 International Health Planning and Programming (2)(F,SS)

This course prepares the student to appreciate the social, political, and cross-cultural aspects of international health care program planning and development found in selected countries of mixed-economies (e.g., Latin America and the Circum-Caribbean). The problems and "pitfalls" imbedded in the planning process at national and regional levels in these countries are the focus of cooperative approaches explored. Emphasis is placed on basic public health and environmental services or institutional and primary care as appropriately fits the stage of growth in undeveloped, developing, and developed countries. Prerequisite(s): HCA 6431 and 6114.

#### HCA 6718 Advanced Applications of **Operations Research**

(2)(F)This course teaches various advanced operations research and industrial engineering techniques for health care managers to apply in systems analysis and quantitative decisionmaking. Methods include game theory, graph and network analysis, critical path and PERT, queueing models, integer and nonlinear programming techniques, and computer simulation. Optimization techniques and the use of the simplex algorithm in problem-solving are examined as they apply to improved administrative functioning in health care settings. Prerequisite(s): HCA 6716 and 6717.

HCA 6905 Independent Study (2)(F,W,S,SS) This course is designed to allow students an opportunity for in-depth research or an action-oriented project carried out under the supervision of their faculty advisor. As an elective, an independent study should only be taken after substantial course work has already been completed in the program curriculum. In all cases preparation and approval for this course should be arranged during the academic quarter preceding the quarter planned for the study to begin. Prerequisite(s): Permission of faculty advisor and course coordinator.

### **Public Administration**

- J. Arthur Heise, Associate Professor and Chairperson
- Adam W. Herbert, Professor and Dean, School of Public Affairs and Services
- K. William Leffland, Professor and Dean, International Affairs Center
- G. Ronald Gilbert, Associate Professor
- Myung S. Park, Associate Professor
- Thomas J. Patka, Assistant Professor
- Ann-Marie Rizzo, Assistant Professor

Henry B. Thomas, Assistant Professor and Associate Dean, School of Public Affairs and Services

John G. Corbett, Visiting Assistant Professor

LOCATION: North Miami Campus-courses may be offered on the Tamiami Campus or other locations.

DEGREE: Bachelor of Public Administration

The Bachelor of Public Administration degree within the School of Public Affairs and Services is offered mainly for students interested in beginning a public service career upon completion of their undergraduate work but also for those who wish to continue in public administration on the graduate level.

Admission Requirements: A student who has completed an Associate of Arts degree at a Florida public community college, or has earned 90 quarter hours (60 semester hours) of college credit at any other accredited institution at an acceptable performance level.

#### LOWER DIVISION PREPARATION:

Included in the applicant's Associate of Arts degree or equivalent must be one year of English composition, American history, introductory algebra, and economics; and one course in American government, sociology and psychology. The entering student who has not taken these courses must enroll in appropriate courses at FIU. These courses must be taken in addition to the 90 quarter hours required for the B.P.A. degree.

UPPER DIVISION PROGRAM: Quarter Hours Required Courses: 35

PAD 3034	Public Policy and its Administration
PAD 3702	Quantitative Techniques for the Public Sector



	(prerequisites: STA 3122 or
	COP 3112 or equivalent)
PAD 4024	Concepts and Issues in
	Public Administration
PAD 4104	Organization and
	Administrative Theory
PAD 4223	Public Sector Budgeting
- PAD 4414	Personnel Skills for
	Administrators
PAD 4804	Government and
	Administration of
	Metropolitan Areas

NOTE: Students must maintain a 3.0 average in the seven required courses to be awarded the B.P.A.

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Area of Concentration Courses: Four courses are to be taken in a selected area of concentration relevant to public administration.

Option 1: The student can complete a recommended area of concentration integral to public administration in one of the following subfields: 

(a) Administrativ	e Theory and Behavior	
(Prerequisite:	(Prerequisite: PAD 4104)	
Two of the fo	llowing:	
PAD 4432	Administrative Leader-	
	ship and Behavior	
PAD 4103	Politics of Administrative	
	Organization	
PAD 3430	Personal Growth and Ad-	
	ministrative Development	
PAD 3003	Politics of Public Bureau-	
	cracy	
Plus two of th		
INP 3002	Introductory Industrial	
	Organizational Psychol-	
	ogy	
SOC 5261	Industrial Psychology	
S1C 4406	The Problems of Bureau-	
	cracy in the Modern	
	World	
(b) Public Person	nel (Prerequisite: PAD	
4414)		
Four of the fo	<u> </u>	
PAD 3413	Organizational Group	
	Processes	
PAD 5427	Collective Bargaining in	
	the Public Sector	
MAN 4320	Personnel Recruitment	
N ( 1 ) ( 1220	and Selection	
MAN 4330	Wage and Salary Admin- istration	
	(Continued)	
	(commund)	

## **Florida International University**

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## **Public Administration**

	MAN 4322	Personnel Information
		Systems (Prerequisites:
		CIS 3000 and MAN 4301)
	INP 4203	Personnel Psychology
	INP 3002	Introductory Industrial/
		Organizational Psychol-
		ogy
•	Urban Policy	and Administration
')	(Prerequisite:	
	Four of the fo	
	PAD 3033	Administrators and the
		Legislative Process
	PAD 4103	Politics of Administrative
		Organizations
	POS 3424	The Legislative Process
	POS 3122	State Government and
		Politics
	PUP 4314	American Ethnic Politics
	POS 4463	Interest Group Politics
	PUP 4203	Environmental Politics
		and Policy
	POS 3153	Urban Politics
	POS 4154	Topics in Urban Politics
		and Policy
ł)		Public Administration
	(Prerequisite:	PAD 3834)
	Four of the fo	
	MAN 4610	International and Com-
		parative Industrial Rela-
		tions
	INR 4283	International Relations,
		Development and the
	CPO 3002	Third World
	CFO 5002	Introduction to Compara- tive Politics
	INR 3002	Dynamics of World Polit-
		ics
	INR 4931	Topics in International
		Politics
	CPO 4034	The Politics of Develop-
		ment and Underdevelop-
		ment
:)	Public Budget	ing and Finance
1	(Prerequisite:	
	Four of the fo	
		Public Choice
	PAD 3204	Financing Public Organi-
		zations
	ECO 3101	Theory of Price
	ECO 4504	Public Choice and the
		Public Finances
	ECP 4222	Manpower Problems and
	100 1011	Programs
	ACC 5865	Governmental and Insti-
		tutional Accounting (Pre-
		requisite: ACC 4122 or
	ACC 2200	ACC 5311 or equivalent)
	ACC 3300 HCA 4203	Accounting for Decisions Health Care Financial and
	TICA 4203	
		Accounting Management

)	Public Sector	Analysis (Prerequisites:
	PAD 3034 and	1 PAD 3702)
	Four of the fo	llowing:
	CIS 3000	Introduction to Informa-
		tion Systems
	HSC 4201	Information Systems
	QMB 3150	Application of Quantita-
		tive Methods in Business
	COC 3400	Computers and Society
	HCA 4711	Quantitative Methods for
		Health Care
	STA 3163	Introduction to Statistical
		Analysis 1
	STA 3164	Introduction to Statistical
		Analysis II

Option 2: The student can select a recommended area of concentration in a functional area closely related to public administration. They include but are not limited to the following:

6.		
(a)	Criminal Justi	ce
	Two of the fol	lowing:
	CCJ 3020	An Overview of Criminal
		Justice Systems
	CCJ 3600	The Nature and Causes of
		Crime
	CCJ 3100	Law Enforcement Systems
	CCJ 3300	Correctional Philosophy,
		Theory and Practice
	And two of th	
1	POS 3603	Constitutional Law: Pow-
		ers
1	POS 3604	Constitutional Law: Limi-
		tations
1	POS 4284	Judical Behavior
1	POS 4493	Politics of Judical Admin-
		istration
(b) ,	Applied Urba	n Administration:
	Four of the fo	
	PAD 4603	Administrative Law
1	PUP 4520	Politics of Urban Trans-
		portation Decision-Mak-
		ing
I	ETC 3570	Introduction to Transpor-
		tation Systems
t	JRP 3000	Urban Planning Concepts
(	URP 4021	Urban Land Use Planning
ŀ	ARC 4335C	Site Development
E	POS 4154	Topics in Urban Politics
		and Policy: Urban and
		Environmental Policy and
		Design

(c) Social Work Students must take these required courses in sequence:

SOW 3113 Dynamics of Human Behavior in the Social Environment (Prerequisites: PSY 3013, DEP 3000 or their equivalents)

SOW 3232	Social Welfare Policy and
	Services 1
SOW 3313	Methods of Social Work
	Practice 1
Depending of	on the individual's interests
in the field,	he or she may select one of
	, with the approval of an ad-
visor:	
SOW 4125	Dynamics of Human Be-
	havior in the Social Envi-
	ronment
SOW 4233	Social Welfare Policy and
	Services 11 (Prerequisites:
	SOW' 3232, SOW 3511
	and SOW 3522)
SOW 4322	Methods of Social Work
	Practice 11 (Prerequisites:
	SOW 3313, SOW 4124 or
	their equivalents)

Option 3: The student can select an area of concentration to fulfill his/her personal needs by designing an individual program with the advice and approval of the public administration faculty.

#### Elective Courses:

Seven courses will consist of general coursework to be completed outside the Department of Public Administration. These courses are to be selected with the approval of the Department of Public Administration from offerings by the Departments of English, Economics, Mathematical Sciences, Sociology/Anthropology, Political Science and elsewhere.

### Master of Public Administration

LOCATION: Tamiami Campus, North Miami Campus, and off-campus locations.

#### DEGREE: Master of Public Administration

The Master of Public Administration degree within the School of Public Affairs and Services is offered to prepare individuals for successful public service careers. Given, on the one hand, the varying needs of the students, and on the other, the demand for highly qualified professionals, the MPA program is demanding but flexible. Therefore, the Department seeks serious students who challenge it to provide them with a genuine learning experience tailored to their individual needs.

Admission Requirements: All applicants must hold a baccalaureate degree from a regionally accredited college or university. In addition, each applicant must have a Graduate Record Examination (GRE) composite score of at least 1000 on the Verbal and Quantitative sections *OR* a grade point average (GPA) of 3.0 or bet-

## **Public Administration**

ter (on a 4.0 scale) for all college coursework on the junior and senior level. An applicant with a 3.0 GPA and above is still required under Board of Regents regulations to take the GRE.

#### Program of Study

The Master of Public Administration program is a 60 quarter hour program composed of five required courses (25 quarter hours) dealing with public administration: the political, social and economic environment; management theories and organizational behavior; financial processes; research methodology and public policy.

Required Cour.	ses: Quarter Hours
	. 25
PAD 6053	Political, Social and
	Economic Context of Public
	Administration
PAD 6106	Organizational Theory and
	Administrative Behavior .
PAD 6227	Public Finance and the
	Budgetary Process
PAD 6706	Research Methods in
	Complex Public
	Organizations
PUP 6005	Public Policy

Elective Courses The remaining 35 quarter hours can be earned by pursuing one of three different tracks. These tracks are based on the fact that in general terms the students in the program fall into two major categories: those who already have public sector experience, and those who wish to embark on public service careers but whose relevant experience is limited. To accommodate the diverse needs generated by those backgrounds, three tracks are included in the program.

Track 1 is aimed at persons seeking a more general background in public administration. Such students need to take at least one course from each of five modules encompassing different aspects of public administration. Those students who need to take courses in public personnel administration and quantitative methods may count these courses as part of the five they select from the various modules.

Track 11 seeks to accommodate students who wish to incorporate an internship into their program or those already at work in the public sector who wish to link their administrative experience to their MPA degree program. Students engaged in an approved internship program may take 1–10 quarter hours by enrolling in PAD 6946. Public Administration Internship. Working under close faculty supervision, these students will be expected to complete significant projects that relate their academic work to their real-life experience as an intern. A similar approach is used for those students already in a public sector position. Their work experience will be used in lieu of an internship. Those students may take 1–10 quarter hours by enrolling in PAD 6907. Independent Study in Public Administration. Also working closely with a faculty advisor, they, too, need to complete a significant project that evaluates their work-related experiences. All Track II students need to choose electives from two or more modules to complete the additional coursework needed for the 60 quarter hours required for the MPA.

Track III is for those students who wish to concentrate on a particular area relevant to public administration, for instance, public health management, public sector finance and accounting. criminal justice, social work, etc. In such cases. students may take up to 25 quarter hours from other departments within the university which offer courses relevant to the area of concentration. Students who select this approach must identify their area of concentration early in their course of study, and all courses to be taken outside the Department of Public Administration must be approved prior to registration. Any remaining course work required to complete the 60 quarter hour program is to be chosen from elective courses in Public Administration.

- Module I: Values and Administration
  - PAD 5041 Values and Technology in Modern Society
  - PAD 6035 Public Interest and the Public Trust
  - PAD 6042 Democracy and the Administrative State
  - PAD 6605 Administrative Law and Procedures
- Module II: Organizational Behavior
- PAD 5427 Collective Bargaining in the Public Sector
- \*PAD 6417 Public Personnel Administration
- PAD 6437 Dynamics of Individual Growth PAD 6109 Organizational Development and Change
- Module III: Quantitative
- \*PAD 6701 Quantitative Methods and Computer Skills
- CIS 6204 Management Information Systems
- PUP 6006 Public Policy Analysis and Evaluation
- Module IV: Administrative Issues
- PAD 5435 Administrator and the Role of Women
- PAD 5443 Public Administrator and Media Relations
- PAD 6043 Government and Minority Group Relations

Module V: State and Local Governments

- PAD 6816 Regional and State Government Administration
- PAD 6807 Urban and Municipal Government Administration
- Module VI: International
- PAD 6838 Development Administration
- PAD 6836 International Public Administration

\*All students will be required to demonstrate competence in quantitative methods and in public personnel administration. Otherwise they need to enroll in the courses designed to provide these skills. PAD 6701 and PAD 6417.

NOTE: Individuals taking courses as special students are reminded that only up to fifteen quarter hours can be transferred toward their degree after they have been admitted to the program.

### **Course Descriptions**

#### **Definition of Prefixes**

CIS-Computer and Information Systems: MAN-Management: PAD-Public Administration: PUP-Public Policy.

#### CIS 6204/MAN 6830 Management Information Systems

(5)

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 3033 Administrators and the Legislative Process (5)

A study of executive-legislative interactions; the impact of legislation and legislative processes on administrative policy decision-

making and implementation; the influence of administration on the legislating process.

#### PAD 3034 Public Policy and Its Administration

(5)

Examines the formulation, implementation and evaluation of governmental efforts at federal, state and local levels.

PAD 3204 Financing Public Organizations (5) Financial management in public organizations. The securing of funds through taxes and bond issues. The management of funds, and expenditure decisions.

## **Public Administration**

PAD 3413 Organizational Group Processes (5) The impact of various organizational climates, tasks, roles and reward systems, on the behavior of both the individuals and groups of employees in public organizations. Particular attention is given to alienation and motivation in job effectiveness and Public Service.

### PAD 3430 Personal Growth and

**Administrative Development** (5) The administrator as a person. Development of interpersonal skills. Self evaluation and career planning. Training and education for the public service sector.

### PAD 3702 Quantitative Techniques for the **Public Sector**

Quantitative techniques useful to public administration, non-parametric techniques, probability concepts, and decision techniques are presented, as well as concepts underlying the use of data systems. Prerequisites: STA 3122, or COP 3112, or equivalent.

### PAD 3834 International Comparative

Administration (5) This course is an introduction to a wide range of scholarly and practical ("applied") interests. Emphasis is on institution-building and development administration, particularly within the Third World countries.

#### PAD 4024 Concepts and Issues in Public Administration

(5) The function of administrative institutions in society. The growth of administration through the bureaucratic model both as an art and a science. Contemporary and comparative forms and theories of organization. Responsibilities of public servants.

PAD 4032 Public Choice

(5)

(5)

Some historical analysis of the origin and concept of the public interest in public administration. The various formulations of public administration as a concept, and contemporary interpretations of same. Specific role definitions and concepts of the public interest and public policy.

#### PAD 4040 Public Values, Ethics and Morality in Changing Environment (5)

Theories of value: ethical systems and their influence on administration, behavior and process: the administrator as an ethical actor: value conflict and resolution; the philosophical basis of American thought.

#### PAD 4103 Politics of Administrative Organization

(5)The role of political processes in relationship to public organizations and the types of intra- and inter-organizational politics which are unique to public organizations. Effects of these political processes upon organizational performance and their role in promoting or thwarting organizational change.

### PAD 4104 Organization and Administrative

Theory (5)Historical survey of theories of public organization and of contemporary and emerging theories and management issues. With special attention to the role of bureaucratic theory and

behavior. Case investigation of bureaucratic experience in federal, state and local levels will be conducted.

#### PAD 4110 Administrative Interaction in the **Public Sector** (5)

Definition and analysis of administrative interfaces with multiple and varied public and private organizations. A study of the role expectation, pressures and opportunities of the administrator in a complex environment.

#### PAD 4223 Public Sector Budgeting (5)The theory and practice of various approaches to budgeting, including time-item, performance, PPBS budgeting. Special emphasis on the role of the budget in shaping the program and performance and policy direction of public organizations.

#### PAD 4414 Personnel Skills for Administrators

(5)

(5)

(5)

(5) The general nature of public personnel administration; the development of the civil service system; concepts and issues currently applicable at the federal, state and local levels of government.

#### PAD 4415 Administration of Personnel Resources

Problems of training in government service and management of human resources development; the concept of civil service career systems; evaluation of public personnel systems; human relations in supervision; and personnel theory are examined.

#### PAD 4432 Administrative Leadership and Behavior

Designed to expose students to a systematically related set of concepts for diagnosing human behavior in organizations; and to establish a positive value for the analysis of problems involving people, structure, environment, task technology, and situational climate.

### PAD 4603 Administrative Law

Surveys the principles of law from the perspective of the public administrator; administrative procedure; procedural due process; delegation of legislative power; regulatory administration; conflict-of-interest statutes, etc.

#### PAD 4804 Government and Administration of (5) **Metropolitan Areas**

intensive analysis of administrative An

problems in large complex urban areas encompassing many political entities. Examines overlapping relationships among municipalities with special attention given to Dade County as well as current trends in public management and future directions for change.

### PAD 4905 Independent Study in Public

Administration (1 - 10)Individual conferences, supervised readings; reports on personal investigations; and similar undertakings. Prerequisite: Consent of faculty sponsor and Department Chairperson required.

#### PAD 5041 Values and Technology in Modern Society (5)

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 5427 Collective Bargaining in the Public Sector (5)

The course deals with the nature and implications of collective bargaining for managers and employees in (and students of) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

#### PAD 5435 Administrator and the Role of Women

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**

(5)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 6035 Public Interest and the Public

Trust (5) Analysis of the meaning of the public interest, using both experimental and cognitive tools. The purpose is to allow individuals in the

(5)

## **Public Administration**

course to clarify their current definitions of the concept, and to be exposed to alternative points of view. The course is intended for everyone in the public sector, and all those who have the term "public" in their repetoire of justifications.

#### PAD 6042 Democracy and the Administrative State (5)

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 6043 Government and Minority Group Relations (5)

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 6053 Political, Social and Economic **Context of Public Administration**

(5)

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 6106 Organization Theory and

(5) Administrative Behavior Historical perspective and philosophical foundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, socio-psychological aspects of organization and management.

#### PAD 6109 Organizational Development and Change (5)

Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.

#### PAD 6227 Public Finance and the Budgetary (5) Process

Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in intergovernmental financial relations.

PAD 6417 Public Personnel Administration (5) This course focuses on the fundamentals of public personnel administration applied to general and specific issues of civil service. Some of the specific issues which will be considered are: the merit system and civil service history and development; manpower development and training; the application of the behavioral approach in personnel administration; unique public personnel management problems; governmental unionization and collective bargaining; and future perspectives in personnel administration.

PAD 6437 Dynamics of Individual Growth (5) 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

(5)Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive order process; the relationship between administrative law and the checks-and-balance system; discretionary justice; and others.

### PAD 6706 Research Methods in Complex

**Public Organizations** (5)Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contemporary critiques on research design.

PAD 6807 Urban and Municipal Government Administration 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 (5)

Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policy-making.

### PAD 6836 International Public Administration

(5)

The role of public administration systems around the world; and the impact of political and socio-cultural frameworks on administration. Focus on national and state organizations' politics, economics, problems, and possibilities. A review of scope and programs of contemporary international public administration organizations.

PAD 6838 Development Administration (5) 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 6907 Independent Study in Public (1 - 10)Administration

Individual conferences; supervised readings; reports on personal investigations and similar undertakings. Consent of faculty sponsor and Department Chairperson required.

#### PAD 6915 Independent Research in Public Administration (1 - 10)

An individualized research project and report which, if feasible, should include field work with a public organization. Permission of a faculty advisor is required before registering for the course, which should be taken during the last half of the student's graduate program.

### PAD 6946 Public Administration

(1 - 10)Internship Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public ad-

## Social Work 🗸

ministration program. Consent of faculty advisor and Department Chairperson required.

#### **PUP 6005 Public Policy**

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, rationality versus extrarationality, policy environments, and policy roles of proactive public administration) are examined.

### PUP 6006 Public Policy Analysis and Evaluation

Evaluation (5) 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 nthorder consequences of policies will be analyzed.

### QMB 6603 Quantitative Methods in

Management (5) Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. (No credit will be given to students who have had undergraduate or graduate equivalents.)

### **Social Work**

L. Yvonne Bacarisse, Associate Professor and Chairperson Sanford Kravitz, Distinguished Professor Monte Koppel, Professor Rachel Marks, Professor James E. Garrett, Associate Professor Rosa Jones, Associate Professor Julia Nooe, Associate Professor Magaly Queralt, Associate Professor Betsy Smith, Associate Professor Esther Eichenbaum, Assistant Professor Mary Helen Hayden, Assistant Professor Ana Rivas-Vazquez, Visiting Assistant Professor

The program offers an integrated educational experience that combines the theoretical and the practical. It is designed to prepare the student for beginning professional practice in social work, for entrance into a graduate school of social work, and for participation in society as an informed citizen.

The six-quarter program includes a sequence of academic courses and field instruction under qualified supervision in social agencies in South Florida. The program is accredited by the Council on Social Work Education.

LOCATION: North Miami-Courses may be offered on Tamiami Campus or other locations. DEGREE: Bachelor of Science in Social Work

LOWER DIVISION PREPARATION:

The student desiring to major in social work must have completed the Associate of Arts degree at a Florida public community college, or equivalent work from an accredited institution.

Required Courses: Before admission to the social work program, the student must complete courses in introductory psychology, statistics, American government, and principles of economics, and two courses in sociology.

UPPER DIVISION PROGRAM:

		ter Ha	
Required Cou			70
Core Courses			65
SOW 3113	Dynamics of Human		
	Behavior in the Social		
	Environment I	5	
SOW 3232	Social Welfare Policy		
	and Servicees 1	5	
SOW 3302	Introduction to Social		
	Work Philosophy and		
	Practice	5	
SOW 3313	Methods of Social Work		
	Practice 1	5	
SOW 3511	Field Experience 1	9	
	Integrative Field		
	Seminar 1	1	
SOW 4125	Dynamics of Human		
	Behavior in the Social		
	Environment II	5	
SOW 4233	Social Welfare Policy		
	and Services 11	5	
SOW 4322	Methods of Social Work		
5011 1522	Practice II	5	
SOW 4332	Methods of Social Work	-	
5011 4552	Practice III	5	
SOW 4403	Methods of Community	5	
5011 4405	Research	5	
SOW 4512	Field Experience 11	9	
SOW 4512	Integrative Field		
50 W 4525	Seminar II	1	
Courses in Ar	other Discipline:	1	5
	Racial and Cultural		3
AN 1 4451	Minorities	5	
500 1715	Minorities (Race and	5	
SUC 4745		5	
500 4746	Ethnic Relations) Social Conflict in Multi-		
SUC 4746	Ethnic Societies	5	
Fl		3	
	h approval of the faculty		20
advisor			20

Remarks: Students should be aware that courses in this program are sequenced. Students

90



must check with their advisors for pre- and corequisite courses.

### **Course Descriptions**

Definition of Prefixes SOW-Social Work.

SOW 3113 Dynamics of Human Behavior in the Social Environment I

(5)(F,W,S)

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An examination of the psychosocial foundations of social work practice, focusing on the analysis of factors affecting human development and functioning in relation to social systems. Prerequisite: PSY 3013, or equivalent.

#### SOW 3203 Historical and Philosophical Perspectives of Social Welfare Services

Services (5) This course is a sequential and cumulative examination of social welfare and the changing role of social work. The focus is on creating awareness in the individual in relation to the question, "How do we want to live?"

#### SOW 3232 Social Welfare Policy and Services I (5

(5)(F,W,S)

This course considers the major social welfare programs in the United States: how they emerged and developed, and how they operate today. Analysis of financial resources, decisionmaking processes, and structure of delivery systems serves as a basis for understanding policy assessment.

### SOW 3302 Introduction to Social Work Philosophy and Practice

(5)(F,W,S)

This course presents the student with a didactic and experiential framework as a basis for contemporary social work practice. In this course students will have an opportunity to integrate selected philosophical and ethical concepts of social work practice with structured interpersonal exercises.

### SOW 3313 Methods of Social Work

Practice 1 (5)(F,W,S) An overview of social work intervention for the beginning practitioner. Generic values, attitudes and processes in client-worker relationship-building are discussed and analyzed. Authentic case material is utilized to acquaint students with assessment, modes of interven-

## Social Work

tion, goal setting, and implementation. Prerequisites: SOW 3113, SOW 3232, SOW 3302, or their equivalents.

SOW 3350 Techniques of Interviewing (5) A competency-based course designed to provide students with basic interviewing skills. Emphasis is on acquisition of interview behavior rather than theory. Audio and videotaping, role-playing, simulations, and micro-counseling training methods will be utilized. Prerequisites: SOW 3113 and permission of Instructor.

SOW 3511 Field Experience 1 (9)(F.W.S.SS) This is the first 210-clock hour social work practice experience in service to individuals, groups, and/or communities. Placement in an agency or institution is for the purpose of gaining a first-hand awareness of needs and behavioral responses, as well as a knowledge base of expectations, responsibilities, and activities involved in the delivery of social services. This experience facilitates the development of beginning social work skills, and a continually growing awareness of self as a helping person. Majors only. Prerequisites: SOW 3113. SOW 3232, SOW 3313, SOW 3302, SOW 4125, and 4403, or their equivalents. Corequisites: SOW 3522 and SOW 4322.

### SOW 3522 Integrative Field Seminar 1

(1)(F,W,S,SS)

This course is one-hour seminar, to be taken concurrently with SOW 3511 and SOW 4322, designed to analyze the field experience and integrate theory and practice. It provides an arena for students from various settings to come together in order to provide a richer understanding of social services on all levels. Majors only. Prerequisites: SOW 3113, SOW 3232, SOW 3313, SOW 3302, SOW 4125, and 4403, or their equivalents, Corequisites: SOW 3511 and SOW 4322.

### SOW 3703 Self-Awareness, Self-Modification, and Service (5)

An experience oriented course directed toward helping students become aware of their own intrapersonal and interpersonal processes and how these may influence their skill and effectiveness as professional helping persons. Emphasis is on personal learning.

### SOW 3949 Co-Operative Education-Social Work 1 (5)(F,W.S.SS)

A special program permitting social work majors to work in social agencies during alternate quarters, up to a maximum of two quarters. Written reports and supervisory evaluations will be required. This experience may not be substituted for SOW 3511 or SOW 4512. Prerequisites: Three social work courses and permission of Chairperson.

### SOW 4125 Dynamics of Human Behavior in the Social Environment II

(5)(F.W.S)

(5)

Within the framework of the life cycle, the content of this course focuses on the study of selected client systems frequently encountered by social work practitioners. Emphasis is placed on UNDERSTANDING bio-psycho-socio-cultural factors contributing to problems. Prerequisite: SOW 3113 or its equivalent.

### SOW 4193 The Systems Approach in the Social Services

This course will focus on general systems theory and its consequences for a revision of the world picture. Emphasis will be on the significance of the systems approach in models elaborated for social service systems. Prerequisite: Permission of Instructor.

### SOW 4233 Social Welfare Policy and Services II (5)(F.W.S)

This course considers characteristics and processes common to organizations within the social service system, and the impact of policy decisions on individuals and groups. A systems approach will be used as a basis for understanding strategies for innovation and change. Prerequisites: SOW 3232, SOW 3511, and SOW 3522.

SOW 4242 Child Welfare (5)(F.S) This course deals with legal principles upon which the child welfare system has been built: and the policies and issues that arise in planning services for children in their own homeshomemaker service, day care, and protective services-and in various types of substitute care –foster or adoptive homes and institutions. Prerequisites: SOW 3113 and SOW 3232, or their equivalents.

### SOW 4322 Methods of Social Work

Practice II (5)(F,W.S.SS) This generic skills course is designed to provide students with the theories and techniques of social work practice as applied to small groups. Prerequisites: SOW 3313 and SOW 4125 or their equivalents. Corequisites: SOW 3511 and 3522.

### SOW 4332 Methods of Social Work

Practice III (5)(F.W.S.SS) Provides an understanding of planned change at the community level from a social work perspective, as well as strategies and methods utilized in community organization practice. Identification of generalist skills and prevalent models of community organization in social work practice. Prerequisites: SOW 3511. SOW 3522, SOW 4322. Corequisites: SOW 4512 and 4523.

#### SOW 4403 Methods of Community Research

Research (5)(F,W,S) Introduction to basic skills of research for beginning social work practitioners: background searching, definition of variables, sampling, analysis of data, data depiction, and report writing. This course is also designed to enable social work students to read research articles more critically. understand reports of results, and evaluate evidence for hypotheses. Prerequisites: SOW 3113 and SOW 3232.

SOW 4512 Field Experience II (9)(F,W,S.SS) This second 210-clock hour supervised social work practice experience enables the student to progress toward a higher level of awareness and understanding of needs and behavioral responses. Generic skills are applied more selectively with increasing interest and proficiency in one or more practice areas. This second placement affords the student an opportunity to become a more effective part of the social service delivery system. Majors only. Prerequisites: SOW 3511. SOW 3522, and SOW 4322. Corequisites: SOW 4332 and SOW 4523.

### SOW 4514 Field Experience III

(5 or 10)(F,W,S,SS)

This third supervised social work practice experience makes it possible for students to sharpen diagnostic skills and to refine planning and implementation of appropriate helping techniques as these relate to individuals, groups, and/or communities. Majors only. Prerequisites: SOW 4512, SOW 4332, and SOW 4523, or their equivalents.

### SOW 4523 Integrative Field Seminar II

(1)(F,W,S,SS) This course is a one-hour seminar to be taken concurrently with SOW 4512, designed to analýze the field experience and integrate theory and practice. It provides an arena for students from various settings to come together in order to provide a richer understanding of social services on all levels. Majors only. Prerequisites: SOW 3511, SOW 3522, and SOW 4322, or their equivalents. Corequisites: SOW 4332 and SOW 4512.

SOW 4621 Crises in the Lives of Women (5) Introduction to special experiences in the lives of women which might lead women to seek supportive counseling or other professional assistance. Topics include rape, abortion, sex discrimination, menopause, childbirth.

SOW 4905 Individual Study (1-10) Individually selected program of supervised personal study related to specific social issues. Prerequisite: Permission of instructor.

(5)

(5)

(5)

(5)

## Social Work

### SOW 4675 Social Work Philosophy and Values

This course is designed to investigate philosophical and social thought in order to explore concepts of social welfare and to assist students in the identification and clarification of values inherent in the social work profession. Prerequisites: SOW 4512, SOW 4523, and SOW 4332.

### SOW 4949 Co-Operative Education-Social Work II (5)(F,W,S,SS)

A continuation of SOW 3949. Prerequisites: SOW 3949 and permission of Chairperson.

SOW 5217 Seminar in Social Work (5) An exploration of various critical issues of concern to the social work profession. Prerequisite: Permission of instructor.

### SOW 5272 Social Welfare: Cross-Culture

Comparisons (5) A seminar in which students will analyze and compare social welfare policy, problems, and programs in various countries. This course is designed for seniors and graduate students. Prerequisites: SOW 3232 and SOW 4233, or permission of the instructor.

#### SOW 5280 Legal Issues in Social Work Practice

This course will introduce the student to important legal aspects of social welfare policy, of social services, and of client rights. It should enable the social worker to provide knowledgeable referrals to legal services and interact effectively with courts and legal counsel. Prerequisite: Permission of Instructor.

### SOW 5351 Intervention Strategies in

Marriage and the Family (5) This advanced practice course will help the student understand and apply various means of intervention with the problem family. Emphasis will be placed on the marital partners as the core subsystem of the family. Attention will be given to various family therapy theorists. Prerequisite: Permission of the instructor.

#### SOW 5354 Techniques for Prevention and Early Intervention

Early Intervention(5)This course has been designed to enable the stu-<br/>dent to learn about crisis intervention etiology,<br/>structure and theory so he/she may acquire<br/>some beginning practical knowledge in a sub-<br/>specialty. This course is designed for seniors<br/>and graduate students. Prerequisites: SOW<br/>3313 and SOW 4332, or permission of instruc-<br/>tor.

#### SOW 5435 Evaluating Social Service Programs I

Introduction to experimental and quasi-experimental designs and measurement techniques suitable for evaluation of social service programs. Field experience in defining agency or program goals objectively and designing an actual program evaluation are provided. This course is designed for seniors and graduate students. Prerequisite: SOW 4403 or equivalent.

(5)

### SOW 5436 Evaluating Social Service Programs II

Implementation of program evaluation proposal generated in SOW 5435. This seminar will provide actual field experience in data collection, analysis, and program evaluation report writing. Prerequisite: SOW 5435.

### SOW 5643 Understanding the Process of Aging

This course is designed to develop an understanding of the multiple psychosocial problems experienced by the aging person, and the impact of such on the older person's physical and emotional well-being. Such an understanding will facilitate the helping person's ability to evaluate and intervene with behavior responses exhibited by the elderly. Prerequisite: Senior or graduate standing.

#### SOW 5684 Professional Values in the Human Services (5)

This course is designed to assist students in identification, exploration, and experiencing the values inherent in professionalism, as they are manifested in the various human service professions. Material will be presented in a didactic and experiential manner with a heavy emphasis upon student involvement in the value clarification process. Prerequisite: Senior or graduate standing.

SOW 5914 Independent Research (1–10) Individually selected program of supervised data collection and analysis. Prerequisite: SOW 4403 or permission of instructor. Florida International University NE 151st Street & Biscayne Blvd. North Miami, Florida 33181

## School of Public Affairs and Services

Dean	Adam W. Herber
Chairpersons:	
Criminal Justice	Robert E. Snow
Health Services	
Administration	Thomas M. Dunaye
Public Administration	J. Arthur Heise
Social Work	L. Vyonne Bacariss

### Faculty

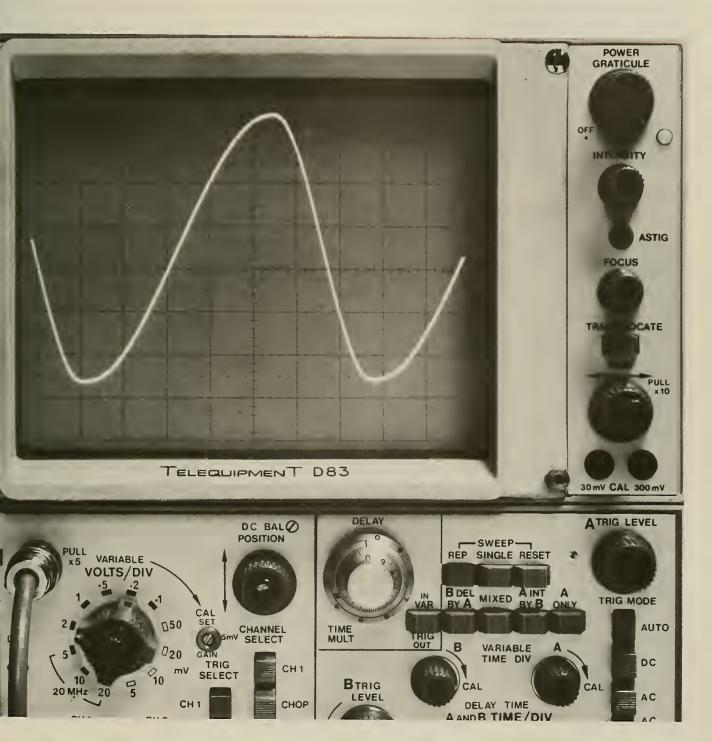
- Bacarisse, L. Yvonne, M.S.W., A.C.S.W. (Tulane University), Associate Professor and Chairperson, Social Work
- Berger, Raymond, Ph.D. (University of Wisconsin at Madison), Assistant Professor, Social Work
- Caro, Denis H. J., Ph.D. (University of Minnesota), Assistant Professor, Health Services Administration
- Clark, Harcourt I., M.P.A. (Florida International University), Assistant Professor, Criminal Justice
- Clark, Robert S., Ph.D. (New York University), Professor, Criminal Justice
- Dunaye, Thomas M., Dr.P.H. (U.C.L.A.), Professor and Chairperson, Health Services Administration
- Eichenbaum, Esther, M.S.W., A.C.S.W. (Colunibia University), Assistant Professor, Social Work
- Gilbert, G. Ronald, Ph.D. (University of Southern California), Associate Professor, Public Administration
- Hayden, Mary Helen, M.S.W., A.C.S.W. (Flarida State University), Assistant Professor, Social Work

- Heise, J. Arthur, Ph.D. (Syracuse University), Associate Professor and Chairperson, Public Administration
- Herbert, Adam W., Ph.D. (University of Pittsburgh), Dean and Professor, School of Public Affairs and Services
- Jones, Rosa L., M.S.W., A.C.S.W. (Florida State University), Associate Professor and Director of Field Instruction, Social Work
- Koppel, Monte H., Ph.D., A.C.S.W. (New School for Social Research), Professor, Social Work
- Kravitz, Sanford L., Ph.D. (Brandeis University), Professor, Social Work
- Lerner, Herbert J., Ph.D. (New York University), Professor, Health Services Administration
- Lewis, Ralph G., Ed.D. (New York University), Associate Professor, Criminal Justice
- Marks, Rachel B., Ph.D. (University of Chicago), Professor, Social Work
- Marques, Jose A., M.S.W., A.C.S.W. (Barry College, Mianii) J.D. (University of Havana), Associate Professor and Director of Field Internship, Criminal Justice
- Nooe, Julia A., M.S.W., A.C.S.W., C.S.W. (Tulane University), Assistant Dean and Associate Professor, Social Work
- Ortiz-Morales, Maria B., M.P.H. (University of Pittsburgh), Associate Professor, Health Services Administration
- Park, Myung, Ph.D. (University of Southern California), Associate Professsor, Public Administration
- Patka, Thomas, Ph.D. (Syracuse University), Assistant Professor, Public Administration

Pendergrass, Virginia E., Ph.D. (Ohio University), Associate Professor, Social Work

- Queralt, Magaly, M.S., Ed.S. (Barry College), Associate Professor, Social Work
- Richie, Nicholas D., Ph.D. (University of Michigan), Associate Professor, Health Services Administration
- Rizzo, Ann-Marie, Ph.D. (Syracuse University), Assistant Prafessor, Public Administration
- Salas, Luis P., J.D. (Wake Forest University), Assistant Professor, Criminal Justice
- Schneider, Ronald, Ph.D. (University of Southern California), Assistant Professor, Criminal Justice
- Shearn-Perry, Regina B., Ph.D. (Florida State University), Associate Professor, Criminal Justice
- Smith, Betsy A., Ph.D. (State University of New York at Buffalo), Associate Professor, Social Work
- Snow, Robert E., J.D. (Florida State Univer-
- sity), Associate Professor, Criminal Justice
- Solomon, Sylviane M., M.B.A., (University of Miami), Assistant Professor, Health Services Administration
- Thomas, Henry B., D.P.A. (University of Southern California), Associate Dean and Assistant Professor, Public Administration
- Traxler, Herbert G., Ph.D. (Florida State University), Assistant Professor, Health Services Administration
- Tuckfield, Jack G., Ed.D. (Florida Atlantic University), Assistant Professor, Criminal Justice
- White, Vandon E., Ph.D. (Purdue University), Professor, Health Services Administration
- Wilbanks, William, Ph.D. (State University of New York), Associate Professor, Criminal Justice

# School of Technology



## **General Information**

The School of Technology offers programs leading to the bachelor's degree in ten fundamental technical fields: engineering technology, industrial systems, construction, home economics, communications technology, medical records administration, dietetics and nutrition, medical technology, occupational therapy, and physical therapy. The School of Technology also offers programs of study leading to the graduate degrees of Master of Science in Dietetics and Master of Science in Environmental and Urban Systems. Undergraduate Professional Certificate Programs are available in-Apparel Management, Industrial Safety, Food Technology, Industrial and Labor Relations, Production and Manufacturing, and Heating, Ventilation & Air Conditioning Design.

### Programs

The programs of the School are directed toward the practical use of scientific, engineering and technical principles to meet the objectives of industry, business, and the public. Many programs offer an experiential component concurrently with classroom instruction. Clinical affiliations and field placements are available in local community agencies and businesses as well as other locations in Florida and throughout the U.S.

The School provides each student with the opportunity to develop marketable skills and to obtain an education which will prepare him or her for a rewarding career and promote satisfying personal growth.

Underlying the programs of the School is a recognition of the growing impact of technology upon the quality of life and that the proper application of technology is critical to meeting current and emerging needs of man.

The academic programs of the School are provided by its ten programs and are listed below. Most programs have several specified majors as well as a non-structured department major to meet the needs of individuals.

### **Bachelor's Degrees**

The School awards the Bachelor of Science degree (B.S.) to students who complete the prescribed requirements in Engineering Technology (Electrical, Mechanical, Civil, Construction, Environmental and Urban Systems), Construction Management, Architectural Technology, Home Economics, Interior Design, Dietetics and Nutrition, Medical Technology, Occupational Technology, Physical Therapy, Communications Technology, or Medical Records Administration. A student enrolled in Industrial systems may qualify for the Bachelor of Science degree or the Bachelor of Technology (B.T.) degree, depending on the nature of his or her individualized program of study.

### General Bachelor's Degree Requirements

In order to obtain a bachelor's degree from the School of Technology, each student must satisfy the following minimum requirements:

- Obtain a minimum of 180 quarter credits including transfer credits. Some students require more than the minimum program in order to obtain the competencies and objectives of their selected major.
- 2. Complete at least 45 credits in the School of Technology.
- 3. Attain a minimum grade-point average of 2.0 on all School of Technology courses. A grade of "D" in any course taught by the School of Technology and listed as a major requirement may not be counted for graduation. Those receiving "D" in such courses must repeat them or obtain a waiver from the advisor to substitute another course.
- 4. Satisfy the general education requirements for the bachelor's degree by taking those courses at the community college or by a combination of transfer, CLEP and course credits awarded by the University.
- 5. Satisfy the particular requirements for his or her own major and all University requirements for graduation.
- 6. Complete an approved *program of study* which must be filed with the advisor by the time the student attains senior status (135 cr.) or at least two quarters prior to application for graduation.
- Have proficiency in the use of language and mathematics appropriate to his or her program and career objectives.

### **Cooperative Education**

A Cooperative Education (Co-Op) Program is conducted by the School of Technology in conjunction with the Department of Cooperative Education in the Division of Student Affairs. In this program, a student spends alternate quarters in school full-time and fully employed in industry in a technical position directly related to his or her major. Academic credit (normally, 5 credits per quarter) which counts toward the degree is given for the work periods. The student receives full pay for his or her work in industry. Placement in co-op positions is arranged by the Co-op Program and includes both local and national industrial, business and governmental agencies. A Co-op student normally must agree to spend at least three work periods in industry and ean, normally complete the upper-division program within two calendar years. An applicant for the Co-op Program is evaluated by the School of Technology. An interested student should contact the Assistant Dean. Because of the requirement for three work periods, a student should enter the program during the first quarter of the junior year. Inquiries from lower-division students prior to transfer to the University are particularly encouraged, since work may be arranged immediately upon enrollment.

### **External Degree**

The School participates in the External Degree Program of the University and the External Degree student may enroll in a department major. Because of the technical and laboratory requirements.of most programs, the School will consider admission of a student to its External Degree Program only under these conditions:

- 1. Completion of two years of college, preferably with a technical associate degree.
- 2. The inability to attend the regular program.
- Substantial work experience, with increasing responsibility, in the technical discipline of the proposed major.
- 4. A favorable evaluation of the probability of completing the program and the availability of the necessary resources (at this University and at an external site) for the program.

### Admissions and Program Planning-Bachelor's Degree Admission Requirements

All bachelor's degree programs of the School are designed to integrate the community college graduate or junior-level transfer student into curricula which have established certain minimum competencies or skills as the requirements for the four-year degree. Consequently, requirements may be met in a variety of ways and through various sequences which are accommodated at the freshman and sophomore level by college parallel (A.A.) and technical (A.S.) programs of the community colleges and by fouryear colleges. The School admits to full junior standing a student who meets one of the following requirements:

- 1. Associate of Arts Degree from an accredited community college, or . . .
- Associate of Science Degree from an accredited community college in the technical discipline of their proposed upper level major, or equivalent (the student with a non-technical A.S. degree should consult the Dean's

## **General Information**

Office for assistance and may be admitted to certain programs,) or ...

3. Junior Level (90 qtr. hr. cr.) in good standing at a four-year college.

Others will be considered as exceptions on an individual basis. A student transferring with the *Associate's* Degree (A.A. or A.S.) is normally awarded 90 transfer credits toward the bachelor's degree. A transfer student from a four-year college may not receive more than 135 credits of transfer toward the bachelor's degree. The transferability of upper-level technical courses is determined by the advisor and is a part of the establishment of the student's program of study.

A student earning the Associate of Science Degree should attempt to obtain as many of the general education requirements as possible at the community college, by careful selection of electives. The college parallel student planning to major in Technology should select a pre-professional or pre-science major or should take math, science, and related electives in order to insure rapid progress after transfer.

### **Program of Studies**

The requirements for the various majors in Technology are described in terms of fundamental competencies which may be met through specified courses at the University or demonstrated in other ways. These alternative demonstrations include completion of equivalent courses at other colleges, significant and varied work experiences, and non-traditional learning experiences. Since each student may meet requirements in a unique way, based on his or her individual background and experience, each student is required to arrive at a program of study which establishes the specific requirements of his or her degree. The program of study must be approved by both the advisor and student and must be completed by the time the student reaches senior standing (135 hours) or at least two quarters prior to application for graduation. A student who does not comply with this requirement may delay his or her graduation.

### **Department** Majors

Some departments offer a non-structured major in addition to its prescribed majors. The student selecting a department major develops an individualized program of study with an advisor which becomes the degree requirement after it has been approved by the School. A department major must satisfy all the graduation requirements of the School and University in a *planned* program. The School assumes no responsibility to apply courses to a department major which are taken prior to formal approval of a program of study. The department major is provided to meet special needs; consequently, most students will be enrolled in the structured majors and the School of Technology does not approve a department major unless special needs exist which it can meet. Some students in Industrial Systems enroll in the department major and receive individualized programs of study. In order to obtain the *Bachelor of Science* degree in a department major, the student must normally complete a program including substantial coursework in mathematics, science and related technology.

### **Academic Advisors**

A student who has been accepted to a degree program in the School of Technology must obtain and consult an advisor *prior* to the first class enrollment. An advisor may be obtained by contacting the Office of the Dean or the Chairperson of the Department in which an academic major is desired. Continued contact (at least once per quarter) with the advisor is urged in order to review progress and register for each succeeding quarter. Such contact is *required* until an approved program of study is completed. Special problems of the student who is undecided about a technology major may be referred to the Assistant Dean.

### **Credit for Experience**

The School will consider awarding credit for experience of three basic types:

- A. Compressed courses or training programs such as college seminars, short courses, company seminars, company schools, union apprenticeship schools, and military technical schools.
- B. Regular courses taken from technical institutes or other institutions where normal transfer credit is not applicable.
- C. Work experience wherein the student gains applicable skills and knowledge.

Such credit may be awarded through examination or evaluation of work products. Evaluation of credit for life experience is, of necessity, a very rigorous process with awards given only for significant experiences that are fully documented and applicable to the student's program. Normally, evaluation is based on equivalency to courses required for graduation and credit is limited to a maximum of 25 quarter hours. A student must be fully accepted to a degree program and must have completed at least two quarters of upper-division work (25 hrs.) prior to evaluation of experience for credit. The student wishing consideration for such credit should discuss it with his or her advisor.

### Academic Appeal Procedure

The School endeavors to provide an atmosphere in which the special needs of each student are served. In the event that a student has difficulty in a class or curriculum matter, this should be immediately brought to the attention of the instructor or advisor involved. If resolution is not possible in this way, the student should call the matter to the attention of the responsible department chairperson. If the problem still cannot be resolved, the student may appeal to the Dean of the School by stating the grievance in writing and requesting a review. The Dean may hear an appeal or refer the matter for consideration to an Appeals Committee appointed for that purpose.

### **Special Features**

The School is actively engaged in a number of special programs as a service to the community and the University. One of these activities is a Technical/Vocational Education program in cooperation with the School of Education. The Construction Department hosts the International Association for Housing Science, an organization with membership from more than twenty nations, dedicated to improving housing technology and production, as well as studying the inter-disciplinary aspects of housing. The Engineering Technology Department has developed and supports environmental research activities. The School provides numerous special courses and training institutes in cooperation with other university organizations. The technology faculty is actively engaged with business, industry and government seeking the solutions to technical and operational programs. They are participating in a variety of applied research projects in such areas as energy, low-cost housing, transportation, solid waste disposal and water resources.

A Drinking Water Research Center was established within the School in 1976 to conduct research to determine methods for producing high quality drinking water.

## Master of Science Degree Programs

The School has two approved Master of Science degrees, Environmental and Urban Systems, and Dietetics. Prospective graduate students should contact the coordinator of the M.S. programs in Engineering Technology or in Dietetics and Nutrition.

### School of Technology

## Communications

### **Admission Requirements**

To be eligible for admission to the Master of Science degree programs, the student must meet the general admission standards of the University and of the program to which he/she is applying. University standards are as follows:

- 1. A bachelor's degree or equivalent from a regionally accredited university or collete.
- 2. A grade point average of 2.0 on a 3.0 scale, ("B" averate) while registered as an upper division student studying for a bachelor's degree or a combined score of 1000 (quantitative and verbal) on the Graduate Record Examination.

Specific standards of admission for each graduate programs are described in the appropriate sections of this catalogue. For the M.S. in Environmental and Urban Systems, see Engineering Technology. For the M.S. in Dietetics, see Dietetics and Nurtition.

### **Communications Major**

James E. Couch, Associate Professor and Program Director

Eric S. Katz, Assistant Professor

Fran Assalone, Visiting Instructor

The Communications Program offers a wide variety of experiences to students interested in a career in advertising, broadcast production or news, print journalism and public relations. Many courses are taught by professionals from the local communications industry, making FIU's program similar to prestigious ones in other urban centers of the country.

LOCATIONS: Headquartered at the North Miami Campus; courses are also taught at the Tamiami Campus and other sites throughout South Florida.

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

### De i la división i Rel'ARA

Required Courses: None

Recommended Courses: Applicants should have completed Associate degree requirements or their equivalent and should have fundamental typing skill. Lower division courses in economics, political science, sociology, business and management are suggested.

UPPER DIVISION PROGRAM:

## Requirements for Graduation

### **Core Courses**

In addition to the required and elective courses noted for each of the Communications sequences below, the student will be required to complete the 33 quarter hours of the following core:

		Quarter	Hours
MMC 4503.	Media Analysis		2
4504, 4505			
MMC 3000	Survey of		
	Communication	S	2
MMC 4602	Role of Mass M	edia in	•
	Society		5
MMC 4200	Communication	s Law	5
MMC 4302	Comparative Sy	stems	
	of Mass		
	Communication	S	5
MMC 4945	Communication	s	
	Internship		10
General con	nmunications se	quence	majors
	1		

are not required to intern.

### **Major Sequences**

In addition to core courses, the student must successfully complete all required courses in the chosen major sequence. Listed below are the required courses by sequence.

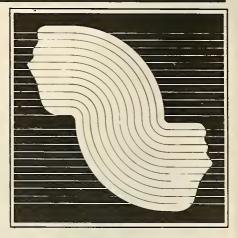
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### ADVERTISING

	Quarter	Hours
JOU 3100	News Reporting	5
*MMC 4609	Public Opinion	5
PUR 4000	Public Relations	
	Principles	5
FIN 3403	Financial Management	5
MAR 3023	Marketing Management	5
MAR 4303	Advertising Management	5
MAR 4344	Advertising Campaign	
	Management	5

#### BROADCASTING-NEWS

	Quarter	Hour.
JOU 3100	News Reporting	5
JOU 3109	Interviewing Techniques	5
JOU 4104	Reporting Public Affairs	5
F1L 4202	Television	
	Cinematography	5
RTV 3100	Writing for Electronic	
	Media	5
JOU 3600	Photojournalism	5
RTV 4101	Writing for Electronic .	
	Media II	5
RTV 4302	Broadcast News	
	Reporting	5



PUR 4000	Public Relations Principles	5
		45
BROADCAS	<b>T-TECHNICAL</b>	
	Quarter	Hours
F1L 4202	Cinematography for TV	5
PUR 4000	Public Relations	
	Principles	5
RTV 3210	Broadcast Production I	5
RTV 3220	Broadcast Production 11	5
RTV 4466	Broadcast Production III	5
RTV 4206	Advanced TV Directing	5
RTV 4500	The Broadcast Program	5
		35

### PRINT JOURNALISM

	Quarter	Hours
JOU 3100	News Reporting	5
JOU 3101	Advanced News	
	Reporting	5
JOU 3200	Editing	5
JOU 3202	Advanced Editing &	
	Graphics Use	5
JOU 3209	Electronic Editing	
	Techniques	5
JOU 3210	Video Display Terminal	
	Practicum	5
JOU 3300	Feature Writing	5
JOU 4104	Reporting Public Affairs	5
JOU 4108	Investigative Reporting	5
PUR 4000	Public Relations	
	Principles	5
		50

### PUBLIC RELATIONS

	2	
JOU 3100	News Reporting	5
JOU 3200	Editing	5
JOU 3202	Advanced Editing &	
	Graphics Use	5

(Continued)

Quarter Hours

## Communications

JOU 3300	Feature Writing	5
JOU 4307	Industrial Publications	5
*MMC 4609	Public Opinion	5
PUR 4000	Public Relations	
	Principles	5
PUR 4800	Public Relations	
	Campaigns	5
PUR 4934	Public Relations	
	Seminar	5
JOU 3600	Photojournalism	5

### GENERAL COMMUNICATIONS

•	Ų	uarter Hours
JOU 3100	News Reporting	5
MMC 4503	Media Analysis	2
MMC 4504	Media Analysis	2
MMC 4505	Media Analysis	2
*MMC 4609	Public Opinion	5
PUR 4000	<b>Public Relations</b>	
	Principles	5
JOU 3600	Photojournalism	5
RTV 3210	Broadcast Producti	on I 5

\*Under Development

### Internships

Internship programs organized with the cooperation of newspapers, radio and television stations, advertising agencies and public relations offices are an integral part of the curriculum. Each student must complete a minimum of ten quarter hours of internship related to the chosen sequence (except General Communications majors). Internships may be arranged by the student but must be approved by the Internship Director before beginning the activity. Students must be capable of productivity from the beginning of their internship periods.

### **Course Descriptions**

### **Definition of Prefixes**

F1L-Film; JOU-Journalism; MMC-Mass Media Communication; PUR-Public Relations; RTV-Radio-Television; V1C-Visual Communication.

FIL 4202 Cinematography For Television (5) A basic course in handling motion picture equipment and filming assignments for television.

JOU 3100 News Reporting

To teach the skills necessary to recognize and produce a good news or feature story. Experience with actual interviews, discussions with successful writers and journalists, and critique of student work. News judgment and identification of proper sources will be introduced. JOU 3101 Advanced News Reporting (5) Practice in reporting news events, personalities and continuing activities. Includes actual experience in writing for news media. Prerequisite: JOU 3100.

JOU 3109 Interviewing Techniques (5) The interview as a source of information and as a story. Preparing and conducting interviews, including planning of questions, note-taking and transcription, writing and editing. The symposium interview; the press conference; the personality sketch. Prerequisite: JOU 3101

### JOU 3200 Editing

50

31

Practical skills involved in putting out a newspaper; editing copy for clarity, facts and brevity; headline writing; copy reading and proofreading marks. Prerequisite: JOU 3100

(5)

(5)

#### JOU 3202 Advanced Editing and Graphics Use (5)

Study of makeup, layout and design techniques as they pertain to production of magazines, brochures, newsletters and newspapers. Provides an opportunity for individualized projects related to print communications. Prerequisite: JOU 3200 and JOU 3100, or equivalents.

JOU 3209 Electronic Editing Techniques (5) Study of principles and practical hands-on usage of the Video Display Terminal, and its integral role in print media, especially newspaper production and design. Prerequisite: JOU 3100, JOU 3200

#### JOU 3210 Video Display Terminal Practicum

Provides hands-on experience for the student to do editing exercises via computerized equipment. Prerequisite: JOU 3209 Electronic Editing Techniques.

JOU 3300 Feature Writing (5) The fact story: researched and written in depth. Planning, construction, writing and marketing non-fiction articles for general and special interest magazines and newspaper feature pages. Includes the query letter; preparing photos and illustrations to accompany the article. Prerequisite: JOU 3100

JOU 3600 Photojournalism (5) Study of principles and practice of photographic assignments related to coverage of news and feature events; and methods of selecting final photographs from contact prints.

JOU 4004 Perspectives in Mass Media (5) Evolution of democratic mass media in their social, political, economic, technical and professional aspects, with special attention given to significant trends and personalities. Prerequisite: Senior status or permission of the instructor. JOU 4104 Reporting of Public Affairs (5) To teach the student how to cover government activities for newspapers, television, and radio. Aspects of the budget office, county manager's office, and the commissioner's office, courts, and planning and zoning will be outlined. Guest speakers from government offices will appear. Prerequisite: JOU 3101, 3109

JOU 4108 Investigative Reporting (5) Locating and interpreting basic sources used in reporting and editing news. Students will work with standard reference works and public records, practice interviewing skills, learn to analyze and interpret charts, reports and statistics commonly used by news media and study survey research as used in reporting assignments. Prerequisites: JOU 3100, JOU 3101.

JOU 4302 Editorial & Column Writing (5) Introduction to persuasive writing as a practical means of influencing public opinion.

JOU 4307 Industrial Publications (5) Writing, editing and production of materials in the area of trade, business, industrial and technical press with special attention given to style for and production techniques of tabloid and magazine format publications. Prerequisite: Permission of the instructor.

#### JOU 5806 High School Publication Supervision

(5)

Designed to assist teachers of journalism at the high school and junior college level, this course emphasizes the technical aspects of producing student newspapers, yearbooks and magazines, as well as the legal and ethical considerations facing today's adviser. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction.

MMC 3000 Survey of Communications (2) An introduction to the various media of mass communications with special emphasis on newspapers, radio and television; their requirements and opportunities; and their responsibilities to the public.

MMC 4200 Mass Communications Law (5) Study of laws that regulate U.S. mass media, interpretations of these laws through recent court decisions, and the ways communicators work within the statutes of their nation and state. Prerequisite: Senior Status

### School of Technology

## Construction

### MMC 4302 Comparative Systems of Mass Communication

An examination of various national and international mass communications systems and the elements which determine the type of systems currently operating throughout the world.

(5)

(5)

### MMC 4503, 4504, 4505 Media Analysis (2,2,2)

Study of mass media of the United States and the reasons for the media's coverage of important news activities. An attempt is made to teach students to comprehend better the impact of news events and activities.

#### MMC 4602 Role of Mass Media in Society

To investigate the role played in the U.S. by the mass communications media as a cultural, social, informational, economic, political and educational force. The interrelationship of all media and their potential impact on the collective population will be studied.

MMC 4905 Independent Study (VAR) Specialized intensive study in an area of special interest to the student. Consent of faculty instructor is required.

MMC 4936 Special Topics (VAR) Intensive study for groups of students of a particular topic or limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor or divisional chairperson is required.

### MMC 4945 Communications Internship

(1-10)

On the job learning activity at selected and approved commercial media. Will include newspaper, magazine, radio, television and agency placement. Prerequisite: Consent of adviser.

### PUR 4000 Theory and Principles of Public Relations (5)

A course suitable for students of management in all areas of other disciplines, as well as the basic introduction to the theory, history, practice, and future of public relations. A comprehensive study of the field. Prerequisite: MAR 4303, or consent of instructor.

#### PUR 4800 Planning and Implementation of Public Relations Campaigns (5)

An advanced course in application of theory to actual implementation of public relations activities. Will include practice in preparation of speech ghostwriting, press kits, handling of special events, and complete production on a team basis of a multimedia public relations presentation. Prerequisite: PUR 4000, or consent of instructor. PUR 4934 Public Relations Seminar (5) Open to public relations emphasis students only. A course designed to allow the advanced public relations student to pursue a specially selected, specific area of public relations (i.e. political, medical, financial, government, corporate, educational, etc.) through in-depth study under a tutorial style of instruction and guidance. Prerequisite: PUR 4000 and PUR 4800, or consent of instructor.

**RTV 3100** Writing for Electronic Media (5) Practical assignments in the writing of news for radio and television. Will include gathering, processing and final preparation of scripts. Emphasis will be on skills development. A brief study of libel, invasion of privacy, fairness doctrine and equal time will be included. Prerequisite: JOU 3100, JOU 3109, or equivalents.

**RTV 3210 Broadcast Production I** (5) Fundamentals of broadcast announcing, presentation and interviewing; audio control room procedures, audio recording and editing, use of music and sound effects.

**RTV 3220 Broadcast Production II** (5) Basic television production and direction, audio and video controls, studio cameras, slide and film projection, staging, lighting, graphics and composition. Prerequisite: Broadcast Production I.

### RTV 4101 Writing for the Electronic Media

Continuation of RTV 3100, emphasis placed on news gathering and full program script preparation. Prerequisite: RTV 3100, Writing for the Electronic Media.

### RTV 4205 Communications Technology Practicum

(5)

(5)

(5)

Practice in communications technology activities learned during attendance in Communications Technology VIC 4300. Implementation of television studio production activities.

### RTV 4206 Advanced Television Directing

A study of the work of the television director. Emphasis on the various aesthetic and psychological factors of television production and their creative application in program production and execution. Prerequisites: Broadcast Production I, II and III or permission of instructor.

RTV 4302 Broadcast News Reporting (5) Reporting, writing, and presenting radio and television news programs; analysis of news and public affairs broadcasting; social responsibility for broadcasters. Prerequisite: RTV 4101. Advanced writing for the Electronic Media.



RTV 4466 Broadcast Production III (5) Applications of the elements of television production. direction and presentation. Prerequisites: Broadcast Production 1 and II.

RTV 4500 The Broadcast Program (5) This course offers the student an understanding of the complex planning and decision-making involved in producing a broadcast package and in developing and maintaining a broadcast program schedule. Prerequisite: Broadcast Production 1 and Senior Status.

VIC 4300 Communications Technology (5) This course will provide the study of modern communication equipment usage and impact, with special emphasis upon electronic and visual transmission, reception and projection capabilities and methods. Future development and instrumentation in technical communication systems will also be stressed.

### **Construction Department**

Jack Clark, Professor and Chairperson Iraj Majub, Professor Oktay Ural, Professor Bhaskar Chaudhari, Associate Professor Hedvika Meszaros, Assistant Professor Julio Otazn, Assistant Professor Gerard Pierce, Associate Professor William Bassett, Visiting Associate Professor Jaime Canaves, Assistant Professor

The Construction Department of the School is dedicated to a multi-disciplinary approach to the construction industry. By selecting from the fields of engineering, architecture, management, and interior design, its programs develop a system of skills applicable to the complex and interrelated problems of development, construction, and structures. As one of the major factors in our economy, the construction industry also plays a direct role in our quality of life and occupies a position of major concern in the curriculum of the University.

The Construction Department has four specific majors: Architectural Technology, Construction Engineering Technology. Construction Management, and Interior Design.

## Construction

UPPER DIVISION PROGRAM:

Articulation agreements have been made with Broward Community College and Miami Dade Community College (members of the Southeast Florida Educational Consortium) to facilitate the transfer of graduates of appropriate lower division programs to programs at FIU.

### **Architectural Technology**

This program gives the student a multidisciplinary knowledge of the major areas related to the practice of Architecture. Emphasis is on the technical as well as the managerial aspects of the architectural project. These aspects include cost estimating and economic planning; the systematic approaches to building design, design development, preparation of working drawings and specifications; areas of field management and office administration; strength of materials; and theory and design of structures. Furthermore, the student is given the option of concentrating on one or more of the above areas by selecting related electives in consultation with his/her advisor. Articulation agreements have been made with the Department of Building Construction at U.F. and the School of Architecture at FAMU for transfer of graduates of this FIU program to master level studies at these institutions.

LOCATION: Tamiami Campus Only.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

completion of an associate's degree program in architectural technology or pre-architecture; or academic credit or proven competency in the following areas: algebra and trigonometry (or technical mathematics), construction materials, architectural drawings, technical writing, building codes-plus completion of general education requirements.

UPPER DIVISION PROGRAM:

	Quarte	r Hours
Major Requireme	nts*	85
BCN 3611	Construction Cost	
	Estimating	5
BCN 3762	Codes &	
	Specifications	5
ARC 3586	Building Systems	5
BCN 3703	Management of	
	Construction	
	Projects	5
BCN 3740	Legal Aspects and	
	Construction Labor	
	Law	5
BCN 3402C	Mechanics of	
	Materials	5

ARC 3450	Architectural Innov.	
	for Construction	5
ARC 3484C	Advanced	
	Architectural	
	Drawing and	
	Design 1	5
BCN 3761	Specification	
	Writing	5
ARC 3786	Survey of Arch.	
	History	5
ARC 4039C	Architectural	
	Design	5
BCN 4260	Quality Control in	
	Construction	5
ARC 4590C	Structural Design	5
ARC 4485C	Advanced	
	Architectural	
	Drawing and	
	Design II	5
ARC 4270C	Professional Office	
	Practice	5
BCN 4561C	Environmental	
	Control in Buildings	5
ARC 4335C	Site Development	5
*or demonstrat	ed competency	
	with an advisor to	
meet degree requi		
program objective		
program objective	s (munnun)	

requirement):

(Minimum) 90

5

### Construction Engineering Technology

This program offers a specialized treatment of the construction process. Emphasis is placed on technical courses in fundamentals of construction, management of personnel and equipment, inspections, mechanical and structural design, construction economy, construction materials, and construction methods.

LOCATION: Tamiami Campus Only

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: mathematics through calculus, physics, surveying, construction materials, drawing or drafting, statics.

*Remark:* A student without this preparation may obtain it while completing the upper division program by taking additional electives.

	Quarter	
Major Requireme		78
ETC 3322C	Advanced Surveying	5
BCN 3240	Construction	
	Methods and	
	Equipment	3
BCN 3611	Construction Cost	
	Estimating	5
BCN 3720	Construction Costs	
	and Scheduling	5
BCN 3762	Codes and	
	Specifications	5
ARC 3586	Building Systems	5
BCN 3703	Management of	
	Construction	
	Projects	5
ETG 3530	Strength of	
	Materials	3
ETG 3520L	Materials Testing	2
ETC 3412	Determinate	
	Structural Analysis	3
ETC 3220C	Soil Mechanics and	
	Foundations	5
ETC 3210L	Soil Mechanics	
	Laboratory	2
ARC 4335C	Site Development	5
ARC 4590C	Structural Design	5
ET1 4671	Engineering	
	Economy	5
COP 3112	Introduction to	
	Computers	5
BCN 4561C	Environmental	
2011 10010	Control in Buildings	5
BCN 4906	Advanced Cost	-
2011 4700	Estimating (sp.	
	topics)	5
*or domenstra	topics)	5

\*or demonstrated competency *Electives:* Selected with an advisor to meet degree requirements and program objectives (minimum

required):

12

(Minimum) 90

### **Construction Management**

This program is designed to develop individuals for management, supervisory or technical positions in the construction industry and related business, and for those who would engage in their own construction-related business activities. Emphasis is on technical and management essentials, such as cost estimating, project field management and operations, methods and equipment, codes and specifications, contract administration, job planning, scheduling, inspections, site development, construction materials, construction economics, cost control, labor relations, and safety.

## **Construction** ~

### LOCATION: Tamiami Campus Only

### DEGREE: Bachelor of Science

### LOWER DIVISION PREPARATION:

academic credit or proven competency in the following areas: algebra and trigonometry, surveying, construction materials, drawing or drafting.

*Remark:* A student without this preparation may obtain it while completing the upper division program by taking additional electives.

Quarter Hours

Major Requirements*			83
BCN 3240C	Construction		
	Methods and		
	Equipment	3	
BCN 3611	Construction Cost		
	Estimating	5	
BCN 3720	Construction Costs		
	and Scheduling	5	
BCN 3762	Codes and		
	Specifications	5	
BCN 3703	Management of		
	Construction		
	Projects	5	
BCN 3640	Economic Planning		
	for Construction	5	
BCN 3740	Legal Aspects and		
	Construction Labor		
	Law	5	
BCN 3402C	Mechanics of		
	Materials	5	
ARC 4270C	Professional Office		
	Practice	5	
ARC 4335C	Site Development	5	
BCN 4260	Quality Control in		
	Construction	5	
BCN 4561C	Environmental		
	Control in Buildings	5	
ARC 4590C	Structural Design	5	
ETI 4671	Engineering		
	Economy	5	
BCN 3730	Construction Safety	5	
BCN 4906	Advanced Cost		
	Estimating (sp.		
	topics)	5	
BUL 4111	Business Law I	5	
*or demonstrated competency			
Electives: selected with an advisor to			
meet degree requirements and			
program objectives (minimum			
required):			7

(Minimum) 90

### **Interior Design**

This is an interdisciplinary program integrating areas pertinent to the field of interior environments. It includes considerations in business procedures: commercial residential and institutional design associated with this profession: and development in the ability to integrate design including basic design elements, space relationships, materials, and interior requirements.

LOCATION: Tamiami Campus Only.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION: Completion of an Associate's Degree in Interior Design or related area.

#### UPPER DIVISION PROGRAM:

Major Requirements: With the approval of the advisor, students must complete a minimum of 90 credits selected from the following list: Ouarter Hours

	Quarter	Hours
Major Requirement	nts*	80
ARC 4270	Professional Office	
	Practice	5
IND 4224	Exhibit and Display	
	Design	5
ARC 4039C	Architectural	
	Design	5
IND 4221	Institutional	
	Interiors	5
IND 4316	Media & Methods	
	of Presentation	5
BCN 4561C	Environmental	
	Control in Building	5
IND 3210	Advanced Interior	
	Design I	5
IND 4220	Advanced Interior	
	Design II	5
ARC 3786	Survey of	
	Architectural	
	History	5
1ND 3020	Survey of	
	Architectural Int.	
	Design	5
MAR 4503	Consumer Behavior	5
MAR 3023	Marketing	
	Management	
	or Eq.	5
BCN 3611	Construction Cost	
	Estimating	5
BCN 3740	Legal Aspects &	
	Constr. Labor Law	5
1ND 4905	Independent Study	
	(Thesis)	5
BCN 3761	Specifications	
	Writing	5
	-	

\*demonstrated competency Electives: selected with an advisor to meet degree requirements and program objectives (minimum required):

(Minimum) 90

10

(5)

(5)

### **Course Descriptions**

#### **Definition of Prefixes**

ARC-Architecture; BCN-Building Construction; ETD-Engineering Tech.: Drafting; IND -Interior Design; HHD-Housing & Home Design; LAA-Landscape Architecture.

ARC 3127C Graphic Communication (5) To develop the understanding and graphic skills necessary to the conception and communication of design and engineering technology. The course is flexible in order to accommodate different student backgrounds. Basic graphic methods and media including orthographic and isometric projection; one and two-point perspective; composition, lettering and presentation techniques.

### ARC 3210C Architectural Concepts of Construction

Introduction to principles of design and perception. Study of user's need relationship with environmental and human factors. Examination of architectural design ideas and their development. Prerequisite: ARC 3466, or, equivalent.

### ARC 3450 Architectural Innovations for Construction

Specialized study in an area of interest to the student, where architectural design is used with new methods of construction due to advancing technological developments. Drawings and field surveys. Prerequisite: Consent of instructor.

#### ARC 3466 Materials and Methods of Construction

Construction (5) A study of the types of construction and materials used in buildings. How materials are properly installed and inspected, including the use

of special equipment, in accordance to specifications, codes, standards, and agencies recommendations.

(3)

## Construction

### ARC 3484C Advanced Architectural Drawing and Design 1 (5)

Methodology of planning and design of architectural projects, with special emphasis on working drawings and detail drawings. Prerequisite: ARC 3127C or equivalent.

ARC 3586 Building Systems (5) Introduction to the problems related to the production of mass housing and applications of "industrialization" to the process of building. Systematic analysis and evaluation techniques of modular construction. Prerequisite: ARC 3466, or equivalent.

### ARC 3786 Survey of Architectural History

Comprehensive study of architectural forms, styles and construction techniques throughout history, Prerequisite: ARC 3466, or equivalent.

(5)

site: ARC 3484C.

tion materials.

ARC 4039C Architectural Design (5) Integrated study of basic design concepts and principles of design. Development of architectural design products, presentation drawings, plans and quantity surveys. Prerequisite: ARC 3127C, or equivalent.

ARC 4270C Professional Office Practice (5) Assignments in office administration, negotiation of contracts, fee structure, client and public relations. Business organization, procedure scheduling and task allocation within an architectural office. Prerequisite: BCN 3740, or equivalent.

ARC 4335C Site Development (5) Fundamentals of site planning: physical, economic, social and governmental constraints affecting development zoning; land use controls; subdivision layout; modular design; site characteristics (soil, geology, topography); drainage; access. Design and construction techniques. Prerequisite: Consent of instructor.

ARC 4336 Basic Utilities and Housing (3) The study of the importance of basic utilities (such as roads, sewer and water supply systems) in housing planning and construction. A relative cost analysis. Health problems and sociological effects of lack of basic utilities. Innovative concepts to incorporate basic utilities to all housing projects in developing countries. Prerequisite: Consent of instructor.

#### ARC 4354C Construction and Design of Natural Recreation Areas

Natural Recreation Areas (5) The course includes design factors, construction requirements, and techniques in developing outdoor recreation facilities. Soil, structure, drainage, irrigation, grass choices, and landscaping materials are covered. Construction of unique natural recreation areas is stressed and related to maintenance costs in the establishment of good facility management. Prerequisite: None.

ARC 4485C Advanced Architectural Drawing and Design II (5) New techniques in the preparation of working drawings, detail drawings; inclusion of change orders. Preparation of finish schedules, with correlation to specifications writing. Prerequi-

ARC 4590C Structural Design (5) Elements of structural design in steel, reinforced concrete, and timber, with design specifications per AISC, ACI and NDS. Introduction to prestressed concrete design. Loadings and structural elements commonly encountered in construction will be used for analysis and design. Prerequisite: BCN 3402C, or equivalent.

### ARC 5916 Innovations in Building Technology (3) Experimental approach to new materials and methods applicable to the field of construction.

Prerequisite: consent of instructor. BCN 3210C Construction Materials (5) Lecture/Lab-A study of the origins, production and uses of construction materials, such as concrete, steel, aluminum, wood, plastics, brick and stone. Includes testing lab, which consists of testing and evaluating properties of construc-

### BCN 3240 Construction Methods and Equipment

Methods, procedures, and equipment used in residential, commercial and heavy construction. Equipping the construction plant. Production value analysis. Work effectiveness studies. Prerequisite: Algebra.

(3)

(4)

### BCN 3254C Building Construction Drawing I

An introductory course in basic drafting and reading drawings. Use of instruments, orthographic projection, lettering, sectional and auxiliary projections and applied engineering geometry are studied. Various technical symbols are studied to facilitate reading of structural, architectural and mechanical drawings. Prerequisite: consent of instructor.

### BCN 3257C Exterior Design

Exploration and analysis of the relationship of exterior and interior environment. Emphasis on three dimensional design projects, using basic model making and presentations.

BCN 3280C Construction Surveying (5) Principles and practices of surveying as it applies to building construction. Prerequisite: Trigonometry or equivalent.

BCN 3402C Mechanics of Materials (5) 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. Prerequisite: Trigonometry or Technical Math.

BCN 3611 Construction Cost Estimating (5) 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. Prerequisite: ARC 3466 or equivalent. Consent of instructor.

### BCN 3640 Economic Planning for Construction

Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures. Prerequisite: BCN 3703, or equivalent.

#### BCN 3703 Management of Construction Projects

Projects (5) Organization and management theory elements of leadership and human supervision, organization, office operations, labor relations, safety, and work improvement, as they relate to project field operations. Prerequisite: BCN 3720 and BCN 3762, or equivalent.

#### BCN 3706 Interdisciplinary Aspects of Housing

(3)

(5)

Recognition and definition of all factors which affect the planning, financing, and construction of housing projects. The operations and responsibilities of a multidisciplinary team dealing with the decision process. Prerequisite: consent of instructor.

## Construction

#### BCN 3720 Construction Costs and Scheduling

The application of the Critical Path Method and Program Evaluation Review Technique to construction planning, scheduled vs actual job expenditures. Cost forecasting. Development of unit prices from field data. Laboratory is included, which consists of computer applications. Prerequisite: BCN 3611, or equivalent.

(5)

### BCN 3740 Legal Aspects & Construction Labor Law (5)

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. Prerequisite: BCN 3762.

BCN 3761 Specifications Writing (5) Study of methodology for acquisition of information and transmission of technical and legal requirements for construction projects. Preparation of outline specifications, building description and purchasing specifications. Problems of format, reviewing and updating. Prerequisite: BCN 3740 or consent of instructor.

BCN 3762 Codes and Specifications (5) A study of codes required by local, county, and state levels. The writing and reading of specifications: bidding procedures; the relationships between contractors, engineers-architects, owners, subcontractors, and material suppliers. Prerequisite: ARC 3466, or equivalent.

BCN 4221 Road Construction (5) A study of highway planning pre-construction investigations such as surveys, soil test data and drainings, types of construction equipment and materials. Familiarization with standard methods required for various governmental agencies. Prerequisite: BCN 3210C.

### BCN 4260 Quality Control in Construction

BCN 3762, or equivalent.

Construction (5) Quality control as governed by the job inspector, contractor superintendent, architect-engineer, building official, and governmental agencies and requirements. Prerequisite:

BCN 4452 Structural Systems (5) A general study of the methods of structural systems, such as beams, columns, rigid frames, arches, trusses, floors, enclosure systems, and various foundation configurations. The limitations of using various structural materials for the systems will be discussed. Prerequisite: BCN 3402C, or equivalent.

### BCN 4473 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. Prerequisite: BCN 3706, or equivalent.

### BCN 4561C Environmental Control in Buildings

A study of concepts and systems for providing optimum thermal, lighting, plumbing, and acoustical conditions, in both commercial and residential buildings. Designed for majors in architecture, interior design, and construction management. Prerequisite: ARC 3466, or equivalent.

BCN 4707 Housing and Environment (3) The impact of housing and construction on a community and environment. The necessity of total planning to protect the environment. Public participation in housing planning. Economics vs. ecology. Prerequisite: none.

### BCN 4905 Directed Independent Studies

(1-5)

(5)

Specialized intensive study in an area of special interest to the student. Prerequisite: consent of instructor.

BCN 4906 Special Topics (1-5) For a group of students who wish an intensive study of a topic not otherwise offered in the University. Prerequisite: consent of instructor.

#### BCN 5022 Housing for Developing Countries

Countries (3) Problems faced by developing countries in housing their population. Political, economic, social and technical considerations in decision process. Prerequisite: ARC 3586 or BCN 3706.

ETD 3020 Graphic Communication (5) Principles of bi-dimensional design, drafting techniques. Perspective and isometric drawing and introduction to architectural drawings. Prerequisite: consent of instructor.

### HHD 3151 Housing: Shelter and the

Consumer (5) Development of shelter and its effect on the family, community, towns, cities, etc. House planning and financing from the economic, social, scientific and aesthetic point of view. Prerequisite: none.

### IND 3020 Survey of Architectural Interior Design (5)

Application of the elements, principles and introduction to the basic facets of architectural interiors and its relationship to interior environment in general. IND 3210 Advanced Interior Design I (5) Consideration and application of design criteria including floor, wall and ceiling materials and treatments, furniture selection and arrangement, illumination, ventilation and selected architectural details for residential spaces. Prerequisite: Junior standing.

### IND 3500 Interior Design (5)

Integrated study of materials and business practices used in interior design. Emphasis on blueprint reading, technical terms, business procedures, estimates and quotations. Prerequisite: none.

IND 4220 Advanced Interior Design II (5) Analysis, synthesis, articulation and design execution of commercial spaces, integrating human factors, environmental-technological systems, activity structure and symbiotic relationships as space design determinates. Consideration of significant aspects of culture design components, and merchandising procedures. Prerequisite: IND 3210.

### IND 4316 Media & Methods of Presentations

Applications of media and materials used in presentation of design concepts and programs to clients, groups and organizations. Emphasis on various equipment and graphic techniques available, their application and use in simple and detailed communications. Prerequisite: none.

#### IND 4221 Institution and Industrial Interiors

Analysis and synthesis of institutional functions, administrative controls, resources, constraints and policies in planning economic, behavioral and environmental parameters. Selections and design of selected furnishings and components. Prerequisite: IND 3500.

IND 4224 Exhibit and Display Design (5) Articulation and analysis of exhibit and display planning and design, integrating purpose, perceptual and effectiveness into the design process: emphasis on the coordination of materials, graphic design, color and illumination. Prerequisite: none.

IND 4905 Independent Study (Thesis) (3-5)Simulated conditions of an interior design commission assuming all responsibilities of a professional interior designer, providing all required services including: cost estimate, contract, conceptual design drawings, selection of furniture and accessories, lighting systems, and treatment of walls, floors and ceilings. Prerequisite: Completion of Interior Design curriculum.

(5)

(5)

## **Dietetics and Nutrition**

(5)

### LAA 3370C Landscape Design I

Application of Basic Design principles to the design of landscape and garden. A general survey of design elements, restraints, plant materials and other garden materials will aid the student to develop projects in a laboratory environment. Prerequisite: ARC 3127C

LAA 3787 History of Landscape (5) A survey of landscape history throughout the ages. From the gardens of Mesopotamia, Roman and Islamic periods, the Monastery and Castle gardens of middle ages and the Renaissance, to the influence of Oriental gardens and the modern era. Prerequisite: Consent of instructor.

### **Dietetics and Nutrition**

Penelope Easton, Professor and Chairman

Susan Himburg, Assistant Professor and Director, CUPID Katharine Curry, Associate Professor Rasheed Khan, Assistant Professor Susan Myers, Assistant Professor

The Department offers a major leading to a baccalaureate degree with a concentration in general dietetics, and courses in nutrition for allied disciplines or for the student who desires a working knowledge of nutrition. The Department also offers a Master of Science degree program in dietetics with areas of concentration in therapeutic and community dietetics or dietetic management. The undergraduate programs are designed to assist the student to gain basic practitioner understanding and skills, and to achieve his or her career objectives. The graduate program prepares the student to assume leadership responsibilities in health care institutions, community health agencies, or private practice. The graduate program allows for concentration in research or field application.

### **Undergraduate Programs**

The coordinated undergraduate program meets the requirements of the American Dietetic Association, both for academic preparation for membership and for clinical experience.

The Florida International student must make formal application to the Department for the clinical portion of the program by April 15 of the spring quarter before fall admissions. Clinical courses are sequential and require two years to complete. Clinical experiences are available in several hospitals and other health agencies. A graduate of the clinical portion of the program is eligible to take the examination to become a registered dietitian.

A graduate of the above program is awarded a Bachelor of Science degree. With special planning and advisement, a program of study leading to the Bachelor of Science degree in dietetics and nutrition without clinical experience may be arranged.

### **General Dietetics**

LOCATION: Tamiami Campus only.

DEGREE: Bachelor of Science in Dietetics and Nutrition

### LOWER DIVISION PREPARATION:

The student desiring to major in general dietetics should have completed the following: (1) general education requirements (if not included in the lower division general education coursework, at least one course each in psychology, sociology, economics, two courses in English composition or technical writing); (2) two courses in inorganic chemistry with labs; (3) one course in organic chemistry with lab; (4) one course in business management; (5) one course in basic foods; (6) one course in basic nutrition; (7) Microbiology; and (8) one course in quantity food preparation.

UPPER DIVISION PROGRAM:

Major Required Courses:

Quarter Hours

NOTE: Courses designated below with an asterisk(\*) comprise the clinical component, and *must* be taken in the order listed. Clinical experiences are supervised by the course instructors. Clinical stations are located in appropriate hospitals, health agencies and school food service programs. Courses marked with an asterisk (\*) are open only to students in the coordinated clinical program. Applied courses and practicum must be taken concurrently with the related didactic courses.

DIE 300	5 Orientation to		
	Dietetics*-		3
	-(Organic Chemistry		
	must be completed		
	before DIE 3005 is		
	taken)		
HUN 4410	Nutrition: Infancy		
	Through Adolescence	5	
FSS 3215	Meal Management	5	
DIE 3317	Dietetics in		
	Community Health*	8	
DIE 3245	Diet Therapy 1	4	
DIE 3275	Applied Diet Therapy*	6	

July 1	U. 1	N	
3.3			

DIE 3125	Management of	
	Dietary Systems	4
DIE 3175	Management of	
	Dietary Systems	
	Practicum*	7
D1E 4246	Diet Therapy II	5
DIE 4435	Dietetic Instruction	
	and Counseling	4
DIE 4436	Dietetic Instruction	
	and Counseling Lab	1
DIE 4365	Dietetic Management	
	of Nutrition Programs	
	(Advanced)	4
DIE 4377	(Applied) Dietetic	
	Management of	
•	Nutrition Programs	
	(Practicum)*	8
HUN 4241	Nutrition 11	4
FOS 4041	Food Science	5
DIE 4536	Advanced Clinical	
	Practicum in	
	Dietetics*	12
DIE 4506	Seminar in Dietetics	
	and Nutrition*	3

Other Requirements: One course in biochemistry; one course in human physiology; plus any lower division requirements not completed. Recommended Electives: Selected courses in the following areas; education, statistics, social work, health science, adult education, business, anthropology, sociology.

### (3-5)

### **Graduate Program**

The Department of dietetics and nutrition offers a graduate program leading to the Master of Science degree in Dietetics, with a subspecialty in either Therapeutic and Community Dietetics or Dietetic Management. Dietitians enrolled in this Program may prepare themselves for positions of responsibility in health care institutions, community health agencies, or private practice. The Program will allow for concentration in research or field application.

The Program is designed to meet the needs of the professional practitioner of dietetics. It is keyed to the study of the rapidly growing urban society of South Florida with its multi-cultural groups.

### **TECH** 12

### School of Technology

## **Dietetics** Nutrition

Admission to the Program will be determined by an evaluation of the bachelor's program. Undergraduate preparation will include a Bachelor of Science in Dietetics or Food and Nutrition and/or the minimum requirements, leading to membership in The American Dietetic Association. Minimum requirements, under current Board of Regents policy, will be met. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude Tests of the Graduate Record Examination or at least a "B" (3.0 on a 4 point scale) average in all upper level division work. Application procedure for admission to the program will be found in the discussion of University procedure for admission to graduate study in the current FIU catalog. A personal interview or suitable letters of reference will be required for admission.

Students who apply for admission without a Bachelor of Science degree in Dietetics will meet ADA Plan IV requirements. All students must contact the Department simultaneously with graduate admission application to the University.

Students who are candidates for the Master of Science degree in Dietetics must complete a minimum of 45 quarter hours of graduate study and 33 hours of this work must be completed at Florida International University. All of the work must be of recent enough date to be relevant to the field of dietetics today.

The student's program will be planned to be consistent with his/her career goals and in consultation with his/her assigned faculty advisor. The proposed program of study will be filed in the office of the Chairman of the Department of Dietetics and Nutrition by the end of the student's first quarter of full-time study.

Retention in the Master of Science in Dietetics Program required maintenance of a "B" grade point average.

*Prerequisites* for students with a bacbelor's degree other than in Dietetics:

The prerequisites below should be completed before admission to the Department of Dietetics and Nutrition Graduate Program. Under special circumstances, a student may be given special permission by the Department Chairman to take a limited number of these courses simultaneously with the Graduate Program.

Therapeutic and Community Dietetics

Subspecialty Course Name Basic Nutrition (1) Advanced Nutrition (1) Basic Foods (1) Meal Management or Foods (1) Food Science (1) Quantity Food Preparation (1) Diet Therapy (1)

General Chemistry with Laboratory (1) Organic Chemistry with Laboratory (1) Biochemistry, junior level or above (1) Physiology (1) Microbiology or Bacteriology (1) Management and Education courses Dietetic Management Subspecialty Candidates must have completed the following if they do not meet the requirements above: Advanced/Quantity Food Production Accounting Equipment and Layout Management courses accepted in lieu of Biochemistry Courses in General Education required for all students, including: Anthropology, Economics, Psychology and/ or Sociology, English, Mathematics and Statistics.

### Therapeutic and Community Dietetics

LOCATION: Tamiami and North Miami Campuses.

DEGREE: Master of Science in Dietetics

A candidate for the master's degree in Therapeutic and Community Dietetics must complete the following courses:

	(	Quarter Hours
DIE 5247	Diet in Disease	
	Prevention and	
	Treatment	4
DIE 6937	Graduate Seminar i	in
	Dietetics	1
DIE 6568	Research Methods :	in
	Dietetics	5
HUN 6811	Laboratory Research	:h
	Methods in Dietetic	28
or		
DIE 6578	Field Research	
	Methods in Dietetic	
DIE 6908	Supervised Field St	udy
	in Dietetics	
or		_
	Thesis in Dietetics	5
HUN 5245	Nutrition and	
	Biochemistry	
05		
HUN 6247	Nutritional	
THEFT CARD	Pathophysiology	4
HUN 6408	Nutrition During th	1e
	Life Cycle	
or FOS 6044	Advanced Food	
1 03 0044	Science	
or	Science	•
07		

HUN 6521 Advanced Community	
Nutrition	4
Other DIN Program Courses	8-10
Courses outside the DIN Program	12-14
	45

### **Dietetic Management**

LOCATION: Tamiami and North Miami Campuses.

DEGREE: Master of Science in Dietetics Ouarter Hours

		Quarter mours
DIE 6937	Graduate Seminar	
	in Dietetics	1
D1E 6568	Research Methods	
	in Dietetics	5
HUN	Laboratory	
6811	Research Methods	
	in Dietetics	
or		
D1E 6578	Field Research	
	Methods in	
	Dietetics	3
DIE 6908	Supervised Field	
	Study in Dietetics	
or		
DIE 6971	Thesis in Dietetics	5
FOS 6044	Advanced Food	
	Science	4
DIE 6128	Advanced	
	Management of	
	Dietary Systems	4
Other DIN C	ourses	12-14
Courses outsi	de the DIN Program	n 12–14
		45

### **Course Descriptions**

### **Definition of Prefixes**

DIE-Dietetics; FOS-Food Science; FSS-Food Service Systems; HUN-Human Nutrition.

### Undergraduate

(

C

DIE 3005 Orientation to Dietetics (3) Survey of role and responsibilities of dietitian. Legal and ethical considerations necessary for the student dietitian in clinical experiences. Educational and personal qualifications for specialization in dietetics. Prerequisite: Organic Chemistry or permission of Chairperson.

### DIE 3125 Management of Dietary Systems (4)

Survey of various types of institutional food service systems. Will cover management concepts in planning, implementing and evaluating food service systems. Prerequisite: Basic Management, Quantity Food Preparation.

(4)

(8)

(5)

(5)

## **Dietetics and Nutrition**

### DIE 3175 Mananement of Dietary Systems Practicum (7)

Provides for developing the skills as listed for DIE 3125. Clinical assignments will be made in several food service institutions in this area. Prerequisite: DIE 3275. Corequisite: DIE 3125. Clinical component: open only to a student in the Coordinated Undergraduate Program.

#### DIE 3245 Diet Therapy I

Techniques of adjusting nutrients and food intake to accomodate medical treatments and previous nutriture. Menu writing and analysis, translation of dietary prescriptions, techniques of dietary instruction, dietary histories. Prerequisites: HUN 3122 or equivalent, HUN 4410, Physiology, Biochemistry, and permission of chairperson. Majors only.

DIE 3275 Applied Diet Therapy (6) Observation and participation in dietary treatment activities. In clinical institutions, application of menu writing, translation of dietary prescription, techniques of dietary instruction and diet history. Clinical component: open only to a student in the Coordinated Undergraduate Program.

### DIE 3317 Dietetics in Community Health

Study of community agencies available for nutrition guidance for differing age groups. Observation and participation in activities of community agencies. Prerequisites: Physiology, HUN 3122, DIE 3005, HUN 4410. Clinical component: open only to a student in the Coordinated Undergraduate Program.

#### DIE 4195 Special Problems in Dietetic Administration (1-3)

In-depth study of a problem in dietetic administration chosen to coincide with a student's interest and career goals. Student will develop objectives stated in behavioral terms and demonstrate skills in information gathering, analysis and technical writing.

### DIE 4246 Diet Therapy II (5) In-depth study of the complex dietetic problems accompanying metabolic disorders with considerations of medical and individual needs. Prerequisites: Biochemistry, Physiology, DIE 3245 or equivalent. Majors only.

### DIE 4296 Special Problems in General

Dietetics (1-5)In-depth study of a problem in general dietetics chosen to coincide with student's interest and career goals. Student will develop objectives stated in behavioral terms and demonstrate skills in information gathering, analysis and technical writing.

### DIE 4365 Dietetic Management of Nutrition Programs (4)

Advanced concepts of managerial functions of a dietitian working as an institutional consultant, a member of a community nutrition program, a private therapeutic consultant (or) (as well as) full time institutional food service administrator will be covered. Advanced standing required. Prerequisite: DIE 3125 or permission of the instructor, basic competency in management principles.

### DIE 4377 Dietetic Management of Nutrition Programs Practicum (8)

Assignments will be made in various community agencies and institutions for development of beginning progressional level competencies in management of nutrition and food service programs. Prerequisite: DIE 3175. Clinical component: open only to a student in the Coordinated Undergraduate Program.

#### DIE 4435 Dietetic Instruction and Counseling

Counseling (4) Motivational methods and instructional techniques will be practiced in simulation activities for development of entry level competencies. Recorders and VTR's will be used for feedback and evaluation. Advanced standing in dietetics required.

### DIE 4436 Dietetic Instruction and

Counseling Laboratory (1) Will provide small group video tape recording practice in dietetic instruction and counseling. To be taken with DIE 4435. Prerequisite: Advanced standing in dietetics.

### DIE 4506 Seminar in Dietetics and

Nutrition (3) Study of current dietetic and nutrition problems, and research findings. Open to students with senior standing only.

#### DIE 4536 Advanced Clinical Practicum in Dietetics (12)

In-depth study combining theoretical concepts and clinical experience. Learning experience will be planned cooperatively by the student, campus instructor and clinical instructor to meet individual needs and goals of the student. Prerequisite: DIE 4365 and DIE 4377 and permission of Director of the Coordinated Undergraduate Program. Clinical component: open only to a student in the Coordinated Undergraduate Program.

FOS 3004 Food and the Consumer (4) Study of concerns of purchasing, storage and preparation of food. Consideration of current life style which influences food choices. Designed to give the student skills in purchasing and preparing foods to meet personal, social and physical needs. Demonstration laboratory included. (Recommended for non-majors.)

FOS 3021 Fundamentals of Food (5) Study of selection, processing and preparation of food with attention to quality and nutrient retention. Includes equipment choices for food preparation in small quantities. Laboratory included. (Recommended for non-majors.)

#### FOS 4041 Food Science

Physical and chemical changes in food occurring as a result of various methods of processing, preparation, and storage of foods. Prerequisite: Organic Chemistry, HUN 3122, FOS 3021 and FSS 3215, or equivalents.

### FSS 3215 Meal Management and Service

Development of skills in basic techniques of purchasing, preparation and service of food for individuals and small groups. Includes laboratory and experiences in demonstration techniques. Prerequisite or corequisite: HUN 3122 and FOS 3021 or equivalent or permission of instructor, preparation in basic foods.

FSS 3316 Food Science for Institutions (4) Course will emphasize proper food handling in institutional settings with use of sound management principles closely coordinated with food science advances and government regulations. Laboratory and field trips will be used to strengthen theoretical concepts. No prerequisites.

HUN 3122 Nutrition and Culture (5) Nutrients and their interrelationships in reference to food habits and the needs of various population groups. Introduction to the impact of culture on nutriture and the study of personal food pattern development. (Recommended for non-majors.)

### HUN 3240 Metabolic Aspects of Nutritional Status (5)

Course will emphasize the nutritional components of food and metabolic aspects of nutrients. The interaction of nutrients and their complete degradation and utilization to meet the metabolic demands of the body. Prerequisite: 12 quarter hours chemistry and HUN 3122, or equivalent.

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### School of Technology

## **Engineering Technology**

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### HUN 4241 Nutrition II

Roles of nutrients in metabolic processes. Effects of excesses and deficiencies. Prerequisite: Organic Chemistry, Physiology and HUN 3122 or equivalent.

HUN 4410 Nutrition: Infancy Through Adolescence

Study of nutrient needs of women of childbearing years and infants and children. Group feeding programs, government agencies, for children and adolescents. Nutrition education materials and strategies in various economic and cultural groups. Prerequisite: HUN 3122. *Graduate* 

### DIE 5247 Diet in Disease Prevention and Treatment (4)(S)

Critical study - historical, current, and experimental. Prerequisite: DIE 3245 or equivalent.

### DIE 5926 Workshop in Dietetics and Nutrition (1-5)(SS)

Short term intensive development of selective subject matter in dietetics, nutrition or nutrition education techniques and methods. Prerequisites vary according to subject.

### DIE 6128 Advanced Management of Dietary Systems (4)(F)

Emphasis on management and organizational theory. Innovative projects for the development of management competencies are developed to meet needs of individual students. Prerequisite: DIE 3125 or equivalent.

## DIE 6568 Research Methods in Dietetics (5)(F)

Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization and interpretation. Prerequisite: Admission to Master of Science in Dietetics Program and permission of instructor.

### DIE 6578 Field Research Methods in

Dietetics (3)(W) Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches. Prerequisites: DIE 6568 and consent of department chairman.

### DIE 6907 Individual Study in Dietetics (2-5)(ALL)

Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Consent of the Chairperson of the department.

### DIE 6908 Supervised Field Study in Dietetics (5)(ALL)

Pre-planned practical experience at the professional level in an area of dietetics. Critical written evaluation by the student, developed with frequent consultation and supervision of instructor. Prerequisite: DIE 6578, 30 hours of graduate study and permission of instructor.

### DIE 6937 Graduate Seminar in Dietetics (1)(F,W)

An exploration of current issues in the field of dietetics and nutrition. Topics are chosen by the class and instructor(s). Each student has an opportunity to lead the discussion. One hour required of all graduate students. Student may repeat up to 3 hours.

DIE 6971 Thesis in Dietetics (5)(ALL) Prerequisite: DIE 6578 or HUN 6811, 30 hours of graduate study and permission of thesis committee.

### FOS 6044 Advanced Food Science (4) In-depth study of chemical and physical properties of interactive components of selected foods. Emphasis on effects of additives and methods of preparation and preservation. Includes laboratory. Prerequisite: FOS 4041 or equivalent.

### HUN 5123 Ethnic Influences of Nutriture and Food Habits (4)

Systematic study of the food habits of various cultural groups. Emphasis is 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.

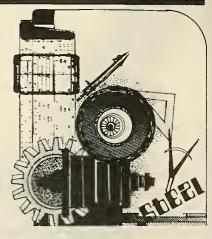
HUN 5245 Nutrition and Biochemistry (4) Advanced study of the relationship of nutrition and biochemistry, with emphasis on digestion, absorption and metabolism of carbohydrates, lipids and proteins. Prerequisite: Physiology, Biochemistry and HUN 4241, (Nutrition II.)

### HUN 5611 Nutrition Education in the Community

Community (4) In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisite: Recent courses in nutrition education or permission of instructor.

### HUN 5621 Food, Nutrition and Communication

Communication (4) Covers concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis is on differences in approach to communication in small groups versus mass media. Prerequisite:



Advanced standing, competency in food and nutrition knowledge.

HUN 5890 Recent Research in Dietetics (4) Updating of dietetic information. Study of current food, management and/or nutrition research. Prerequisite: Competency in foods and nutrition. Recommended for non-majors.

HUN 6247 Nutritional Pathophysiology (4) Systems of the body in relation to the pathological conditions allied to digestion, absorption, metabolism, and other states in which nutrition plays a part in etiology or treatment. Prerequisite: Physiology, DIE 3245 and HUN 4241.

## HUN 6408 Nutrition During the Life Cycle (4)

In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and effects of deficiencies and excesses on metabolism. Prerequisite: HUN 4241 or equivalent.

### HUN 6521 Advanced Community Nutrition

(4) In-depth study of assessment of nutriture in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and methods of delivery or dietary care. Prerequisite: DIE 4365 or equivalent.

### HUN 6811 Laboratory Research Methods in Dietetics (3)(W)

Laboratory application of research methods in dietetics. Prerequisite: DIE 6568 and consent of department chairman.

### Engineering Technology Department

James Story, Associate Professor and Chairperson

LeRoy Thompson, Professor Jose Villate, Associate Professor Manuel Cereijo, Associate Professor Wunnava Subbarao, Associate Professor Juan Villar, Assistant Professor Robert Judge, Assistant Professor Rene Leonard, Associate Professor Jimmy Hahs, Associate Professor Sergio Alcorta, Associate Professor

## **Engineering Technology**

The student who wishes to enter a position which emphasizes the practical application of engineering concepts in areas such as manufacturing, production, design, installation, operation, administration, service and sales will be served by the programs of the Engineering Technology Department. Its programs are designed to give each student technical and organizational knowledge which satisfies the needs of industry, business and government in many rewarding technical careers. The graduate of an Engineering Technology bachelor's degree program is a technical problem solver, with the skills and training necessary for independent action as a part of the engineering team.

The objectives of the programs include: proficiency in the use of the scientific method: the capability to analyze problems through calculus: the application of processes, equipment procedures and methods to industrial problems: the knowledge of a field of specialization including the underlying sciences: individual judgment, initiative and resourcefulness: capability of establishing an effective rapport with workmen, scientists, managers and customers: and effective communication skills.

Three majors are offered in the Department of Engineering Technology: Electrical Engineering Technology, Mechanical Engineering Technology, and Civil Engineering Technology.

The Engineers' Council for Professional Development has accredited the Civil Engineering Technology and Electrical Engineering Technology majors.

### Electrical Engineering Technology

This program offers specialization in the application of electronic concepts, including circuit analysis and design, communications, power, process control, digital systems and related topics.

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Completion of a community college associate's program in electronics technology, electrical technology, or pre-engineering; or the equivalent at a four-year institution. An entering student with an *Associate of Science* degree in Technology should have completed algebra and trigonometry, physics, DC and AC circuits, transistor theory and circuits, prior to transfer. Pre-Engineering (Associate of Arts) or other transfer students should have completed mathematics through calculus, physics (with calculus) and other sciences at the lower division. The student whose background does not include all

of these skills (in *either* Technology or pre-Engineering) may be admitted with deficiencies which must be made up while enrolled at Florida International.

UPPER DIVISION PROGRAM: Quarter Hours Core Courses (AA in Pre-Engineering) 20 ETE 3034C Introduction to Circuit Analysis 5 ETE 3035 Elec Cir. Lab & 3 Comp. ETE 3101 Introduction to Electronics 5 ETE 3030L Electronics Lab 2 5 ETE 3142 Solid State Devices Core Courses (AS in Electronic 20 Technology) MAC 3411 Calculus I 5 MAC 3412 Calculus II 5 5 PHY 3040C Physics PHY 3041C Physics 5 70 Common Core Courses 5 ETE 3620C Logic Design COP 3112 Introduction to Computers 1 5 ETE 3121C Advanced Circuit 5 Analysis ETE 3565C Introduction to 5 **Electrical Power** ETE 3323C Practical Linear 5 Systems Analysis ETE 3421C Modern Communication 5 Technology ETE 4123C Electronic Circuit 5 Analysis ETE 4161C Integrated Circuits Analysis & Application 5 MAN 3504 5 Industrial Operations ETI 4671 Engineering 5 Economy Advised Elective 5 15 Specialization

Minimum Upper Division Required Hours

Specialization: of the following areas:

•	-	
Digital Systems		
ETE 3661C	Advanced Computer	
	Systems	5
ETE 4621C	Advanced Logic	
	Design	5
ETE 4669	Microprocessors	5

Electrical Power	r	
ETE 3526C		5
ETE 4565C	Electrical Power	
	Systems 1	5
ETE 4567C	Electrical Power	
	Systems 11	5
Electronic Com	munications	
ETE 3422	Transmission	
ETE 3422		
	Systems for	~
	Communication	5
ETE 4426C	Advanced	
	Communication	~
	Systems	5
ETE 4170C	Passive and Active	_
	Filters	5
Process Control		
ETE 4324C	Process Control	
	Instrumentation	5
ETE 4325C	Advanced Control	
	Systems	5
ETE 4665C	Digital Process	
	Control Systems	5
	· · · · · · · · · · · · · · · · · · ·	
Mechanical		
EVS 3215C	Applied Hydraulics	5
ETM 4205	Applied	_
	Thermodynamics	5
BCN 3402C		
	Materials	5
Including be	oth lower and upper	divis

Including both lower and upper division coursework, each student must complete a minimum of 34 quarter hours in communications, social science and humanities, and a minimum of 34 quarter hours in basic science and mathematics.

### Civil Engineering Technology

This program emphasizes a broad range of knowledge and skills necessary to participate in major projects, such as construction, design and analysis of highways, waterways, buildings, transportation facilities, public works and development. The program is professionally accredited by the Engineers' Council for Professional Development (ECPD).

LOCATION: Tamiami Campus Only

DEGREE: Bachelor of Science

90

LOWER DIVISION PREPARATION:

Academic credit or proven competency in the following areas: mathematics through calculus, physics, surveying, construction materials, engineering drawing, statics.

*Remark:* A student without this preparation may obtain it while completing the upper division program, by taking additional electives.

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### School of Technology

## Engineering Technology /

#### UPPER DIVISION PROGRAM:

OTTER DIVI.	SION TROORANI.		
11		ter Hours	
Major Requirem		80	1
	Advanced Surveying	5	
BCN 3762			
	Specifications	5	
ETG 3530	Strength of Materials	3	
ETG 3520L	Materials Testing	2	
ETC 3412	Determinate		
	Structural Analysis	3	
ETC 3220C	Soil Mechanics and		
	Foundations	5	
ETC 3210L	Soil Mechanics		
	Laboratory	2	
ETC 3420	Indeterminate		
	Structural Analysis	5	
ETC 4541	Traffic and		
	Transportation		
	Engineering		
	Technology	5	
ETC 4502	Geometric Design of		
	Highways	5	
ETC 4440	Steel Design	5	
ETC 4450C	Reinforced Concrete	-	
	Design	5	
ETC 4429	Computer	-	
210	Applications in		
	Structural Analysis		
	and Design	5	
COP 3112	Introduction to	2	
001 0112	Computers	5	
EVS 3215C	Applied Hydraulics	5	
EUS 3200	Introduction to	د	
LUB 5200	Environmental and		
		5	
ETI 4671	Urban Systems	2	
E1140/1	Engineering		
ETG 3510	Economy	5 5	
	Dynamics	2	
*or demonstrated competency <i>Electives:</i> selected with an advisor to			
meet objectives:		10	

(Minimum) 90

Including both lower and upper division course work, each student must complete a minimum of 34 quarter hours in communications, social science, and humanities, and a minimum of 34 quarter hours in basic science and mathematics.

Three specializations are available to the majors in Civil Engineering Technology, should they choose to not select the above general program. These specializations give the Civil Engineering Technology student the opportunity to pursue an area of specialization in Environmental Systems, Planning Systems, or Transportation Systems.

These three specializations emphasize the interactions of people with their designed environment. The graduates of these specializations will have gained a learning experience to improve the quality of life through the insight obtained with a broad background of natural sciences, social sciences, and technical courses.

### LOWER DIVISION PREPARATION:

In addition to the required preparation for the general upper division program of Civil Engineering Technology, the student should have academic credit or proven competency in chemistry and biology for the specializations. A student without such preparation may correct any of the deficiencies while pursuing the program by taking additional courses.

#### ENVIRONMENTAL SYSTEMS

Instead of taking the 25 credits of ETC 4502. ETC 4429, EUS 3200, and the electives (10) in the general program of Civil Engineering Technology, the student will replace these credits with the following courses as the specialization requirements:

EVS 3360	Air Resources
EVS 3264C	Water Resources
EVS 4233C	Unit Operations I
EVS 4234C	Unit Operations II
EVS 4463C	Water Supply Systems
The following a	additional courses are
recommended:	

EVS 3219C Aquatic Systems

ENC 3353 Report and Technical Writing

### PLANNING SYSTEMS

Instead of taking the 25 credits of ETC 4502, ETC 4429. EUS 3200, and the electives (10) in the general program of Civil Engineering Technology; the student will replace these credits with the following courses as the specialization requirements:

ETC 3570	Introduction to Transportation			
	Systems			
URP 3000	Urban Planning Concepts			
EVS 3264C	Water Resources			
URP 4021	Urban Land Use Planning			
ARC 4335C	Site Development			
The following additional courses are				
recommended:				
EVS 3360	Air Resources			
ENC 3353	Report and Technical Writing			

### TRANSPORTATION SYSTEMS

Instead of taking the 25 credits of BCN 3762, ETC 4429. EUS 3200. and the (10) credits of electives in the general program of Civil Engineering Technology, the student will replace these credits with the following courses as specialization requirements:

	ETC 3570	Introduction to Transportation
		Systems
	URP 3000	Urban Planning Concepts
	EVS 3264C	Water Resources
	ETC 4560	Transportation Planning
	URP 4021	Urban Land Use Planning
Т	he following :	additional courses are
Г	commended:	
	EVS 3360	Air Resources

ENC 3353 Report and Technical Writing

### Mechanical Engineering Technology

This program offers specialization in the application of energy, materials, mechanics, and design to industrial problems.

LOCATION: Tamiami Campus only.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Academic credit or proven competency in the following areas: mathematics through calculus, physics, engineering drawing, statics, manufacturing processes.

Remarks: A student without this preparation may obtain it while completing the upper division program by selection of additional electives.

### UPPER DIVISION PROGRAM:

Major Requirements:

Quarter Hours 90

ujui recyanem	PC / 48.5 -	-
ETG 3530	Strength of Materia	
ETG 3520L	Materials Testing	2
ETE 3034C	Introduction to	
	Circuit Analysis	5
ETE 3101	Introduction to	
	Electronics	5
MAN 3504	Industrial Operation	ns 5
ETI 4671	Engineering	
	Economy	5
COP 3112	Introduction to	
	Computers I	5
ETG 3510	Dynamics	5
ETM 3801	Basic Materials	5
ETM 3510	Mechanical Design	I 5
ETM 4205	Applied	
	Thermodynamics	5
ETM 4225C	Energy Systems	5
ETM 4720	Air Conditioning	
	Refrigeration	
	Principles	5
ETM 4221L	Mechanical	
	Laboratory	2
ETM 4643L	Air Conditioning	
	and Refrigeration	
	Laboratory	2
ETM 4205L	Applied	
	Thermodynamics	
	Lab	2
		Continued

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## **Engineering Technology**

	ETM 4652	Instrumentation	5
	EVS 3215C	Applied Hydraulics	5
*/		ed with an advisor in	
ar	area of speci	alization:	
М	linimum Uppe	er Division Required	
	ours:		
	Typical special	lization areas:	
1.	Heating, Ver	ntilating & Air Conditio	ning
D	esign Speciali	zation (Professional Cer	tificat
		Air Cond. Design I	3
		Air Cond. Design 11	3
		Mechanical Systems	
		in Construction	5
	BCN 3521	Electrical Systems in	
		Construction	5
2.	Electromecha	anical Specialization	
	ETE 3121C	Advance Circuit	
		Analysis	5
	ETE 3565C	Introduction to	
		Electrical Power	5
	ETE 3526C	Electrical Machinery	5
	ETE 4565C	Electrical Power	
		Systems I	5
	ETE 4567C	Electrical Power	
		Systems II	5
3.		inergy Specialization	
	ETM 3312	Fluid Power	5
	ETM 5238	Heat Transfer	5
	ETM 5260	Solar Energy	
		Technology &	
		Application	5
	ETG 4930	Ocean Energy	
		Systems	5
4.		ng Specialization	
	ETM 4511	Mechanical Design	_
		II	5
	ETI 3645	Production Planning	
		& Control I	5
	ETI 3661	Plant Layout	5
	ETI 4603	Method	
		Improvement	5
	ETI 4660	Material Handing	5

Including both lower and upper division course work, each student must complete a minimum of 34 quarter hours in communications, social science, and humanities, and a minimum of 34 quarter hours in basic science and mathematics (general education requirements.)

### Professional Certificate Program

### Heating, Ventilating, and Air Conditioning Design

The purpose of this professional certificate program is to produce a learning experience that will enhance the design capabilities of professionals in the field. Emphasis will include engineering science background as well as practical applications of systems design.

L				
The certificat	te will be awarded t	o a student		
who successfully demonstrates competency in:				
ETM 4205	Applied			
	Thermodynamics	5		
BCN 3560C	Mechanical System	s		
	in Construction	5		
ETM 4720C	Principles of Air			
	Conditioning &			
	Refrigeration	5		
ETM 4225C	Energy Systems	5		
ETM 4750	Air Conditioning			
	Design 1	3		
ETM 4221L	Mechanical Lab I	2		
ETM 4642	Air Conditioning			
	Design II	3		
ETM 4643L	Mechanical Lab II	2		
ETI 4671	Engineering			
	Economy	5		

### Master of Science in Environmental and Urban Systems

### **Admissions Requirements**

The applicant must meet the general University admission requirements and should have completed an undergraduate major in environmental or urban systems, engineering, the natural sciences or a related field. Students who do not meet the stated criteria may be considered for admission if they have completed certain prerequisites and have work experience or other qualifications in the field. Additional courses may be required for some areas of specialization.

### **Degree Requirements**

To be eligible for a Master's Degree in the area of Environmental and Urban Systems, a student must:

- 1. Satisfy all University requirements for a Master's Degree.
- 2. Meet any undergraduate deficiencies, the requirements of the core, and complete a specific program of study.
- Complete a minimum of 53 quarter hours of graduate level courses. (Not more than 10 graduate credit quarter hours can be transferred from other accredited institutions.)
- 4. Achieve a "B" average or better in all graduate work.
- 5. Complete an acceptable graduate thesis.

The M.S. in Environmental and Urban Systems consists of 53 quarter hours of graduate credit.

### **Course Descriptions**

### COMPUTER ENGINEERING TECHNOLOGY

Definition of Prefixes ETE-Engineering Technology: Electrical; COP-Computer Programming.

#### ETE 3620C Logic Design (5) Karnaugh maps and Quine McCluskey reduc-

Karnaugh maps and Quine McCluskey reduction techniques, study of analytical and empirical tools necessary to design with digital IC's, combinational logic, and sequential circuits are considered (includes lab). Prerequisite: Boolean Algebra.

### ETE 3650C Computer Hardware Fundamentals

(5)

Analysis of computer elements and systems composed of flip-flops registers, counters, adders, etc., study of a basic arithmetic unit, core memory system, control units and organization of these units into a system (includes lab). Prerequisite: Boolean Algebra.

ETE 3661C Advanced Computer Systems (5) Study of hardware computer systems and components in a laboratory environment, arithmetic and memory system, complete minicomputer, digital communications system, digital modem input-output interface (includes lab). Prerequisite: ETE 3620C.

ETE 4621C Advanced Logic Design (5) Analysis, design and optimization of combinational systems, and interactive networks; study of digital systems such as multiplexers, D/A and A/D converters, digital multimeters, modems, arithmetic circuits, etc. Prerequisite: ETE 3620C.

### ETE 4669 Micro Processors

(5) rganiza-

(5)

Lecture/Lab-Including hardware, organization, interfacing, system components, application, design and selection. System development and usage through software. Prerequisites: COP 3110 and ETE 3661C.

### **COOPERATIVE EDUCATION**

**Definition of Prefixes** 

ETG-Engineering Technology: General.

### ETG 3949 Cooperative Education Technology

Supervised full-time work quarter for technology cooperative education students. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

(5)

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### ETG 4949 Cooperative Education Technology

Supervised full-time work quarter for technology cooperative education students. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

### **ELECTRICAL ENGINEERING** TECHNOLOGY **Definition of Prefixes**

ETE-Engineering Technology: Electrical; ETG-Engineering Technology: General; BCN -Building Construction.

### BCN 3521 Electrical Systems in Construction

A survey of electrical and lighting requirements for residential, industrial, and commercial buildings. Emphasis on estimating circuits, power requirements, layout constraints, etc. No prerequisites.

ETE 3030 Survey of Electronics (5)The basic principles of AC and DC circuits, solid state devices, and fundamental electronic circuits. This course is intended for students outside of the Electrical Engineering Technology major with no prior knowledge of electronics (includes lab).

### ETE 3030L Electrical and Electronic Laboratory

Introduction to laboratory equipment and techniques for pre-engineering students. Includes laboratory experiments on AC and DC circuits, electronic equipment and circuits. Instrumentation such as meters, oscilloscopes, generators, etc. Corequisite: ETE 3101.

### ETE 3034C Introduction to Circuit Analysis

(5)Introduction to AC and DC circuit analysis. Use of complex algebra and phasors. Loop and node analysis. Resonance circuits. Introduction to three phase circuits. Transient analysis of first and second order circuits asing calculus. Prerequisites: MAC 3412 and Physics with electricity or equivalent.

ETE 3101 Introduction to Electronics (5) Introduction to electronic circuit elements and analysis using calculus. Diode and transistor principles and circuits. Survey of pulse and digital circuits and various semiconductor devices. Prerequisite: ETE 3034C or equivalent. Corequisite: ETE 3030L.

ETE 3121C Advanced Circuit Analysis (5)This course provides the student with a basic knowledge of Laplace transforms for practical applications in networks and systems. Complex frequency poles and zeros concepts and applications, transformed networks, Fourier transform and signal spectra are also covered. Prerequisite: ETE 3034C or equivalent. Corequisites: MAC 3412 and ETE 3101.

ETE 3142 Solid State Devices (5) Study of virtually all modern semiconductor devices with applications, MOFSET, photodetectors, thyristors, unijunction transistors, special diodes, etc. (includes lab). Prerequisite: ETE 3101 or equivalent.

ETE 3323C Practical Linear Systems (5)Basic concepts and application of linear systems, feedback systems, stability analysis, Bode plots and root-locus techniques. Prerequisite: ETE 3121C.

ETE 3421C Communication Systems (5)Definitions, basic concepts and application of analog and digital modulation techniques. Modulators for generating various signals and demodulators for information recovery are studied. Quantization. Decoding. Effect of noise in communication systems. Prerequisite: ETE 3034C or equivalent.

### ETE 3422 Transmission Systems for Communication

(5) Use of Smith Chart. Different transmission lines and microwave channels. Laboratory experiments using spectrum analyzers to study AM, FM and pulse modulation system. Simulation of transmission lines. Prerequisite: ETE 3421C.

ETE 3526C Electric Machinery (5)Analysis of rotating electric machinery with emphasis on industrial applications (includes lab). Prerequisite: ETE 3565C, or equivalent.

#### ETE 3565C Introduction to Electrical Power (5)

Structure of electrical power systems. Major components and modern energy systems. Magnetism and magnetic circuits. Mutual induction and self induction. Three-phase circuit analysis and per unit calculations. Transformers and transformer connections. Energy conversion. Power system loads and statistical load-forecasting. Calculation of cost of electrical energy. Prerequisite: ETE 3034C or equivalent.

ETE 4123C Electronic Circuit Analysis (5) Analysis and design of electronic circuits using bipolar transistors. FET's and MOSFET's. Application of frequency response techniques to the analysis and design of feedback amplifiers, tuned amplifiers, oscillators, modulators and demodulators, power amplifiers etc. Introduction to integrated circuits. Prerequisites: ETE 3121C and ETE 3142 or equivalents.

#### ETE 4161C Integrated Circuits Analysis and Application (5)

Application of state-of-the-art integrated circuits. Comparison of different IC's from the SSI, MSI, and LSI areas. Design and characteristics of linear and digital integrated circuits Prerequisite: ETE 4123C & ETE 3620.

ETE 4170C Passive and Active Filters (5)Practical application of passive and active filters to communication and process control systems. laboratory applications. Prerequisite: ETE 3121C.

### ETE 4324C Process Control Instrumentation (5)

Servomechanisms analysis and design. Sensors, transducers, recorders, error detecting devices and other electronic and electromechanical components of control systems. Basic lab experiments on servomotors, tachometers, synchros, operational amplifiers as components and systems. Use of analog computer. Prerequisite: ETE 3323C.

ETE 4325C Advanced Control Systems (5) Practical design of control systems. Industrial applications. Design and hardware implementation of industrial controllers. Control algorithms. Use of root-locus and Bode plots. Includes lab. Prerequisite: ETE 3323C.

### ETE 4426C Advanced Communication Systems

(5)

Study of advanced communication systems and techniques. Emphasis is placed on the study of digital and FM systems. Phase-lock techniques, noise analysis. threshold data, and transmission are among the subjects extensively covered (includes lab). Prerequisite: ETE 3421.

ETE 4565C Electrical Power Systems 1 (5) Power network concepts. AC & DC transmission power transmissions, power transmission lines, power network representations, basic network solutions, symmetrical fault studies, symmetrical components. Prerequisite: ETE 3565C, or instructor's consent.

ETE 4567C Electrical Power Systems II (5) Unsymmetrical faults and loads; the bus impedance matrix solutions for fault studies. Control of voltage, watts, vars. Load flow, economic dispatch and system stability. Prerequisite: ETE 4565C, or imstructor's consent.

### ETE 4685C Digital Process Control Systems (5)

Study of digital process control systems. Time frequency response to discrete systems. Digital controllers. Application to industrial processes. Laboratory work with digital components and systems (includes lab). Prerequisite: ETE 3323C.

(5)

## **Engineering Technology**

#### (1-5)ETC 4502 Geometric Design of Highways ETG 4905 Independent Study ETC 3412 Determinate Structural Analysis Specialized intensive study in an area of special (3) interest to the student. Consent of faculty in-Analysis of statically determinate structural connaissance, preliminary and systems by analytical methods. Reactions: structor required. shear, axial and moment diagrams, truss analy-**ETG 4930 Special Topics** (1-5)sis, influence lines: moving loads. Prerequisite: For a group of students who wish an intensive ETG 3530 or equivalent. study of a topic not otherwise offered in the University. Consent of faculty supervisor and ETC 3420 Indeterminate Structural Analysis Department Chairperson is required. (5)3322C and COP 3112 or equivalent. Analysis of indeterminate structural systems. **CIVIL ENGINEERING TECHNOLOGY** ETC 4541 Traffic and Transportation Development and use of theorems of moment Definition of Prefixes **Engineering Technology** area, conjugate beam, elastic weights, virtual ETC-Engineering Technology: Civil; ETGwork. Slope deflection and moment distribution Engineering Technology: General. methods. Moving loads and influence lines. In-**BCN 3210C Construction Materials** (5) troduction to stiffness method and flexibility Lecture/Lab-A study of the origins, producmethods. Application of matrix methods. Pretion and uses of construction materials, such as requisite: ETC 3412. concrete, steel, aluminum, wood, plastics, brick requisites: COP 3112 and Calculus. ETC 4222C Foundations Design and and stone. Includes testing lab, which consists Construction (5)of testing and evaluating properties of construc-

(2) ETC 3210L Soil Mechanics Laboratory Laboratory experiments in identification, properties and behavior of soils. Prerequisite or corequisite: ETC 3220C.

(5)

#### ETC 3220C Soil Mechanics and Foundations

tion materials. Prerequisite: Physics.

Identification and properties of soils. Behavior of soils relating to design and construction of foundations for structures and pavements. Prerequisite: BCN 3402C or ETG 3530.

ETC 3321L Surveying (5) Lecture/Lab-Computations and field procedures associated with measuring of distances and angles, using tape, level and transit. Laboratory included with field measurements. Prerequisite: Trigonometry.

ETC 3322C Advanced Surveying (5)Lecture/Lab-Computations and field procedures for earthworks and horizontal and vertical curves. Applications in establishing horizontal and vertical control in boundary determination, mapping, photogrammetry. Laboratory is included which consists of field measurements, layouts and computations. Prerequisite: ETC 3321L or equivalent.

ETC 3323C Land Surveying (5) The theory and practice of land surveying, including computations, procedures, platting, records, land descriptions, legal aspects, control requirements, urban surveys, coastal boundary surveys, astronomical observations, U.S. Government and State requirements. Cadastral surveying and professional registration. Prerequisite: ETC 3321L.

Use of soil mechanics and subsurface construction theory and practice for design and construction of foundations for buildings and other engineering facilities. Topics include shallow and deep foundations, excavation, bracing and retaining structures. Prerequisite: ETC 3220C.

### ETC 4429 Computer Applications in Structural Analysis and Design

Discussion and application of various available computer programs and equipment for structural analysis and design. Application of the stiffness method and the flexibility method of structural analysis. Prerequisites: BCN 4431, ETC 4450C and COP 3112.

(5)

ETC 4440 Steel Design (5) The analysis and design of structural elements and connections for buildings, bridges and specialized structures utilizing structural steel. Both elastic and plastic designs are considered. Prerequisite: ETC 3412.

ETC 4450C Reinforced Concrete Design (5) The analysis and design of reinforced concrete beams, columns, slabs, retaining walls and footings. Both the working and ultimate strength design methods will be discussed, with primary emphasis corresponding to recent ACI Building Code. Prerequisite or corequisite: ETC 3420.

ETC 4460 Timber Design (5)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: BCN 3402C or ETG 3530 or equivalent.

Route surveys by ground and aerial method-relocation surveys; geometric properties of highway surveys; spiral theory; design controls for both vertical and horizontal alignments. Applications of various available computer programs and equipment to the design of highways. ETC

(5) Characteristics of traffic, roadway, vehicular and human factors. Design, development regulations in modern transportation systems. Stream of flow, capacity, parking, accident analysis and intersection characteristics. Pre-

ETC 5422C Advanced Structural Design (5) The design of structural systems to formalize the student's knowledge of the behavior of individual components into a final integrated structure. Continuous span and simple span highway bridges, culverts, retaining walls, rigid frames, multistoried buildings and similar problems of interest to the student. Prerequisites: ETC 4440 and ETC 4450C.

ETC 5470 Prestressed Concrete Design (5)The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete members, and designing these members into the integral structure. Prerequisite: ETC 4450C.

#### ETC 5507C Advanced Geometric Design of Highways (5)

Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required, Prerequisite: ETC 4502.

#### ETC 5514 Pavement Design (5)

Analysis and design of sub-base, base and pavement of a roadway. Discussions of flexible pavement and rigid pavement as structural units. Boussinesq's approach. Westergaard's theory. Beams on Elastic Foundations. Prerequisites: ETC 3220C and ETC 4450C.

### ETG 3502 Statics

Study of forces acting on bodies, including coplanar and non-coplanar forces, concurrent and non-concurrent forces, friction forces and hydrostatic forces. Prerequisites: Physics. Calculus.

(3)

ETG 3520L Materials Testing Lab (2) A laboratory study of principle materials with particular attention to their mechanical properties and significance for engineering uses. Prerequisite or corequisite: BCN 3402C or ETC 3530 or equivalent.

ETG 3530 Strength of Materials (3) Axial, torsional, shear, bending and combined stress and strain analysis: mechanical properties and applications for static, dynamic, fatigue and creep conditions. Prerequisite: ETG 3502 or equivalent.

### ENVIRONMENTAL AND URBAN SYSTEMS

### **Definition of Prefixes**

EVS-Environmental Science; ETC-Engineering Technology: Civil; URP-Urban and Regional Planning; OCB-Oceanography-Biological.

ETC 3570 Introduction to Transportation Systems (5)

Role of transportation in urban and regional development; elements of the transportation system; characteristics and design considerations of various modes; the travel way; facilities; control and guidance; selected design standards and technology; operational characteristics; planning techniques.

ETC 4560 Transportation Planning (5) Principles of transportation planning; origindestination studies; methodology used in generating transportation plans; techniques for predicting and evaluating the consequences of various alternives; transportation planning for Dade County. Prerequisite: ETC 3570.

### ETC 5571 Advanced Transportation Systems (5)

Examination of innovative transportation systems technology; technical feasibility; system attributes; energy requirements; marketability of proposed systems; probable effect on modal choice behavior; evaluation of possible applications in the Greater Miami area. Prerequisite: ETC 4560.

#### ETC 5572 Introduction to Urban Systems Modeling (5)

Transportation modeling; systems view of the urban area; planning applications of modeling. Prerequisite: COP 3112, or consent of the instructor.

ETC 5573 Urban Mass Transit Planning (5) The mass transportation problems. Topics include: demand analysis and projection, marketing urban mass transit; existing urban mass transit systems in the U.S.; techniques for planning mass transit systems; governmental regulation and subsidies to the transportation sector. Prerequisite: ETC 5571.

### EUS 3200 Introduction to Environmental and Urban Systems (5)

This course is designed for non-majors as an integrated approach to the role of technological man in the bioshpere. Emphasis is on methods for the environmental quality improvement of land, air, water, transportation, and planning systems.

EVS 3215C Applied Hydraulics (5) A course to provide background in basic hydraulic technology. The fundamental theorems are studied and then applied to the collection and distribution of water and the collection and treatment of wastewaters.

EVS 3219C Aquatic Systems (5) Biological, chemical and physical aspects of freshwater lentic and lotic ecosystems. Emphasis is on the freshwater systems of South Florida.

EVS 3264C Water Resources (5) Study of the hydrologic cycle; ground and surface water occurrence and quality; sanitary protection of surface and groundwater; sources of pollution; water quality management; multipurpose uses of water and reuse; determination of municipal, industrial, and agricultural water requirements.

EVS 3268C Marine Technology (5) Technological aspects of ocean systems. Prerequisite: EVS 3219 or consent of instructor.

### EVS 3360 Air Resources

(5)

(5)

An introductory course on characteristics of the earth's atmosphere and aspects of air pollutants. Effects of air pollutants on health, vegetation and property. Control measures, legislation and projections.

### EVS 3420C Environmental Instrumentation

A lab/field course for the critical evaluation of basic instrumental methods of environmental sampling and analysis. Includes field sampling (sample preparation and storage), laboratory skills, and legal considerations.

**EVS 3428 Environmental Management** (5) The wise use of land and water for parks and recreational areas. Environmental design and need for green spaces. Ecologically safe methods for the control of vegetation and insects.

EVS 3601C Environmental Health (5) The effects of environmental pollutants on man's health and the quality of life.

### EVS 4233C Unit Operations 1

Principles of wastewater treatment. Physical and biological unit treatment operations, including sludge digestion. Significance of laboratory tests. Laboratory work and occasional field trips required. Prerequisite: EVS 3215.

EVS 4234C Unit Operations II (5) A continuation of EVS 4233, incorporating chemical unit operations including effluent disinfection. Laboratory work and occasional field trips required. Prerequisite: EVS 4233C.

EVS 4463C Water Supply Systems (5) Development of water supplies. Treatment of water including disinfection techniques. Distribution systems. Laboratory work. Prerequisite: EVS 3264C and EVS 4233C, or consent of instructor.

EVS 4905 Independent Study (1-5) Individual research studies available to academically qualified students. Consent of instructor required.

EVS 4930 Special Topics (1–5) Study of specific aspects (of environmental technology or urban systems) not available through formal course study. Open to academically qualified students. Consent of instructor required.

EVS 5218 Advanced Hydraulies (5) An advanced course in hydraulics. Topics include open channel flows, spillways, stilling basins, energy-dissipating devices, rheology, and principles of fluidics. Prerequisite: EVS 3215. or consent of instructor.

### EVS 5235C Wastewater Collection and

Treatment (5) Wastewater collection systems. Integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisites: EVS 4233 and EVS 4234, or consent of instructor.

EVS 5242 Water Quality Management (5) Predicting and evaluating the effects of human activities on streams, lakes, estuaries and groundwaters; and the relation of human activities to water quality and protection of water resources. Prerequisite: EVS 4234, or consent of instructor.

### EVS 5261 Biological Monitoring of

Freshwater Ecosystems (5) The use of aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ecological aspects of aquatic insects in relation to pollution stress are assessed. Prerequisite: EVS 3219, or consent of instructor.

EVS 5267 Water Quality Indicators (5) Ecological studies of micro and macro-organisms which are indicators of water quality. Emphasis on bioassays and early warning systems. Prerequisite: EVS 5261, or consent of instructor.

EVS 5361 Air Sampling and Analysis (5) 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: EVS 3360 or EVR 4231.

EVS 5362 Air Pollution Control (5)Air pollution control-devices, principles, efficiencies, costs. Gas scrubbers, electrostatic precipitators, thermal deposition, filters, condensors, after-burners. By-product recovery. Stoichiometry of combustion mixtures and basic industrial plant designs are discussed. Prerequisite: EVS 3360 or EVR 4231.

EVS 5369 Air Quality Management (5)A course in air resources designed to review the administrative, legislative and regulatory process in air pollution control. Agencies, surveillance networks, data, criteria for establishing standards, regulations and educational programs.

**EVS 5421C Industrial and Environmental** Toxicology (5)

Introduction to toxicological studies in the urban environment. Prerequisite: EVS 3601C, or consent of instructor.

EVS 5425C Vector and Pest Control (5)Effects and management of public health vectors and communicable diseases. Prerequisite: EVS 3601C, or consent of instructor.

(5)

### **EVS 5426C Advanced Environmental** Instrumentation

A laboratory oriented course, dealing with the most sensitive and sophisticated instruments used in environmental analysis. Covers theory of specialized laboratory procedures and instruments, optics, electronics, design, cost, versatility, and operational instrument parameter considerations. Assigned projects. Prerequisite: EVS 3420C, or consent of instructor.

EVS 5682 Solid Waste Management (5)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.

EVS 5741 Noise (5)Fundamentals of sound and noise. Health hazards and other effects. Case studies-measurement and noise control in transportation, environment, construction and industry. Abatement laws and ordinances in Dade County and worldwide

EVS 5905 Independent Study (1-5)Individual research studies available to academically qualified students on graduate status.

**EVS 5930 Special Topics** (1-5)Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

### EVS 6050C Advanced Planning Implementation

Critical examination of traditional implementation tools. New growth management strategies -moratoria, filming, capital improvement programs, PPBS. Case studies from U.S.A. Innovative methods and governmental policies. Prerequisite: URP 4021 and URP 4011.

(5)

(5)

EVS 6051C Advanced Unit Operations 1 (5) Theory and design of physical, chemical, and biological unit operations as applied to the advanced treatment of water and wastewater. Prerequisite: EVS 5242.

EVS 6052C Advanced Unit Operations II (5) A continuation of EVS 6051C including the reuse of treated wastewaters and of sludges. Prerequisite: EVS 6051C.

#### **EVS 6053C Advanced Treatment** Systems

Integration of unit operations into advanced treatment systems for waters and wastewaters. Prerequisite: EVS 6052C.

EVS 6054 Aquatic Reclamation (5) Evaluation of techniques to improve the water quality of lakes, canals and rivers. Cultural eutrophication corrective measures are emphasized. Prerequisites: EVS 3219, EVS 5267, or consent of instructor.

### EVS 6269C Industrial Wastewater Treatment

(5) Characteristics and composition of industrial wastewaters. Sampling techniques and analyses. Water conservation and reuse. Joint industrialmunicipal collection and treatment of wastwaters. Prerequisite: EVS 6053C.

EVS 6422 Environmental Assessment (5)An examination of alternative techniques useful for the analysis and evaluation of environmental impacts of man's activities. Prerequisite: URP 6821.

EVS 6424 Air-Land Interface Studies (5) An environmental evaluation of the relationship between the atmosphere and the continental surfaces in a non-urban or natural system. Prerequisite: EVR 5236, or consent of instructor.

### EVS 6603 Advanced Industrial and

**Environmental Toxicology** (5)Laboratory investigations with toxic substances, especially those related to man-made pollution. Prerequisites: EVS 3601, and EVS 3421.

#### EVS 6939 Seminar (1-3)

The course consists of oral presentations made by students, guests and faculty members on current topics and research activities in environmental and urban systems.

#### EVS 6970 Thesis (10)

**OCB 4702** Aquatic Products

(5) Commercial products, already developed, which may be obtained from aquatic systems. Prerequisite: EVS 3268, or consent of instructor

OCB 6631 Air-Water Interface Studies (5)Mechanisms of materials transfer from water bodies to the atmosphere and from the atmosphere to the water will be discussed. Prerequisite: EVS 3360.

URP 3000 Urban Planning Concepts (5)Planning fundamentals; objectives and scope of urban planning; theories of land use patterns; population studies; cohort survival technique; employment studies; economic studies; estimating demand for various land usage; physical, social, political and managerial conditions; comprehensive plan and its elements, aesthetics and design concepts for communities; implementation tactics.

**URP 4011 Planning Implementation** (5)Planning law and administration; practice in formulation of zoning ordinance; land subdivision, urban renewal; trends and innovations in control of growth-case studies in U.S.A.; critical path method (CPM); planning, programming, budgeting systems (PPBS) and capital improvement programs. Prerequisite: URP 3000.

URP 4021 Urban Land Use Planning (5)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: URP 3000.

### URP 4030 Analysis of Technological Systems

Fundamental concepts of systems analysis; types of systems; input-output relationship; positive and negative feedback control; generation of system alternatives; tradeoff and sensitivity analysis; elementary optimization techniques.

(5)

URP 5400 Urban and Regional Analysis (5) 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: COP 3112, or consent of instructor.

URP 5425 Environmental Planning (5) Ecological principles necessary to preserve a quality environment are presented by means of planning policies, processes and environmental indicators. Emphasis will be placed on the impact of growth on environmental quality. Prerequisites: EVS 3360, URP 3000 and EVS 3264.

URP 6423 Environmental Modeling (5) 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. Prerequisites: COP 3112, ETC 5572, or consent of instructor.

URP 6821 Urban Systems Analysis (5) 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: COP 3112, URP 4030, or consent of the instructor.

### MECHANICAL ENGINEERING TECHNOLOGY

### Definition of Prefixes

BCN-Building Construction; COP-Computer Programming; ETG-Engineering Technology: General; ETI-Engineering Technology: Industrial; ETE-Engineering Technology: Electrical; ETM-Engineering Technology: Mechanical; MAC-Mathematics: Calculus.

### BCN 3560C Mechanical Systems in

Construction (5) A survey of plumbing, heating, air conditioning and ventilation systems for building (includes lab).

ETG 3510 Dynamics (5) Study of the motion of particles and members applied to technical problems. Impact momentum and mechanical energy. Prerequisites: MAC 3412, and ETG 3502, or equivalent.

ETI 3411C Manufacturing Processes 1 (5) An introduction into the processes used to convert raw materials into finished products. Includes information on casting, forging, machining, and forming (includes lab).

### ETM 3312 Fluid Power

A study of the development, transmission and utilization of power through fluid power circuits and controls (includes lab). Prerequisite: EVS 3215C. or equivalent.

ETM 3510 Mechanical Design 1 (5) Design analysis of elementary machine members including shafting springs screws belts

bers including shafting, springs, screws, belts, clutches, brakes, chains, welds, and rivets. Pre-requisites: ETG 3510, ETG 3530, or equivalent.

ETM 3801 Basic Materials (5) A study of ferrous and nonferrous metals and alloys. Includes atomic structure, bonding, and arrangement of atoms; phase diagrams; reactions within solid materials, and the interrelation of these to show how structure determines the properties of a material.

ETM 4205 Applied Thermodynamics (5) Fundamental concepts of basic thermodynamics, including thermodynamic properties and processes, first and second laws of thermodynamics and application of the principles to energy conversion systems, introduction to heat transfer. Prerequisite: MAC 3412.

### ETM 4205L Applied Thermodynamics Laboratory

Conduction, convection and radiation experiments, regeneration, stirling and air standard power cycles, combustion processes. Prerequisites: ETM 4205C, ETM 4221, ETM 4643C.

ETM 4221L Mechanical Lab I (2) The most modern available testing equipment is used for experiments in hydraulics, fluid power equipment, internal combustion engines including the Stirling Cycle Hot Air Engine, gas turbines, steam turbines, boilers, centrifugal and axial fans, rotary and sliding van compressors, convection and radiation and solar energy. Prerequisite: ETM 4205C.

### ETM 4225C Energy Systems

Review of theory and engineering aspects of conventional energy conversion systems, fuels and combustion, fossil fuels, and nuclear power plants. Mechanical engineering aspects of direct energy conversion (includes lab). Prerequisite: ETM 4205C, or equivalent.

ETM 4511 Mechanical Design II (5) Continuation of the design analysis of elementary machine members, including lubrication, bearings, and gearing. Introduction to advanced analysis techniques. Prerequisite: ETM 3510.

#### ETM 4643L Air Conditioning and Refrigeration Lab

Refrigeration Lab (2) Experiments in air conditioning, refrigeration, reverse cycle and strip heating, water cooling towers, automotive air conditioning, absorption refrigeration, and solar energy applications to heating and cooling. Prerequisite: ETM 4205C.

(5)

(5)

### ETM 4652 Instrumentation

(5)

(2)

(5)

Presentation of experimental methodology; basic instrumentation used in mechanical engineering and its calibration and use; accuracy, error and uncertainty in experimental measurements; engineering report writing (includes lab). Prerequisites: ETG 3530C, ETM 4205C, ETE 3034C, and senior standing.

### ETM 4720 Air Conditioning Refrigeration Principles (5)

The theory, operation and control of heat pump cooling and heating, chemical absorption cooling and steam jet refrigeration systems. (Includes laboratory). Prerequisite: ETM 4205C.

ETM 4750 Air Conditioning Design 1 (3) Psychrometry confort; mechanical refrigeration; heat pumps; load calculators; cooling coil performance; heating and humidification; air distribution duct design fans. Prerequisite: ETM 4205C.

ETM 4752 Air Conditioning Design II (3) Air conditioning systems; piping, pumps, hydronics; chillers, boilers, piping and combinations; cooling towers; heat recovery systems; automatic control; instruments. Prerequisite: ETM 4750.

### ETM 5238 Heat Transfer

Fundamental concepts of conduction, convection and radiation heat transfer, including practical numerical analysis in addition to conventional analytical and empirical methods.

Prerequisites: MAC 3412, COP 3110 and ETM 4205C, or equivalent.

### ETM 5260 Solar Energy Technology and Applications (5)

Basic principles of solar radiation, transmission and absorption. Flat plate, passive and focusing collectors. Thermal storage applications to water heaters, air conditioning, power generation, swimming pool heating and process heat supply, and their economies. Prerequisites: ETM 4225C, ETM 4206L.

## Home Economics

### **Home Economics**

Betty Morrow, Assistant Professar and Chairperson Florence Ogle, Associate Professor Adele Smith, Assistant Professar Penelope Storm, Assistant Professor Greta Howard, Instructor

The Department offers a major in Home Economics with several areas of specialty intended for the student desiring a related career in business, industry or government. Specialties are available in Management and Consumer Affairs, Fashion Design Management, Fashion Merchandising Management, Clothing and Textiles, Family and Child Development, and Food and Nutrition, or the student may choose a General Home Economics program. All majors are required to obtain vocational experience through the completion of career traineeships.

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

*Required:* general education requirements for associate of Arts degree, associate in Fashion Design for those entering that specialty.

*Recommended:* courses in home economics, fashion, chemistry, economics, art, psychology, sociology, and anthropology.

### Fashion Design Management

This program is open only to students who have completed an Associate degree in fashion design. It is planned for those desiring careers in the apparel industry in line coordination, production control or supervision, as well as design.

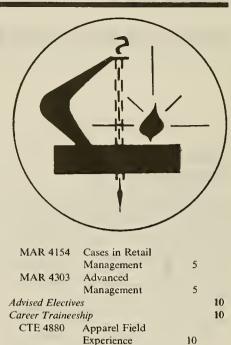
	Quar	ter H	ours
Core Courses:			21
	Orientation	1	
COA 3410	Consumer Resources	5	
CTE 3401	Consumer Textiles	5	
CTE 3761	Fashion Production		
	and Distribution	5	
HME 3210	Personal and Career		
	Management	5	
Specialization:			60
	Math or Statistics		
	Course	5	
CTE 3602	Fashion and Culture	5	
CTE 3735	Advanced Fashion		
	Illustration	5	
CTE 3742	Pattern and Grading		
	Analysis	5	
CTE 3762	Cutting Analysis and		
	Material Utilization	5	

CTE 3763	Machine Evaluation	
	and Selection	5
CTE 4764	Industrial Apparel	
	Assembly and	
	Quality Control	5
CTE 4765	Apparel Production	
	Planning and	
	Costing	5
CTE 4723	Fashion Design	
	Seminar 1	5
CTE 4724	Fashion Design	
	Seminar II	5
ET1 4613	Methods Analysis	5
ETI 4681	Industrial	
	Supervision	5
Career Trainee	ship	
CTE 4880	Apparel Field	
	Experience	10

### Fashion Merchandising Management

The Fashion Merchandising specialization is designed for students seeking management careers in the fashion industry in buying, coordination, advertising, customer relations, operations, visual merchandising, manufacturing and merchandise management.

U	Ouart	er H	ours
Core Courses:			26
	Orientation	1	
COA 3410	Consumer Resources	5	
CTE 3312	Clothing and the		
	Consumer	5	
CTE 3401	Consumer Textiles	5	
CTE 3602	Fashion and Culture	5	
HME 3210	Personal and Career		
	Management	5	
Specialization:			27
COC 3300	Introduction to		
	Computers and		
	Computer		
	Applications	5	
CTE 3761	Fashion Production		
	and Distribution	5	
CTE 3852	Visual		
	Merchandising	5	
CTE 4821	Quantitative		
	Decisions in Fashion		
	Retailing	5	
CTE 4827	Fashion Buying and		
	Merchandising		
	Strategy	5	
CTE 4890	Fashion		
	Merchandising		
	Career Seminar	2	
Related Busines	ss Courses:		
MAR 3023	Marketing		
	Management	5	
MAR 4153	Retail Management 1	5	



### **Clothing and Textiles**

10

Students interested in working in fabric retailing as pattern company representatives or clothing construction instructors for business, or in specialized areas such as custom dressmaking and tailoring, would choose this area of specialization. Students holding an A.S. or A.A. degree in Fashion Design may desire to major in this program.

	- Qı	arter Hours
Core Courses:		28
	Orientation	1
CHD 3220	Child Development	:
	Infancy and Early	
	Childhood	5
COA 3410	Consumer Resourc	es 5
FAD 4230	Family Life Cycle	3
FOS 3004	Food and Consume	
HME 4210	Personal and Caree	r
	Management	5
HHD 4420	Home Furnishings	
	and Equipment	5
Specialization:		49
CHM 3030	Survey of General	
	Chemistry and Lab	7
CHM 3200	Survey of Organic	
	Chemistry and Lab	7
CTE 3310	Basic Clothing	
	Construction	5
CTE 3401	Consumer Textiles	5
CTE 3602	Fashion and Cultur	
CTE 3761	Fashion Production	
0120701	and Distribution	5
CTE 4340	Advanced Clothing	
	Construction	5
CTE 4352	Tailoring	5
CTE 4741	Pattern Alterations	5
Advised Elective		5
Career Trainees	hip	
CTE 4880	Apparel Field	
	Experience	10
	•	
		(Continued)

### School of Technology

## Home Economics /

### Management and Consumer Affairs

This specialization is planned to lead to an academic certificate from the Institute of Consumer Affairs as well as a B.S. from the School of Technology. It is intended to lead to careers as consumer consultants, counselors or representatives in business or governmental agencies. A separate track is available for students desiring to work with special groups such as the elderly or the handicapped.

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	Quar	ter H	
Core Courses:			33
	Orientation	. 1	
CHD 3220	Child Development:		
	Infancy and Early		
	Childhood	5	
CTE 3312	Clothing and the		
	Consumer	5	
CTE 3401	Consumer Textiles	5	
FAD 4230	Family Life Cycle	3	
FAD 4340	Family Dev:	5	
TAD 4540			
	Adulthood and	_	
Format	Aging	5	
FOS 3004	Food and the		
	Consumer	4	
HHD 3151	Housing: Shelter and		
	the Consumer	5	
HHD 4420	Home Furnishings		
	and Equipment	5	
Specialization:	* *		47
COA 3130	Personal and Family		
	Economics	5	
COA 3410	Consumer Resources	5	
COA 4440	Consumer	2	
COA 440	Counseling	5	
COA 4460	U	5	
CUA 4400	Consumer and	5	
001 5150	Technology	2	
COA 5450	Consumer		
	Legislation	5	
HME 4210	Personal and Career		
	Management	5	
PAD 3034	Public Policy and		
	Administration	5	
SOP 4645	Consumer		
	Psychology	5	
SOP 4649	Experimental		
	Consumer		
	Psychology	7	
MAN 3010	Organization and		
	Management	5	
Career Trainees		5	10
COA 4940	Career Traineeship		10
CUA 4740		10	
Flores	in Consumer Affairs	10	_
Elective			5

## Family and Child Development

Graduates from this program are prepared to enter professions which require a breadth of knowledge related to families and children, such as day care management, parent education. nursery school teaching, or employment in federal and state agencies serving the family.

	denti and sta	Ouar	ter H	
C	ore Courses:	£		25
		Orientation	1	
	COA 3410	Consumer Resources	5	
	CTE 3602	Fashion and Culture	5	
	3602	Fashion and Culture	5	
	HME 3210	Personal and Career		
		Management	5	
	HHD 4420	Home Furnishings		
		and Equipment	5	
	HUN 4410	Nutrition Infancy		
		Thru Adolescence	4	
S	pecialization			41
	CHD 3220	Child Development:		
		Early Childhood	5	
	CHD 4230	Child Development:		
		Later Childhood	5	
	CHD 4830	Child Care Services	5	
	FAD 3232	Changing Roles in		
		Family Relations	3	
	FAD 3253	Parenting	5	
	FAD 4230	Family Life Cycle	3	
	FAD 4340	Family		
		Development:		
		Adulthood and		
		Aging	5	
	FAD 4800	Management of		
		Human Care		
		Programs	5	
	FAD 4940	Human Development		
		Practicum	5	
A	dvised Elective	?S		15
C	areer Trainees	hip		10
	HOE 4940	1		
		in Home Economics	10	

### Food and Nutrition

This specialization provides professional preparation for a home economist who desires career opportunities related to food and nutrition but who does not desire to become a dietitian.

tian.	Ouar	ter Hour	5
Core Courses:	~	2	
	Orientation	1	
CHD 3220	Child Development:		
	Infancy and Early		
	Childhood	5	

COA 3410	Consumer Resources	5	
CTE 3312	Clothing and the		
	Consumer	5	
FAD 4230	Family Life Cycle	3	
HME 3210	Personal and Career		
	Management	5	
HHD 4420	Home Furnishings		
	and Equipment	5	
Specialization:			51
CHM 3030	Survey of General		
	Chemistry and Lab	7	
CHM 3200	Survey of Organic		
	Chemistry and Lab	7	
Food and Nu	utrition Courses	37	
Career Trainees	ship		10
HOE 4940	Career Traineeship		
	in Home Economics	10	

### **General Home Economics**

This specialization is for those students who desire to become Home Economists but have no definite career goals related to one area of the field and do not plan to teach in the secondary schools.

	Quarter Hours
Specialization:	76
Orientation	1
Clothing and Textiles courses	15
Family and Child Developmer	nt
courses	15
Food and Nutrition courses	15
Housing courses	15
Consumer Management course	es 15
Advised Electives	15

### **Course Descriptions**

### CLOTHING AND TEXTILES Definition of Prefix

CTE-Clothing and Textiles

CTE 3310L Basic Clothing Construction (5) Basic course, developing skills in wardrobe planning, clothing pattern and fabric selection, machine usage, and construction techniques, including their application in construction of apparel for personal use.

CTE 3312L Clothing and the Consumer (5) Consumer decisions related to the selection of fabrics, patterns, and ready-to-wear, with emphasis on quality and individual suitability, will be stressed. Includes construction of a simple garment, intended for Fashion Merchandising students and non-majors.

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## **Home Economics**

### CTE 3401L Consumer Textiles

Study of the physical properties of textile fibers, yarns, fabrics, color applications, and finishes, as they relate to care, performance, and consumer satisfaction. Identification and analysis of fibers and fabrics will be emphasized.

CTE 3602 Fashion and Culture (5) Study of historical, social-psychological, and ethnic influences in fashion design. Includes analysis of current fashion influences.

#### CTE 3735L Advanced Fashion Illustration

A continuation of fashion illustration techniques providing advanced work in rendering fabric drapery characteristics, construction details, color and texture. Prerequisite: One course in fashion illustration.

#### CTE 3742L Pattern Analysis and Grading

The theory, geometric principles, and the methods of pattern making for apparel and allied products. The student develops complete sets of industrial patterns, including grading in accordance with accepted size ranges and specifications.

### CTE 3761 Fashion Production and Distribution

Study of apparel industries, with supervised observation of various aspects of production and distribution.

### CTE 3762L Cutting Analysis and Material

Utilization (5) Principles and methods of cutting raw materials used in apparel products, including fabric inspection, scaling, marking, spreading, cutting, costing, and quality control. Principles of miniature marking and material utilization are also presented

### CTE 3763L Machine Evaluation and Selection

Study of thread, needles, stitch and seam formation as it relates to apparel products. Presents a survey of industrial sewing and pressing equipment and attachments. Cost considerations and payback periods are also examined.

CTE 3852L Visual Merchandising (5) Study and application of the principles and techniques of creative "in store" and window displays. Field work included.

#### CTE 4340L Advanced Clothing Construction

Additional experience in handling special fabrics, pattern and garment fitting; and application of principles and techniques of clothing construction. Prerequisite: CTE 3310, or equivalent.

### CTE 4352L/5354L Tailoring

Application of custom tailoring techniques through the construction of a suit or coat, with emphasis on fabric selection and pattern alteration. Graduate students will have additional requirements. Prerequisite: CTE 4340, or equivalent.

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CTE 4421L/5421L Creative Textiles (5) Laboratory class, in which students will explore techniques for designing and constructing textile fabrics. Experiences will include macrame, batik, tie-dying, weaving, knitting, and crocheting. Course is designed for Home Economics and Art Education majors. Graduate students will have additional requirements.

**CTE 4442L Textile and Apparel Testing (5)** Fundamentals of the testing methods normally found in the plant laboratory. Various tests are presented that measure performance of the fabric and the completed garment. Includes statistical analysis of test results. Prerequisite: CTE 3401 or equivalent.

### CTE 4723L/4724L Advanced Design

Seminar I and II (10) Provides an opportunity for apparel design majors to produce a line within given restrictions and industrial standards. A workroom atmosphere in which the designer creates and produces garments using draping and/or flat pattern methods. Prerequisite: A.S. degree in Fashion Design or equivalent.

**CTE 4741L/5741L Pattern Alterations** (5) Stresses importance of pattern selection for individual figure types, and pattern alteration for special fitting problems. Students will construct a garment, make sample pattern alterations for special fitting problems, and alter a ready-made garment. Graduate students will have additional requirements. Prerequisite: CTE 3310 or equivalent.

#### CTE 4764L Industrial Apparel Assembly and Ouality Control (5)

Analysis of the theory and methods of the assembly of apparel and allied products. Several apparel products are evaluated to determine construction sequence, machinery requirements, cost control, and quality specifications.

#### CTE 4765L Apparel Production Planning and Control

(5)

Integrates all phases of apparel production by planning the best production cycle for an apparel item from receipt of raw materials to finished product. Topics include pay systems, work-in-process control, production scheduling and costing techniques. Prerequisites for Apparel Manufacturing majors: ETI 4613 and CTE 4764.

### CTE 4821 Quantitative Decisions for Fashion Retailing

Review of basic retailing math, and application of financial management principles, with emphasis on relationships between sales volume, stock turnover, expenses and profits. Case studies used in analyzing past and present performance and establishing budgetary goals. Intended for students seeking opportunities in retail apparel organizations.

### CTE 4827 Fashion Buying and Mechandising Strategies (5)

Study and application of major considerations involved in buying and marketing of fashion merchandise. Includes creation and preparation of merchandise assortment plans, with emphasis on effective distribution.

**CTE 4880 Apparel Field Experience** (5-10) Supervised "on-the-job" training and periodic seminars. Consent of faculty instructor required.

### CTE 4890 Fashion Merchandising Career

Seminar (2) Exploration of local fashion-related career opportunities and proficiencies required for these positions. Guest speakers utilized.

**CTE 4905/5905 Independent Study** (1-5) Specialized intensive study of a topic not otherwise offered in the University. Consent of faculty supervisor and department chairperson is required.

CTE 4930 Special Topics (1-5) For groups of students who wish an intensive study of topics not otherwise offered in the University. Consent of faculty supervisor and department chairperson is required.

### CTE 5345 New Trends in Clothing Construction

Construction (5) A study of the latest techniques for sewing today's fabrics, including some factory methods. Prerequisite: CTE 4340 or equivalent.

### CTE 5355L Tailoring Menswear (5)

Application of tailoring techniques commercially used in the production of menswear, through the construction of a knit jacket and trousers. Prerequisite: CTE 4340, or equivalent.

CTE 5422L Today's Textiles (5) Exploration into recent developments in textile fibers and fabrics. Laboratory exercises in textile-testing procedures.

(5)

### CTE 5746L Pattern Design

Principles of pattern fitting will be explored, through the construction of basic sloper. Samples of various pattern design techniques will be constructed. Students will design and construct at least one garment. Prerequisite: CTE 4741, or CTE 4340 (Continued)

## **Home Economics**

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### CTE 5930 Textiles and Clothing Seminar

By permission of instructor only.

### FAMILY LAND CHILD DEVELOPMENT Definition of Prefixes

CHD-Child Development; FAD-Family Development

### CHD 3220 Child Development: Infancy and Early Childhood (5)

Systematic study of total developmental process in the child from conception through early childhood emphasizing the effects of home and family environment. Includes observational experiences. Prerequisite: DEP 3001, or equivalent.

#### CHD 4230 Child Development: Later Childhood

Extension of the study of developmental patterns of children, with emphasis on physical, intellectual, social and emotional maturation through adolescence. Analysis of environmental and home influences.

CHD 4830/5830 Child Care Services (5) Analysis of methods for meeting the needs of parents and children using child care facilities. Emphasis on nurturing interaction with children, effective utilization of equipment, materials and community resources, and parent education. Observation/participation experiences provided. Graduate students will have additional requirements.

#### CHD 5264 Advanced Studies in Child Development

Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Pre-requisites: CHD 3220, CHD 4320, or equivalent.

### FAD 3232 Changing Roles in Family Relationships

Emphasizes attitudes, feelings, communication, life styles in varying interpersonal relationships. Includes human sexuality component.

### FAD 3253 Parenting

An overview of changing concepts of parenthood and childhood. Explores contemporary issues concerning parenting with emphasis on maximizing human potential of parents and children. Open to non-majors. Recommended prerequisite: DEP 3001.

FAD 4230 The Family Life Cycle (3) Study of the characteristics, problems, potentials and adjustments unique to the various stages of the family life cycle, including ethnic and cultural influences on family life patterns.

### FAD 4340 Family Development: Adulthood and Aging (5)

Extension of the study of developmental patterns with emphasis on physical, intellectual, social and emotional influences with particular emphasis on the family and/or family substitute.

### FAD 4800 Management of Human Care Programs

Organization, management and administration of programs providing care services traditionally met within the family such as child care and day care for the elderly. Emphasis on use of family members and community resources for program enrichment.

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### FAD 4905/5905 Independent Study in

Family Development (1-5) Individually selected program of supervised study in a specific area of Family Development.

FAD 4930 Special Topics (1-5) For groups of students who wish an intensive study of topics not otherwise offered. Consent of faculty supervisor and department chairperson is required.

### FAD 4940 Human Development Practicum (3-5)

Experience in observing and working with individuals, in one or more phases of the human life cycle. Students may select a day care center, public school, nursing home, hospital or other community service agency. Prerequisites: CHD 3220, 4230, FAD 4230, or equivalent.

### FAD 5255 Parent-Child Interaction in

Varying Environments (5) The effects of varying environments on members of households, interpersonal relationships, family values, life style, and interaction between members.

### FAD 5260 Family Development (5) The dynamics of family interaction and struc-

ture, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit.

### FAD 5450 Workshop in Family and Child

Development (1-5) Short-term intensive study of special facets, issues and trends of Child Development and/or Family Development.

### GENERAL HOME ECONOMICS

Definition of Prefix: HOE-Home Economics: General

### HOE 3949 Cooperative Education in Home Economics (5-10)

Supervised full time work quarter for Home Economics students. Limited to students admitted to the Co-op Program with consent of advisor. Evaluation and report required.

### HOE 4930 Special Topics (1-5)

For groups of students who wish an intensive study of topics not otherwise offered. Consent of faculty supervisor and department chairperson is required.

### HOE 4940 Career Traineeship in Home Economics (5-10)

Community based, supervised practical experience in a home economics-related career, to provide opportunity for career exploration in chosen field, and application of knowledge to practical situations. Permission of instructor required.

### MANAGEMENT AND CONSUMER AFFAIRS

### **Definition of Prefixes**

COA-Consumer Affairs; HME-Home Management & Equipment; HHD-Housing & Home Design.

### COA 3130 Personal and Family Economics

Examination of factors related to achieving personal and family goals through systematic financial planning. Overview of management by objectives, credit, insurance, investment, homeownership, and taxation, with opportunities for personal and family application.

### COA 3410 Consumer Resources (5)

Evaluation of information needed to make effective consumer choices. Includes sources of consumer help and protection, pertinent legislation, and ecological conditions with which consumer interacts. Experiences provided in product and service comparison.

COA 4440 Consumer Counseling (5) Application of consumer and management knowledge and skills to helping individuals and families make financial decisions. Case study approach used. For those who anticipate careers in helping professions involving consumer and credit services. Prerequisites: COA 3410, HME 4210, and permission of instructor.

COA 4460 Consumer and Technology (5) Study of the interrelationship of the consumer and the industrial/business community, including the roles and responsibilities of each. Special topics include the effect of decisions on product cost, life styles and the environment, as well as the role of government in the marketplace.

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## / Apparel Manufacturing Management

### COA 4940 Career Traineeship in Consumer Affairs (5-10)

Community based, supervised practical experience in consumer-related career to provide exploration and application opportunities. Permission of instructor required.

COA 5450 Consumer Legislation (5) Designed to provide those presently working in the consumer field, or preparing for a career related to consumer affairs, with current information on legislation affecting the consumer. Utilizes professionals in the community.

#### HHD 4420 Home Furnishings and Equipment

Principles involved in the construction, selection, operation, and care of furnishings and equipment and their relationship to their environmental use. Prerequisite: IND 3020, or equivalent.

### HME 3210 Personal and Career Management

Application of management principles to personal and family living, as well as career effectiveness. Emphasis on planning and organizational skills as assets in the business world as well as tools with which to promote personal and family satisfaction. Open to nonmajors.

### HME 3230 Management of Personal and Family Resources (5)

Application of management principles to personal and family decisions including human and non-human resources, including finances. Opportunity for community observation of management decisions made by persons of various ethnic groups and/or life styles and an analysis of the effect of these decisions on family relationships and personal success.

HME 4905/5905 Independent Study (1-5) Individually selected program of supervised study in a specific area of home management or family economics. Prerequisite: Permission of instructor.

### HME 4940 Career Traineeship in Management

Community based, supervised practical experience in observing and providing helping experience to persons with special management problems such as the elderly, the handicapped and/or those with limited resources. Prerequisites: COA 3130, COA 3410, HME 4230, or equivalent.

#### HME 5225 Problems of Home Management in Contemporary Society (5)

Influence of diversified cultural impact on management life styles, with emphasis on problems of management of resources. Discussion of problems related to one parent homes, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 3410, HME 4230, or instructor's approval.

### HME 5250/EEX 5771 Independent Living for the Handicapped (5)

Explores the special home and personal living skills required in order for persons with mental and physical limitations to achieve their maximum independence. Suitable for students in psyco-educational services, health, physical education and recreation, social work, home economics or anyone planning to work with the elderly or handicapped. Approved for certification for teachers of the mentally retarded.

HME 5450 Workshop in Home Management

and Family Economics (1-5) Short term study of special facets, issues nd trends of home management and family economics.

### Apparel Manufacturing Management Certificate Program

Director: Adele Smith (Home Economics) Coordinating Committee:

Gabriel Aurioles (Industrial Systems), and Betty Morrow (Home Economics).

LOCATION: Tamiami Campus only

The University does not presently offer an undergraduate degree in Apparel Management, but does provide a Professional Certificate acknowledging that students have developed manufacturing management competencies specifically related to the apparel industry. This certificate is primarily designed to meet the needs of those presently employed in the apparel industry who desire the management skills necessary for career effectiveness and mobility. The courses are planned and taught under the guidance of an advisory committee of local leaders in the apparel industry.

A Certificate in Apparel Manufacturing Management will be awarded upon satisfactory completion of thirty credits as listed in the Certificate requirements. These courses may be taken by Special Students with the advice of the Certificate Program Director. Students should complete an application form at the time of their first course registration.

### **Course Descriptions**

**Definition of Prefixes** 

CTE-Clothing and Textiles; ETI-Engineering Technology: Industrial

Required Courses:

*Remarks:* It is recommended that the courses be completed in the order listed.

### CTE 3742L Pattern and Grading Analysis (5)

The theory, geometric principles, and methods of pattern making for apparel and allied products. The student develops complete sets of industrial patterns, including grading in accordance with accepted size ranges and specifications.

### CTE 3762L Cutting Analysis and Material Utilization (5)

Principles and methods of cutting raw materials used in apparel products, including fabric inspection, scaling, marking, spreading, cutting, costing, and quality control. Principles of miniature marking and material utilization are also presented.

### CTE 3763L Machine Evaluation and Selection

Study of thread, needles, stitch and seam formation as it relates to apparel products. Presents a survey of industrial sewing and pressing equipment and attachments. Cost considerations and payback periods are also examined.

### ETI 4613 Methods Analysis (5)

Methods engineering and measurement of human work systems. Techniques for operation analysis, work measurement, and work sampling. Predetermined motion-time systems and standard data development are explored.

### CTE 4764 Industrial Apparel Assembly and Quality Control (5)

Analysis of the theory and methods of the assembly of apparel and allied products. Several apparel products are evaluated to determine construction sequence, machinery requirements, cost control, and quality specifications.

### CTE 4765 Apparel Production Planning and Costing (5)

Integrates all phases of apparel production by planning the best production cycle for an apparel item from receipt of raw materials to finished product. Topics include pay systems, work-in-process control, production scheduling and costing techniques. Prerequisites for Apparel Manufacturing majors: ETI 4603 and CTE 4764.

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### School of Technology

## **Industrial Systems**

### **Industrial Systems** Department

Gabriel G. Aurioles, Associate Professor and Chairperson

Syhil de Groot, Associate Professor Jesse R. Fairbanks, Associate Professor Donald F. Wallace, Associate Professor Evodio Llevada, Assistant Professor Neil M. Hout-Cooper, Assistant Professor Katherine E. West, Assistant Professor John Remington, Assistant Professor Margaret G. Wilson, Assistant Professor Andrew R. Banks, Instructor

### Industrial Technology

The individual who wishes to acquire a technical supervision and management background which emphasizes industrial operations will be served by the Industrial Technology major. Each Industrial Technology major is enrolled as a department major and receives an individual program of study. By careful planning, and the application of courses available in the School and elsewhere in the University, it is possible to provide for specialization which responds to the needs of a wide variety of industrial and commercial enterprises.

Industrial Technology is defined as a profession in which an understanding of the technical terminology of industry provides a capability of performing technical liaison between management, engineer, scientist, technician, craftsman and customer. The work of the industrial technologist has some characteristics of Engineering Technology and many of the qualities associated with management.

The objectives of the department are: to develop an understanding of the technical aspects of industry; to become familiar with terminology used in industry and business; to develop supervisory skills involving specialized knowledge, analytical ability and management tools: to develop leadership skills; to effect individual judgment and initiative; to establish effective communications with scientists, managers, engineers, customers and workers.

LOCATION: Tamiami Campus only

DEGREE: Bachelor of Science or Bachelor of Technology

### LOWER DIVISION PREPARATION:

Students must have completed a community college associate's program or attained junior standing at a four-year college. Lower-division courses should be selected in the field for which upper-division specialization is desired. In general, the individual's upper-division program is structured to complement lower-division preparation rather than supplement it. For example,

the preparation listed below, or equivalent, is expected for typical upper-division Industrial Systems programs of study:

Preparation

Industrial

Business

Aviation

Technology

Technology

Management

Aviation (Pilot)

Pre-Engineering

Technology

Pre-Engineering

Industrial Arts

Engineering

Air Traffic Control

Administration

Typical Upper-Level Typical Lower-Division Specialization Industrial Operations Engineering

Aviation Food Technology Industrial Systems Industrial Safety

Labor Relations Production and Manufacturing

A major characteristic of the Industrial Systems Department is individual evaluation and curriculum planning. Consequently, prospective students are urged to consult an advisor to discuss their objectives and academic preparation.

Major Requirements and

Electives

90 (Minimum)

**Ouarter** Hours

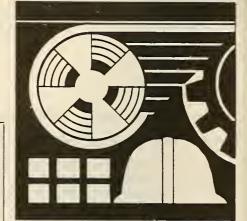
The student must complete a planned individual program of study, including a coherent specialization, which is approved by an advisor and the School of Technology. The program must satisfy the objectives of the Industrial Systems Department, the career objectives of the study, and the general requirements for a bachelor's degree from the School of Technology.

To receive a B.S. degree, as opposed to a B.T., the student must have completed in his four year program at least one upper division course in each of the following areas: Higher Mathematics. Computer Science, Personnel Administration, and Engineering Economy. According to the specialization, other core courses are required.

### **Professional Certificate** Programs

### **Industrial Safety**

The objective of the Professional Certificate Program in Industrial Safety is to present an integrated learning experience that will provide the student with a minimum level of expertise in the specialized area of Occupational Safety.



Particular emphasis will be placed on application, interpretation and administration of the Federal Occupational Safety and Health Act and other regulations in an industrial setting. The program is intended to provide skills which will be directly applied in industry.

The Certificate will be awarded to any student who successfully completes the following 30-credit program, or equivalent:

o eredit program, or equivalent.			
ETI 3700	Safety in Industry	5	
BCN 3730	Construction Safety	5	
ETI 4708	Health Hazards in		
	Industry	5	
HES 4432	Safety Management	5	
ETI 4632	Personnel Relations	5	
ETI 4681	Industrial		
	Supervision	5	

### Industrial and Labor Relations

The objective of the Professional Certificate Program in Industrial and Labor Relations is to provide students desiring to pursue professional work in the fields of industrial and labor relations and labor studies with a flexible course of study. The program has been designed to provide options to both baccalaureate degree seeking students and pre and post baccalaureate students in the fields of labor studies, industrial personnel operations, collective bargaining and labor-management relations.

The Certificate will be awarded to any student who successfully completes the following program of 20 required and 10 elective credits, or their equivalent.

	ETI 4633	Introduction to	
		Labor Studies	5
	BCN 4741	Industrial and Labo	г
		Relations Law	5
	ETI 4632	Personnel Relations	5
	ETI 4905	Independent Study	
		(Field Project)	5
E	lective: (Any 2	)	
	ETI 4635	Administration of	
		Labor Organization	s 5
	ETI 4634	Labor and Industria	1
		Dispute Resolution	5
	ETI 3700	Safety in Industry	5
	ECP 4203	Labor Economics	5
	MAN 4410	Labor, Management	-
		and Collective	
		Bargaining	5
	SOC 5261	Industrial Sociology	5
			(Continued)

## **Industrial Systems**

### Food Technology

Director: G. Aurioles (Industrial Systems) Coordinating Committee: A. Kahn (Dietetics and Nutrition), L. Cuervo (Biological Sciences)

The food industry ranks first in Florida in terms of total employment and is always expanding to new products. The field of the food technologist is broad and covers the purchase of fresh product of good quality, provision of subsequent adequate storage, proper processing, packaging, distribution to commercial outlets, and insurance of suitable shelf-life so that the product reaches the consumer with the taste, color and texture of freshly prepared foods. Feeding a growing population is a main concern of all the developing countries and the demand for food technologists abroad gives an international dimension to the program offered at Florida International University.

The Certificate will be awarded to any student who successfully completes the following 30 credit hour program, or equivalent:

FOS 4041	Food Science	4
FOS 4411	Food Engineering	5
FOS 4421	Food Processing 1	5
FOS 4422	Food Processing II	5
HUN 3017	Nutrition for Food	
	Technologists	4
MCB 3000	Introductory	
	Microbiology	5
MCB 3000L	Introductory	
	Microbiology	
	Laboratory	2

### Production and Manufacturing

The objective of the Professional Certificate Program in Production and Manufacturing is to provide students desiring professional work in the field of Production and Manufacturing with a sequence of courses which will update those students already employed and will satisfy local industry's need for technologically skilled individuals in Production and Manufacturing. The Certificate includes a core of courses designed to give the student knowledge of processes, cost, planning and courtol in addition to electives in specialized subjects.

The Certificate will be awarded to any student who successfully completes the following program of 20 required credit hours and 10 elective credit hours, or equivalent, with a grade of "C" or better:

	<b>UI</b> .	
ETI 3411	Manufacturing	
	Processes	5
ETI 4671	Engineering	
	Economy	5

ET1 3645	Production Planning	
	and Control I	5
ET1 3646	Production Planning	
	and Control II	5
Electives: (Any	2)	
STA 4664	Statistical Quality	
	Control	5
ETI 3110	Quality Control	5
ETI 3444	Automation	5
ETI 3661	Plant Layout	5
ETI 4660	Materials Handling	5
ETI 4650	Industrial	
	Information Systems	5
ETI 4683	Human Factors	
	Engineering	5
ETI 4613	Methods Analysis	5

#### INDUSTRIAL SYSTEMS Definition of Prefixes

ARV-Arts: Vocational; BCN-Building Construction; ETC-Engineering Tech.: Civil; ETD -Engineering Tech.: Drafting; ETE-Engineering Tech.: Electrical; ETG-Engineering Tech.: General; ETI-Engineering Tech.: Industrial; ETM-Engineering Tech.: Mechanical; FOS-Food Sciences; HES-Health, Education & Safety; OTH-Occupational Therapy; STA-Statistics.

ARV 3210C Reprographics (5) Laboratory experiences in the theory and practice of communicating through graphics; includes experiences in copywriting, editing, image generation, image assembly, photo conversion, image carrier preparation, transfer, and finishing.

ARV 4150 Photographics (5) Laboratory experiences in the theory and practice of photography as used in visual communications. Develops proficiencies in camera work, developing, and printing.

ARV 4250 Planographic Processes (5) Laboratory experiences in the theory and practice of offset lithography. Emphasis will be directed toward skill development in design and copy preparation, process photography, stripping, platemaking, and duplicator operation.

**BCN 3702C** Construction Technology (5) Laboratory experiences of basic production, management and personnel practices as they relate to construction systems and projects.

BCN 3730 Construction Safety (5) Introduces occupational safety hazards associated with the construction industry. Emphasis placed on recognition, evaluation and control of safety hazards particularly as they relate to the Occupational Safety and Health Act.

#### BCN 4033L'Industrial Research and Development

Laboratory experiences in formulating, researching, designing, and developing prototypes of constructed and manufactured products and processes. Prerequisite: BCN 3702 or ETI 3417C.

BCN 4251C Architectural Drafting (5) Laboratory experiences in designing structures, developing working drawings and specifications for constructed projects. Includes development of site, foundation, floor, elevations, plumbing plans, and specifications.

ETC 4252L Construction Processes (5) Laboratory experiences in the principles and practices of the construction trades. Includes concrete and plaster trades, electrical, plumbing, carpentry, iron work, sheetmetal, roof and finishing trades in setting foundations, erecting structures, installing mechanical and electrical systems, applying surface material and finishing.

### ETD 4525C Drafting I

(5)

(5)

Laboratory experiences in the principles and practice of idea development and expression through free hand sketching and conventional instrument drafting. A beginning course for students with no prior drafting experience.

### ETC 4526C Drafting 11

(5)

Laboratory experiences in the principles and practices of product design and communication. Includes conventions, projections, and dimensions and problems of making drawings for product production. Prerequisite: ETD 4525C, or equivalent.

### ETE 4562 Electrical/Electronic Power Systems

(5)

Introductory course designed primarily for the novice in electricity/electronics. Laboratory experience consists of planned activities centered about electrical/electronic instrumentation and power systems.

ETG 3810 New Venture Formation (5) Introduction to the main issues facing the would-be businessman. Topics include operational, marketing, and financial needs of the new enterprise. Emphasis on matching student's capabilities with specific project. Open to all F.I.U. students.

#### ETG 3949 Cooperative Education Technology

Supervised full-time work quarter for technology cooperative education students. Limited to students admitted to the Co-op program with consent of advisor. Evaluation and reports required.

(5)

## **Industrial Systems**

### ETG 4811 Technological Entrepreneurship

(5)

A project oriented course designed specifically for those students or members of the community who wish to start a new business venture. Completion of the course requires an actual business start, spin-off or expansion of an existing one.

**ETG 4815 Inventions and Innovations** (5) Introduction to the innovation process. Specifically designed for students or members of the community interested in patenting and invention or developing an idea. Exploration and design are encouraged. Topics include patent application, licenses and business plans.

### **ETG 4949 Cooperative Education** Technology

(5) Supervised full-time work quarter for technology cooperative education students. Limited to students admitted to the Co-op program with consent of advisor. Evaluation and reports required.

ETI 3110 Quality Control (5) Modern concepts for managing the quality function of industry to maximize customer satisfaction at minimum quality cost. The economics of quality, process control, organization, quality improvement, and vendor quality.

ETI 3417C Manufacturing Technology (5)Laboratory experiences of basic manufacturing, management, personnel, and production practices as they relate to products and processes. Safety procedures.

**ETI 3444** Automation (5)A study of the technology of automation including the economics of management policies for the major industrial changes influencing automation planning.

ETI 3603 Industrial Operations (5) The industrial structure is studied to see how the various areas and functions are related to each other. The material covered should give the student an overview of the operations of the organization and an understanding of the fundamental principles of management which lead toward effective coordination and control.

### ETI 3645 Production Planning and Control I

Introduction to production planning and control concepts including their function within total planning, forecasting, estimating, processing instructions, and manpower allocations. Prerequisite: MAN 3504, or equivalent.

(5)

### ETI 3646 Production Planning and Control II

The functions of a production planning and control organization at work. Topics in the area of inventory control, scheduling, dispatching and flow control.

### ETI 3661 Plant Layout

To effect the coordination of the physical plant facilities to combine the men, materials and machines necessary for operation in the most economical arrangement.

ETI 3670 Industrial Financial Decisions (5) The accounting process and use of financial techniques and data in planning, controlling, and coordinating industrial activities. This course is intended to familiarize the student with accounting concepts, analytical methods, and use of accounting information for purposes of operation and control.

(5)

(5)

ETI 3682 Applied Synecology A systematized approach to the definition and solution of industrial problems resulting from human interactions. This course provides a uniform methodology for resolving one of a manager's most time consuming and frustrating tasks, resolution of people problems. No theory or explanation of human behavior is involved.

### ETI 3700 Safety in Industry

Introduces occupational safety and health hazards associated with mechanical systems, materials handling, electrical systems, and chemical processes. Illustrates controls through engineering revision, safeguarding and personal protective equipment. Emphasis placed on recognition, evaluation and control of occupational safety and health hazards.

(5)ETI 4421C Materials Processing Laboratory experiences in the principles and practices of separating, forming, and combining techniques to produce components, subassemblies, assemblies and finished products. Includes a variety of materials, equipment and fabrication techniques.

ETI 4452 Maintenance Planning (5)A study of the maintenance function in the industrial setting, including the planning and implementation of preventative maintenance techniques.

ETI 4613 Methods Analysis (5)Methods engineering and measurement of human work systems. Techniques for operation analysis, work measurement, and work sampling. Predetermined motion-time systems and standard data development are explored. Prerequisite: MAN 3504. Prerequisite or corequisite: Statistics.

(5)

(5)

(5)

### ETI 4613 Methods Analysis

Analysis and design of improved methods. Procedures to utilize resources optimally by time standardization, work measurement, flow and operation analysis, activity sampling, predetermined motion time systems, work simplification and job enrichment principles.

### ETI 4620 Value Analysis

How to increase the value of products or services by holding quality while reducing costs, holding costs while increasing quality, or both, with emphasis on material shortages. Specific steps of value analysis used to improve industrial problem solving.

### ETI 4632 Personnel Relations

A study of the functions of personnel relations. Topics covered include determining job requirements, manpower requirements, selection, interviewing and counseling, tests, training, morale and motivation, job evaluation, wage classification, merit rating, and union-management relations.

ETI 4633 Introduction to Labor Studies (5) History and development of the labor movement, with emphasis on union development as a response to industrialization and technological change. Includes the structure and functioning of modern unions, the development of modern technology, the industrial working class, and the impact of the rural-urban shift of labor.

### ETI 4634 Labor and Industrial Resolution

(5) Theory and practice of dispute resolution in industry arbitration processes, grievances, mediation, factfinding and conciliation. Arbitration of industrial claims and disputes, commercial arbitration. Prerequisite: ETI 4633, or equivalent.

### ETI 4635 Administration of Labor

(5)

Organizations Administration of labor organizations; labor policies and practices; legal requirements and financial administration of unions. Prerequisite: ETI 4633 or equivalent.

ETI 4650 Industrial Information Systems (5) Introduction to systems concepts. Planning design and implementation of information systems, decision-making with systems, and system organization.

ETI 4660 Materials Handling (5)

A survey of materials handling elements, the unit load, packaging, bulk handling, and the economics of materials handling. Improvement of

# **Medical Records Administration**

existing handling methods, justification for handling equipment, special handling techniques, and the management of the materials handling divisions in the industrial organization.

ETI 4671 Engineering Economy (5) The study of the economics of decision-making in business and industry. Includes an analysis of the concepts of break-even, least cost and the differences between alternatives when related to the time value of money. Budgeting, labor and cost control, relative to the industrial engineering technologist, is also considered.

ETI 4681 Industrial Supervision (5) Overview of the supervisor's functions, responsibility, and over-all role in management in industry.

**ETI 4683 Human Factors Engineering** (5) Examination of the ways to fit jobs and objects better to the nature and capacity of the human being. Lectures will review man's performance capability, singly and in groups, in interacting with his work environment. Stresses the practical application of human factors principles.

ETI 4690 Industrial Sales (5) Fundamentals of technical sales. Analysis of buyer's needs. Experiments, trial runs and demonstrations. The sale of machinery, raw materials and technical services. Credit and financing considerations. Measures of performance. Case studies.

ETI 4691 Women in Industry (5) Development of supervisory and technical skills for women in industrial operations. Practice in planning, organizing, decision-making, and employee direction, with particular emphasis on the woman as supervisor, manager or in the technical professions.

ETI 4708 Health Hazards in Industry (5) A continuation of Safety in Industry. An introduction to OSHA regulations on health hazards. Noise, radiation and dust problems in the industry. Special hazards with solvents, asbestos, lead, silica, and other chemicals. OSHA compliance procedures. Prerequisite: ETI 3700.

ETI 4905 Independent Study (1-5) Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

ETI 4930 Special Topics (5) For a group of students who wish intensive study of a topic not otherwise offered in the University. Consent of faculty supervisor and department chairperson required.

### ETM 4407L Mechanical Power Systems 1

Systems 1 (5) Laboratory experiences in the theory of operation and related maintenance of single and multiple cylinder reciprocating engines. Includes introductory experience with mechanical, fluid, and pneumatic power systems.

### ETM 4408L Mechanical Power

Systems II (5) Advanced laboratory experiences with reciprocating engines. Introductory study of turbine, diesel, and rotary engines. Introductory study of aircraft structures and basic aerodynamics. Prerequisite: ETM 4407, or equivalent.

ETM 4823C Materials of Industry (5) Laboratory experiences in the theory and practice of characteristics of materials of industry. Includes test and measurement of stress, strain, torsion, tensile strength, fatigue, and hardness of metals, wood, fabrics, ceramics and synthetics.

FOS 4411 Food Engineering (5) Engineering concepts applied to food processing. Material and energy balance. Basic unit operations used in food processing to include fluid flow, mass and heat transfer. Specific applications and problems.

FOS 4421C Food Processing 1 (5) Basic principles of food preservation from raw material to storage stability of finished products. Quality assurance and new product development.

FOS 4422C Food Processing 11 (5) Role of additives in food processing. Packaging materials. Principles of distribution and marketing. Plant site location. Field trips and case studies.

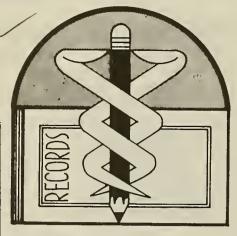
HES 4432 Safety Management (5) Basic concepts of safety management. Fundamentals of loss control, policies, accountability, measurement and appraisal of the safety function in industry. The technique of operations review. Systems safety. Motivation. Products Safety. Case studies. Prerequisites: BCN 3730 and ETI 4708, or equivalent.

### OTH 3123 Technology for Occupational Therapy

The basic properties of woods and metals and the techniques used by occupational therapists in planning a project based on a hypothetical patient's problem.

(5)

STA 4605 Applied Systems Research (5) Basic industrial research techniques, operational production problems, matrix applications, inventory control, network analysis. Prerequisites: STA 3161 (or equivalent), MAS 3103.



### Medical Records Administration Major

Florence C. Amato, R.R.A., Ph.D., Associate Professor and Director

Helen B. Glidden, R.R.A., M.A., Assistant Professar

The major in Medical Records Administration provides the student with management skills necessary for key members of the modern health care team, contributing to serving the health care needs of individuals and of the community. This is accomplished through development of patient information systems which enable patients to be cared for adequately, medicine to be taught, research to be conducted, epidemics to be controlled, drugs to be tested, and health care statistics to be compared. Specific skills include those needed for acquisition of complete medical data on each patient cared for by the medical team, for planning of systems for record retention and retrieval, and for management of those systems by the departmental staff.

The Program was approved by the AMA-AMRA in April, 1979, thus making graduates from the program eligible to take the National Registry to become Registered Record Administrators.

DEGREE: Bachelar of Science, in Medical Records Administration

Required Courses: Anatomy and Physiology including Laboratory, Chemistry and Microbiology.

*Remarks:* A person intending to enter the program must take Anatomy and Physiology prior to admission; Chemistry and Microbiology may be taken at FIU concurrently with other courses in the program.

UPPER DIVISION PROGRAM:

		Quarter Hours
Major Required	Courses:	48
MRE 3001	Medical	
	Terminology	2
MRE 3001L	Medical	
	Terminology,	
	Laboratory	1
MRE 3110	Medical Record	ls
	Administration	1 3

### School of Technology

# **Medical Records Administration**

MRE 3110L	Medical Records Administration I.		
	Laboratory	1	
MRE 3401	Fundamentals of	-	
	Medical Science	4	
MRE 3800	Directed Practice I	2	
MRE 3202C	Coding and		
	Indexing Procs	4	
MRE 3205	Medical Records		
	Administration II	3	
MRE 3205L	Medical Records		
	Administration II,		
	Laboratory	1	
MRE 3402	Fundamentals of		
	Medical Science II	4	
MRE 3403	Fundamentals of		
	Medical Science III	4	
MRE 3810	Directed Practice 11	2	
MRE 4410	Medical Records		
	Administration III	3	
MRE 4410L	Medical Records		
	Administration III.		
	Laboratory	1	
MRE 4831	Directed Practice III	1	
MRE 4312	Medical Records		
	Administration IV	3	
MRE 4312L	Medical Records		
	Administration IV,		
	Laboratory	1	
MRE 4830	Directed Practice IV	1	
MRE 4304	Problems in Medical		
	Records		
	Administration	2	
MRE 4835	Internship Medical		
	Records		
	Management	5	
Support Courses	5.7		42
MLS 4120: H	ICA 3120, 3501. 4203.		
	P 3172: CIS 3300: STA		
3013			
IATOT			90

### **Course Descriptions**

MRE 3001 Medical Terminology (2) Provides the student with basic medical language skills, including pronunciation, spelling, and definitions necessary for communication in the medical world.

#### MRE 3001L Medical Terminology Laboratory

Laboratory to accompany, HSC 3531. Comprebension in transcription of medical records, including history and physical reports. x-ray, operative, and pathology reports.

(1):

### MRE 3110 Medical Records Administration I (3)

Introduces the student to the historical development of medical record science. Role and function of the medical records administrator. Professional ethics. Flow of the medical record from patient admission to completion of the record after discharge. Numbering and filing systems. The medical record: content and format, value and standards for health care facilities.

### MRE 3110L Medical Records Administration I, Laboratory (1)

Laboratory to accompany MRE 3110. Competency: Setting up filing systems in health care facilities. Organization and analysis of traditional and problem-oriented medical records to meet standards of JCAH. AOA. Medicare and Medicaid.

#### MRE 3202C Coding and Indexing Procedures

Special registries: nomenclatures. coding and indexing: ICD-9-CM; Application of indices to research.

(4)

(4)

(4)

#### MRE 3205 Medical Records Administration II (3)

Presents an in-depth study of hospital statistics. Covers sources, definitions, collection, and reporting of data in the medical records department of health care facilities and legal administration.

#### MRE 3205L Medical Records Administration II, Laboratory (1)

Laboratory to accompany MRE 3205. Competency: Retrieval of medical data. Developing data collection systems. Completing reports and analyzing data for administrative uses and legal procedures.

#### MRE 3401 Fundamentals of Medical Science I

A systematic review of organ systems, arranged by medical specialties. Typical chart data will be included, with representative information characteristic of history and physical examination, laboratory, x-ray data, and nursing notes. Specialties covered are internal medicine, pediatrics, obstetrics and gynecology.

### MRE 3402 Fundamentals of Medical

Science II (4) A systematic review of organ systems, arranged by medical specialties. Typical chart data will be included, with representative information characteristics of history and physical examination, laboratory, x-ray data, and nursing notes. Specialties covered are general surgery, neurosurgery, nurology, and orthopedics.

#### MRE 3403 Fundamentals of Medical Science III

A systematic review of organ systems, arranged by medical specialties. Typical chart data will be included, with representative information characteristic of history and physical examination, laboratory, x-ray data, and nursing notes. Specialities covered are endocrinology, otorhinolaryngology, opthalmology, oncology, genetics and anesthesiology.

### MRE 3800 Directed Practice I (2)

Orientation of the student to the hospital medical records department and adjunct diagnostic or therapeutic units, including the outpatient department, emergency room, admitting office, x-ray, pharmacy, physical therapy, laboratory, and pathology department.

MRE 3810 Directed Practice II (2) Orientation of the student to medical records department functions. Rotation of the student through technical functions of the department, following the flow of the patient's record after discharge. Includes the discharge procedure; analysis, coding and indexing systems: statistical reporting: correspondence; control of the incomplete medical record: and processing of the completed record.

#### MRE 4410 Medical Records Administration III (3)

Medical care evaluation, including organizational structures, methods and procedures in compliance with the Joint Commission on Accreditation of Hospitals, AOA, Medicare and PSRO.

#### MRE 4410L Medical Records Administration III. Laboratory (1)

Competency: Abstracting of medical data to meet criteria. Analyzing criteria. Setting up utilization plans and procedures. Medical research design.

#### MRE 4304 Problems in Medical Records Administration (2)

Through illustrative case reports, group discussions, role playing, oral reports, lectures, buzz sessions, and review of the literature, students explore effective methods for identifying and arriving at satisfactory solutions to specific types of problems they may expect to encounter in the administration of medical record services.

### MRE 4312 Medical Records Administration IV (3)

Management of a medical records system in any type of health care facility, including hospital and ancillary records, nursing care facilities, clinics and HMO: planning, organizing, controlling and actuating.

## Medical Technology 6

### MRE 4312L Medical Records Administration IV, Laboratory (1)

Competency: Experience in planning physical layouts, purchase of equipment, writing of proposals, and cost justifications. Development and analysis of policies, procedures, and work flow. Evaluation of budgets. Development of job descriptions and use of personnel evaluation techniques.

MRE 4830 Directed Practice IV (1) Observation of the management of a hospital medical records department, with emphasis on administrative and medical staff relationships, including policy and procedure manuals, job descriptions and evaluation, budgeting and cost controls, and medical staff committees.

MRE 4831 Directed Practice III (1) Orientation of the student to medical recordkeeping, filing and retrieval systems of neighborhood clinics, nursing care facilities, and specialized institutions including psychiatric and rehabilative facilities. The last five weeks of this directed practice centers on utilization review procedures for hospitals and nursing care facilities.

#### MRE 4835 Internship in Medical Records Management (5)

Management in a medical records department for five weeks, under the supervision of a Registered Record Administrator.

### **Medical Technology**

Margaret Waid, Professor and Chairperson Sylvia L. Smith, Associate Professor Janet L. Zins, Associate Professor Frank A. Seedarnee, Assistant Professor Joyce T. Robinson, Assistant Professor

The program offered by the Department provides opportunities for the student to learn the scientific principles which are basic to the development, performance, evaluation, and control of laboratory tests by the medical technologist in health evaluations and patient management.

The program is approved by the National Accrediting Agency of Clinical Laboratory Sciences, the American Medical Association, and the American Society of Clinical Pathologists. A graduate of the program is eligible to apply for examination and certification by the Registry of Medical Technologists as a M.T. (A.S.C.P.), and for licensure as a Technologist by the state of Florida. LOCATION: Tamiami Campus only.

DEGREE: Bachelor of Science in Medical Technology

### LOWER DIVISION PREPARATION:

The student seeking admission to the program should have: (1) completed 90 quarter hours (60 semester hours) in an accredited two or four year institution; (2) completed all of the general education requirements; (3) earned a cumulative grade point average of 2.5 (on a scale of 4.0); (4) received a minimum of a "C" grade in each required science course; and (5) completed the following preparatory courses: two semesters of biology with laboratory, two to three semesters of general chemistry with laboratory, two semesters of organic chemistry with laboratory, two semesters of physics with laboratory, and two semesters of pre-calculus mathematics (college algebra and trigonometry). (Survey courses in science and mathematics are not accepted.)

### UPPER DIVISION PROGRAM:

The following courses must be completed prior to completion of the medical technology program, and may either precede, or be taken concurrently, with specific phases of the program: general microbiology including laboratory, quantitative analysis including laboratory; immunology; biochemistry (laboratory is elective).

Alternate laboratory experience or proficiency testing may be arranged on an individual basis for: (i) graduates of NAACLS-approved MLT programs; (ii) students certified as MLT (ASCP); (iii) students who have had experience in a clinical laboratory; (iv) students who have had military laboratory training.

The medical technology lectures and hospital practicum are required of all students who complete the program.

The program is capped at thirty students. One class of students is admitted each year to begin the program in the fall quarter. Applications for admission to the program and all University applications must be received by the program and the Office of Admissions respectively by February 15th, to be considered for the fall quarter. Candidates for admission will be interviewed by the faculty. The medical technology required courses and hospital practicum are open only to majors in the program, and must be taken in the appropriate sequence. Each co-requisite and pre-requisite for the subsequent related course must be completed with a satisfactory grade before the following related course may be attempted. A minimum grade point average of 2.5 (in two sequential quarters) must be maintained in order for the student to be permitted to remain in the program. Entrance to the senior practicum depends upon



satisfactory evaluation of the student's record by the program faculty.

Medical technology community service courses are taught for the continuing education of community clinical laboratory personnel. *Quarter Hours* 

		Quarter Hours
Required Course	25:	81-86
	Junior Year	
Fall Quarter		14(13)
MLS 4306	Clinical	
1.120 1900	Hematology	2
MICADOG		2
MLS 4306L	Clinical	
	Hematology	
	Laboratory	3
or		
MLS 4307L	Directed Study	in
	Hematology	2
MLS 4110	Hematology	2
1411.5 4110	Genaldiogy	
1000 0000	Correlations	2
MCB 3013	General	
	Microbiology	
	Lectures and	
	Laboratory	7
Winter Quarter		16(15)
MLS 4405	Clinical	10(13)
WIL3 4403		
	Microbiology	2
MLS 4405L	Clinical	
	Microbiology	
	Laboratory	3
or		
MLS 4406L	Directed Study i	n
THE TROPE	Clinical	<b>1</b> 1
		2
	Microbiology	2
MLS 4120	Microbiology	
	Correlations	2
PCB 3233	Immunology	5
MLS 4320C	Advanced	
	Hematology	3
Spring Quarter		15(14)
MLS 4535	Blood Barking	15(14)
WIL3 4555	Blood Banking	•
	and Serology	2
MLS 4535L	Blood Banking	
	and Serology	
	Laboratory	3
or		
MLS 4536L	Directed Study in	<b>n</b>
	Blood Banking	.1
		2
MI 8 4120	(for M.L.T.)	2
MLS 4130	Clinical	
	Correlations in	
	Blood Banking	2
MLS 3430	Medical	
	Parasitology	2
	- 05	(Continue I)
		11 optimus 11

### School of Technology

## **Medical Technology**

	MLS 3430L	Medical Demoiteleur Lab	T	
	CHM 3120	Parasitology Lab. Quantitative	I	
		Analysis (lecture		
		and laboratory)	7	
	Summer Quarter			
	BCH 3033	Biochemistry		
		(lecture only		
		required)	5	
		Senior Year		
	Fall Quarter			16(14)
	MLS 4625	Clinical Chemistry		
		Methods	4	
	MLS 4625L	Clinical Chemistry		
		Laboratory	4	
	or			
	MLS 4626L	Directed Study in		
		Clinical Chemistry	2	
	MLS 4140	Clinical		
		Correlations in		
		Chemistry	2	
	MLS 4460C	Advanced		
		Microbiology	5	
	MLS 5934	Seminar 1	1	
	Winter Quarter			12
	MLS 4820L	Practicum 1	6	
	MLS 4530C	Advanced Blood	~	
	100 00000	Banking	3	
	MLS 4755C	Laboratory		
		Statistics and	-	
	MI C 2022	Quality Control Seminar II	2	
,	MLS 5935	Seminar II	1	14
•	Spring Quarter MLS 4821L	Practicum II	6	14
	MLS 4630C	Advanced Clinical	0	
	ML3 4030C	Chemistry	5	
	MLS 4700	Medical	5	
	11120 4700	Laboratory		
		Management	2	
	MLS 5936	Seminar III	ĩ	
		Seminar III	1	

### **Course Descriptions**

**Definition of Prefixes** 

MLS-Medical Laboratory Science

MLS 3420L Medical Mycology (2)(F,SS)Study of the essential procedures and criteria in the identification of pathogenic fungi. Recognition of fungal contaminants commonly encountered in clinical specimens. Actinomycetes. Antimycotic agents. Mycoserology. Stains, reagents and media.

MLS 3430 Medical Parasitology (2)(S)Classification. morphology and life cycles of medically significant parasites. Emphasis is on microscopic identification, specimen preservation. and infection control.

MLS 3430L	Medical	Parasitology	
	Laborate	)ry	(1)(S
Laboratory to	o accomp	any MLS 3430.	

#### MLS 3700 Management Procedures for Laboratory Employees (2)(SS)

Job descriptions, salary schedules, equipment and reagent purchasing, quality assurance programs, work-load recording methods. Individualized projects adapted to meet the needs of facility where student is employed. Prerequisite: one year of clinical laboratory experience.

### MLS 3750 Laboratory Quality Control, Safety, and Instrument

(5)(S)Maintenance Course designed for the working technologist who wishes to protect himself, his co-workers. and others in his environment from the hazards inherent in laboratory operations, and who wishes to present better evidence of compliance with the various inspection and accreditation organizations which now inspect laboratories. Prerequisite: one year of clinical laboratory experience.

MLS 4110 Hematology Correlations (2)(F)Present diseases associated with abnormal findings in laboratory tests performed in hematology, coagulation. urinalysis, and clinical microscopy. Assist in correlating two or more laboratory procedures which might reinforce the likelihood of specific diseases being identified by laboratory methods.

MLS 4120 Microbiology Correlations (2)(W) Medical aspects of infections caused by bacterial, viral, rickettsial, and mycotic pathogens. In vivo and in vitro actions of antimicrobials. Hospital infection control.

#### MLS 4130 Blood Bank and Serology

Correlations (2)(S)Laboratory identification of venereal diseases. Blood Bank regulations in protection of donor and recipient. Blood component therapy selection for specific conditions. Problems of the patient immunized through transfusion therapy.

#### MLS 4140C Clinical Chemistry Correlations (2)(F)

Biochemical tests used in diagnosis and treatment of metabolic disorders. Carbohydrate and protein metabolism, acid-base balance, enzymes, testing for organ function.

#### MLS 4150 Selected Topics in Clinical

(2)(VAR) Correlations Current topics in Clinical Correlations of particular significance. Review of literature and discussion of the selected topics. Prerequisite: Permission of the instructor.

MLS 4160L Individualized Study in Clinical Correlations (2-5)(F,W.S,SS)Introduction to problems in Clinical Correlations requiring research or independent study. Special work, lecture and/or laboratory as determined by advisor in accord with student's individual interest. Review of literature.

Participation in seminars. Prerequisite: Permission of instructor.

MLS 4190 Diagnostic Histology (2)(F)Control slides; special stains; preparation of tissues for EM; identification of significant tissue features for preparation of surgical slides. For experienced histotechnologists.

MLS 4306C Clinical Hematology (2)(F)Technical problems involving Hematology, Coagulation, Urinalysis, and Clinical Microscopy. Microscopic identification of normal and abnormal findings. Pitfalls and problems.

#### MLS 4306L Clinical Hematology Laboratory (3)(F)

Laboratory to accompany MLS-4306.

### MLS 4307L Directed Study in

Hematology

Selected laboratory techniques to accompany MLS-4306. For M.L.T.'s.

(2)(F)

(2)(VAR)

MLS 4320C Advanced Hematology (3)(W) Study of abnormal blood cells present in peripheral smear and bone marrow. Special tests performed in hematology and coagulation. Hematology automation. Lectures and laboratory.

#### MLS 4325 Selected Topics in Hematology

Current topics in Hematology of clinical significance. Review of literature and discussion of the selected topics. Prerequisite: Permission of the instructor.

### MLS 4327L Individualized Study in

(2-5)(W,S,SS) Hematology Introduction to problems in Hematology requiring research or independent study. Special work, lecture and/or laboratory as determined by advisor in accord with student's individual interest. Review of literature. Participation in seminars. Prerequisite: Permission of instructor.

MLS 4405 Clinical Microbiology (2)(W)Diagnostic microbiological procedures. Study of clinically significant organisms. Isolation media and biochemical tests for identification. Recognition of normal flora. Anaerobic procedures. Viruses, Fungi, Rickettsiae. Serological typing. Antibiotic sensitivity tests. Prerequisite: General Microbiology. Corequisite: Immunology.

MLS 4405L Clinical Microbiology

Laboratory (3)(W) Laboratory to accompany MLS-4405.

MLS 4406L Directed Study in Clinical (2)(W) Microbiology Selected laboratory techniques to accompany for MLS-4405. For M.L.T.'s

# **Occupational Therapy**

MLS 4460C Advanced Microbiology (5)(F,S) Lectures and laboratory. Identification of rare pathogens. Virology-tissue culture techniques. Mode of action and bacterial resistance to antibiotics. Fluorescent antibody techniques. Immunodiffussion. Immunoelectrophoresis. Seniors only.

### MLS 4465 Selected Topics in Microbiology

Microbiology (2)(VAR) Current topics in Microbiology of clinical significance. Review of literature and discussion of the selected topics. Prerequisite: Permission of the instructor.

### MLS 4467L Individualized Study in Clinical Microbiology (2-5)(F,S,SS)

Introduction to problem in Clinical Microbiology requiring research or independent study. Special work, lecture and/or laboratory as determined by advisor in accord with student's individual interest. Review of literature. Participation in seminars. Prerequisite: Permission of instructor.

### MLS 4530C Advanced Blood Banking

(3)(W) In depth study of Transfusion Therapy, the use and preparation of blood components, and special problems in blood banking. Lectures and laboratory. Seniors only.

MLS 4535 Blood Bank and Serology (2)(S) Diagnostic serological studies for venereal disease and other infections. Blood grouping and compatibility testing. Irregular antibody techniques. Paternity identification. Transfusion problems associated with pregnancy. Immunology prerequisite.

### MLS 4535L Blood Bank and Serology Laboratory (3)(S)

Laboratory to accompany MLS-4535.

### MLS 4536L Directed Study in Blood Banking and Serology (2)(S) Selected laboratory techniques to accompany

MLS-4535. For M.L.T.'s MLS 4551L Individualized Study in Blood

Banking (2-5)(F,W,SS) Introduction to problems in Blood Banking requiring research or independent study. Special work, lecture and/or laboratory as determined by advisor in accord with student's individual interest. Review of literature. Participation in seminars. Prerequisite: Permission of instructor.

#### MLS 4555 Selected Topics in Blood Banking (2)(VAR) Current topics in Blood Banking of clinical sig-

Current topics in Blood Banking of clinical significance. Review of literature and discussion of the selected topics. Prerequisite: Permission of the Instructor.

### MLS 4625 Clinical Chemistry Methods

(4)(F) Medical laboratory procedures for analysis of carbohydrates, proteins, lipids, enzymes, electrolytes. Renal and liver function profiles. Basic instrumentation. Automated analysis with emphasis on continuous flow. Quality control. Credit for all required chemistry lectures and laboratories except Biochemistry are prerequisite.

### MLS 4625L Clinical Chemistry Laboratory (4)(F)

Laboratory to accompany MLS 4625.

### MLS 4626L Directed Study in Clinical Chemistry (2) Selected laboratory techniques to accompany

MLS-4625. For M.L.T.'s

MLS 4630C Advanced Chemistry (5)(S) Lecture and Laboratory. Topics to be covered include analysis of thyroid hormones, estrogens, adrenal hormones and metabolites, radiommunoassay and radioisotope measurement, amniocentesis, toxicology, multichannel analyzers, and gas chromatography. Seniors only.

### MLS 4635 Selected Topics in Clinical

Chemistry (2)(VAR) Current topics in Clinical Chemistry of particular clinical significance. Review of literature and discussion of the selected topics. Prerequisite: Permission of the instructor.

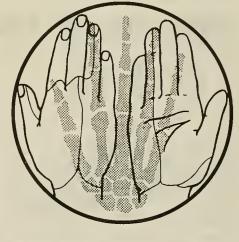
### MLS 4637L Individualized Study in Clinical Chemistry (2-5)(W,S,SS) Introduction to problems in Clinical Chemistry requiring research or independent study. Special work, laboratory and/or lecture as determined by advisor in accord with the student's individual interest. Review of literature. Participation in seminars. Prerequisite: Permission of instructor.

MLS 4700 Laboratory Management (2)(S) Personnel handling, laboratory records, equipment and reagent purchasing, laboratory computerization, quality assurance programs, workload recording programs, scheduling and methods of laboratory self-evaluation. Seniors only.

### MLS 4755C Laboratory Statistics and

Quality Control (2)(W) Lecture. Topics to be covered include basic laboratory statistics, linear regression and correlation analysis, quality control charting techniques, new method evaluation, problem solving using computer programs.

MLS 4820/MLS 4821 Practicum A and B (6)(F,W,S)



Hospital laboratory experience. Two quarters required. Rotation arranged to include 2 to 3 weeks in each of nine departments. Departmental rotation modified for students with life experience to meet needs or special interest. Rotation will be arranged through the hospital laboratory director and MDT education coordinator. All pre-practicum courses must be completed before admission to hospital rotation.

### MLS 5934, 5935, 5936 Seminar I, II, and III (1)(F,W,S)

Three quarters are required. Preparation and presentation of literature review and individualized projects. Instructional methods. Supervisory techniques. Seniors only.

### **Occupational Therapy**

Reba L. Anderson, Associate Professor and Chairperson

Suze Dudley, Assistant Professor Karen Bergman, Assistant Professor Shirley Carter, Assistant Professor

If you are interested in working with people, helping them to reach their maximum potential, and being of service to people with special problems, perhaps occupational therapy would be the profession in which you could attain these goals.

Occupational therapy is the process of focusing human energies to enhance the quality of life of the individual. Specific techniques are directed towards restoration, reinforcement, and enhancement of participation in life. Focus is on skills and functions essential for adaptation, prevention, and correction, in order to promote and maintain social, physical or mental health. Occupational therapy serves a wide population in a variety of settings such as hospitals and clinics, rehabilitation facilities, long-term care facilities, extended care facilities, sheltered workshops, schools, and community agencies.

The program in occupational therapy is accredited by The American Occupational Therapy Association and The American Medical Association.

In order to be admitted to the program in occupational therapy, applicants must meet the requirements for admission to the Unversity,

## School of Technology

# **Occupational Therapy**

have a cumulative G.P.A. of 2.5 or better, and have completed required prerequisites and 90 quarter hours of acceptable academic credit.

LOCATION: Tamiami Campus only.

DEGREE: Bachelor of Science in Occupational Therapy

LOWER DIVISION PREPARATION:

Required Courses: Biological Sciences (10 quarter hours) to include 5 hours of Biology with Lab; Social Sciences (20 quarter hours) to include 10 hours of Psychology, 5 hours of Sociology and/or Anthropology; and Statistics (5 quarter hours).\*5 quarter hours = 3 semester hours

### UPPER DIVISION PROGRAM:

Required Courses:

Reganca Courses.		Ourseter II	
		Quarter Hoi	ers
	Junior Year		
Fall Quarter			
OTH 3000	Introduction to		
	Occupational		
	Therapy	3	
OTH 3010	Clinical		
	Orientation for		
	OT	1	
OTH 3120	Therapeutic		
	Media I	5	
OTH 3810	Psychiatric Skil	lls	
	Lab for OT I	1	
PCB 3702	Human		
	Physiology	5	
PHT 3120	Fundamentals		
	Human		
	Performance	3	
	1 errormance	-	18
			10
Winter Own			
Winter Quarter	-		
OTH 3121	Therapeutic		
	Media II	5	
OTH 3327	lssues in		
	Psychosocial		
	Dysfunction/O	T 4	
PHT 3121	Applied		
	Kinesiology	5	
ZOO 3731	Anatomy for		
	Occupational		
	Therapists	4	
ZOO 3731L	Lab for Anator		
LOODIDIL	for OT	1	
	101 01	-	19
			19
Spring Quarter			
OTH 3328	Lanuas in		
0111 3320	Issues in		
	Psychosocial		
	Dysfunction for		
	Occupational		
	Therapists II	4	

OTH 3420	Therapeutic	
	Techniques in	
	Physical	
	Disabilities	2
OTH 3421	Physical	
	Disability Theory	3
OTH 3811	Psychiatric Skills	
	Lab for OT II	2
ZOO 3834	Neuroscience	6
2000000	1 couros cience	U
Summer Quarter		
OTH 3815	Field Work	
0111 5015	Experience	4
	Lapeneuce	7
	Senior Year	
E-II O	Senior Leur	
Fall Quarter	70 I I C	
OTH 3123	Technology for	
	Occupational	
	Therapists	5
OTH 3411	Pathology	2
OTH 4200	Developmental	
	Theory I	3
OTH 4320	Psychiatric	
	Occupational	
	Therapy Theory	5
OTH 4812	Psychiatric Skills	-
	Lab for OT III	1
		1
Winten Ouenten		
Winter Quarter	Duulaanatal	
OTH 4210	Developmental	2
0	Theory II	3
OTH 4260	Disability	-
	Evaluation 11	5
OTH 4321	Psychiatric	
	Occupational	
	Therapy Theory II	5
OTH 4422	Physical	
	Disability Theory II	
OTH 4813	Psychiatric Skills	
	Lab for OT IV	1
Spring Quarter		
OTH 4850 or		
OTH 4851	Field Work	
0111 1021		12
Summer Quarter		
OTH 4700	Organization and	
0111 4700	Administration	3
OTH 4750	Rehabilitation	5
01114730		3
OTH ATCO	Seminar	5
OTH 4760	Current Research	
	in Occupational	
	Therapy	3
OTH 4852	Field Work	
	Experience-or	
	OTH 5905	4

17

4

16

18

12

13

3 C T р ¢

Fall Quarter		
OTH 4850 or		
	ield Work	
E	xperience	12
		12
		129
Course Des	scriptions	
Definition of Prefix	-	
OTH-Occupationa Sciences; PHY-Ph logical Sciences.	1 Therapy; PCB-	-Biological ZOO-Bio-
OTH 3000 Introdu	ction to Occupa	tional
Therap		(3)(F)
History and devel Philosophy of treat	opment of the	
OTH 3120 Therap	eutic Media I	(5)(F)
The study of selected tic modalities.	ed major crafts a	s therapeu-
OTH 3121 Therap	eutic Media II	(5)(W)
The use of minor c ties.		
OTH 3327 Issues	in Psychosocial	
	ction for Occupa	ational
Therap		(4)(W)
Basis for understan		
as a diagnostic, eva cess for mental illne		tment pro-
OTH 3328 Issues	in Psychosocial	
	ction for Occupa	
Therap		(4)(S)
Continuation of OT	H 3327.	
OTH 3411 Patholo		(2)(F)
Brief review of orga	n systems, and p	rimary dis-
eases that affect ea	ch organ, with s	pecific em-
phasis on the disabi such diseases. Prere		
ogy.	quisites. Anaton	iy, physiol-
OTH 3420 Therap	eutic Techniques I Disabilities	(2)(S)
Upper extremity pro		
are investigated. Pr	esentation inclu	des the bi-
omechanics, anatom	y, materials and	appliances
necessary for fabric	cation, pre- and	post-pros-
thetic and orthotic		
dures and training 1 3743.	nethods. Prerequ	isite: ZOO
OTH 3421 Physica	Disability The	ory (3)(S)
The study of occupa	ational therapy as	s related to
physical disabilities.		
current treatment to		
Prerequisites: Anat	omy, physiology	, kinesiol-
ogy.		

## **Physical Therapy**

### OTH 3810 Psychiatric Skills Lab for

Occupational Therapy I (1)(F) An experientially oriented course directed toward helping students become aware of their own intrapersonal and interpersonal processes. Focus is on personal learning. Permission of Instructor.

OTH 3811 Psychiatric Skills Lab for Occupational Therapy II (2)(S) Continuation of OTH 3810.

OTH 3815 Field Work Experience (4)(SS) Pre-clinical experience in an approved training center.

OTH 4200 Developmental Theory 1 (3)(F) Introduction to developmental disabilities including mental retardation, cerebral palsy and learning disabilities.

OTH 4210 Developmental Theory II (3)(W) The use of developmental theory in occupational therapy practice.

OTH 4260 Disability Evaluation II (5)(W) Evaluation procedures in the testing of perceptual-motor dysfunctions. Prerequisites: Anatomy, psysiology, neuroscience. Lecture and lab.

OTH 4320 Psychiatric Occupational Therapy Theory (5)(F) Theories and approaches to psychological aspects of illness in the rehabilitative process. Lecture and lab.

OTH 4321 Psychiatric Occupational Therapy Theory II (5)(W) Continuation of OTH 4320. Lecture and lab.

OTH 4422 Physical Disability Theory (4)(W) Continuation of OTH 3421. Prerequisite: OTH 3421.

OTH 4700 Organization and Administration (3)(SS)

Administrative procedures in planning and operating an occupational therapy treatment program.

OTH 4750 Rehabilitation Seminar (3)(SS) Research in occupational therapy and related medical fields.

OTH 4760 Current Research in

Occupational Therapy (3)(SS) Introduction to research principles and terminology as applied to occupational therapy.

OTH 4812 Psychiatric Skills Lab for Occupational Therapy III (1)(F) Continuation of OTH 3811. OTH 4813 Psychiatric Skills Lab for Occupational Therapy IV (1)(W) Continuation of OTH 4812.

OTH 4850 Field Work Experience (12) Three month internship in a physical disabilities treatment center.

OTH 4851 Field Work Experience (12) Three month internship in a mental health treatment center.

OTH 4852 Field Work Experience

(Variable) Internship in a specialized treatment area.

OTH 5262 Evaluation and Treatment of Perceptual-Motor

Dysfunction (1-5) The study of specific evaluation tools, and developing treatment procedures directly related to these tests.

#### OTH 5329 Current Trends in Mental Health as Related to Occupational

Therapy Practice (1-5) Specialized study of specific treatment theories and the application of these theories to clinical practice.

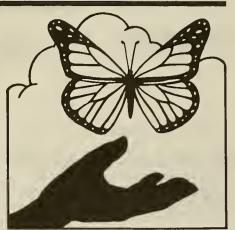
### OTH 5600 The Study of Gerontology as Related to Occupational

Therapy Practice (1-5) A study of the impact of advances in the field of gerontology, and current legislation affecting the profession.

OTH 5760 Current Research in

Occupational Therapy (1-5) Review of statistical concepts and research procedures in the clinical setting, with in-depth study of the current status of research in occupational therapy.

OTH 5905 Independent Study (Variable)



### **Physical Therapy**

Roger C. Skovly, Associate Professor and Chairperson

Burton J. Dunevitz, Associate Professor Terry W. Higgins, Assistant Professor Awilda R. Haskins, Assistant Professor

Accredited by the American Physical Therapy Association, the program emphasizes a progressive, student centered approach to educating physical therapists. Students progress through a variety of learning experiences designed to develop their evaluation and applied therapeutic skills in treating musculoskeletal, neurological, cardiovascular, and pulmonary disorders.

The Physical Therapy program is community-centered, utilizing clinical physical therapists, medical physicians and other allied medical professionals to complement the teaching efforts of regular faculty.

Graduates of the program are prepared to assume positions in a variety of settings, such as general hospitals, rehabilitation centers, private clinics, home health care facilities, school systems, student health and sports medicine centers. Many physical therapists are self employed.

Students applying to the program must meet general education requirements, and apply both to the University and the physical therapy program. Enrollment is limited, admission is selective, and acceptance to the University does not assure entrance to the Physical Therapy program. Deadline for receiving applications is December 31. One class is selected each academic year in April to commence course work in September.

LOCATION: Tamiami Campus only.

DEGREE: Bachelor of Science in Physical Therapy

LOWER DIVISION PREPARATION:

Required Courses: at least 90 quarter hours (60 semester hours) of acceptable college credit; at least one academic year of science coursework (with laboratory) in the area of biology or zool-

# Physical Therapy -

ogy, chemistry and physics; one year of psychology; a minimum grade average of 2.85 in the above required coursework; a minimum 2.75 overall GPA. UPPER DIVISION PROGRAM

UPPER DIVISI	ION PROGRAM:		
		arter	Hours
Required Courses	5.:		118-123
	Junior Year		
Fall Quarter			19
PCB 3703	Human		
	Physiology I	4	
PCB 3703L	Human		
	Physiology Lab I	1	
PHT 3001	Introduction to		
	Physical Therapy	1	
PHT 3122	Kinesiology I	4	
PHT 3201L	Basic Therapeutic	·	
	Skills 1	3	
ZOO 3733	Human Gross	5	
200 5755	Anatomy I	4	
ZOO 3733L	Human Gross	4	
200 57552		2	
Winter Ourstan	Anatomy Lab I	2	10
Winter Quarter PCB 3704	11		18
FCD 5704	Human		
DCD 2704I	Physiology 11	4	
PCB 3704L	Human	_	
DUTE STAR	Physiology Lab II	1	
PHT 3123	Kinesiology II	3	
PHT 3202	Basic Therapeutic		
	Skills II	4	
ZOO 3734	Human Gross		
	Anatomy II	4	
ZOO 3734L	Human Gross		
-	Anatomy LAB 11	2	
Spring Quarter			20
PHT 3133C	Musculoskeletal		
	Evaluation and		
	Lab	6	
PHT 3300	Physical Therapy		
	and Human		
	Disorders	4	
PHT 3803	Clinical Clerkship		
	1	3	
ZOO 3743	Neuroscience	5	
ZOO 3743L	Neuroscience Lab	2	
Summer Quarter			16
PHT 3231	Rehabilitation	3	
PHT 3232C	Prosthetics and		
	Orthotics	3	
PHT 3310	Orthopedic		
	Surgery	4	
PHT 3311	Clinical		
	Orthopedics	3	
PHT 3812	Clinical Clerkship		
	11	3	

	Senior Year		
Fall Quarter			16
PHT 3400	Emotional		
	Aspects of		
	Physical		
	Disability	2	
PHT 4141	Evaulation of the		
	Developing Child	3	
PHT 4235C	Electrodiagnosis	3	
PHT 4312	Neurology	3	
PHT 4313	Clinical		
	Neurology	2	
PHT 4822	Clinical Clerkship		
	111	3	
Winter Quarter			16
PHT 4823	Clinical Clerkship		
	IV	3	
PHT 4234C	Neurophysiologic		
	Techniques	6	
PHT 4510	Organization and		
	Administration	5	
PHT 4932	Research		
	Methods and		
	Design	2	
Spring Quarter	U		12
PHT 4824	Clinical		
	Internship	12	
PHT 4905	Independent		
	Study	(1-6)	
Summer Orienter	-	. ,	2
Summer Quarter PHT 4825	Clinian		3
FILI 4825	Clinical	2	
	Internship	3	

### **Course Descriptions**

**Definition of Prefixes** PCB-Biological Sciences; PHT-Physical Therapy; ZOO-Biological Sciences.

PHT 3001 Introduction to Physical Therapy (1)(F)A survey course of the present status of physical therapy as a health care profession.

PHT 3121 Applied Kinesiology (5)(W) A course providing learning experiences to develop skills in palpation, goniometry, manual muscle testing and motion analysis of normal subjects. For occupational therapy students.

PHT 3122 Kinesiology I (4)(F)A study of anatomical, physiological and biomechanical principles as they relate to body movement: coverage of upper extremity.

PHT 3123 Kinesiology II (3)(W) A study of the biomechanical principles related to the analysis of motion of the trunk, lower extremity, and normal gait.

#### PHT 3133C Musculoskeletal Evaluation (6)(S)

Laboratory experiences in measuring and recording the physical status of the musculoskeletal system, using the manual means of palpation, movement, muscle strength testing, goniometry, and x-ray. Abnormal gait patterns and posture evaluation will be presented.

PHT 3201L Basic Therapeutic Skills I

A study of the scientific rationale and performance of the basic skills of vital signs, massage, transfer techniques, and gait training in a lecture and laboratory setting.

### PHT 3202C Basic Therapeutic Skills II

(4)(W)

(3)(F)

A study of the physiological rationale for the use of the electrophysiological modalities, by physical therapists, performed in a lecture and laboratory setting.

PHT 3231 Rehabilitation (3)(SS)A study of functional evaluation and interpretation, treatment program planning, and total treatment of the severely physically disabled, including cardiac and pulmonary rehabilitation programs.

# Faculty

#### PHT 3232C Prosthetics and Orthotics (3)(SS)

A presentation of the biomechanics, anatomy, and appliances necessary to the evaluation, prescription, fabrication and use of prosthetic and orthotic devices.

PHT 3300 Physical Therapy and Human Disorders (4)(S) Lectures and media presentations related to human disorders typically seen within the practice of physical therapy.

PHT 3310 Orthopedic Surgery (4)(SS) Multimedia lectures and patient case studies presented by physicians, covering evaluation and (surgical and non-surgical) management of orthopedic patients.

PHT 3311 Clinical Orthopedics (3)(SS) Correlated with Orthopedic Surgery (PHT 3310): applications of physical therapy evaluation, treatment and management procedures for patients referred to physical therapists by physicians.

PHT 3400 Emotional Aspects of Physical Disability (2)

Examines attitudes of physical therapists toward disability; emotional reactions of patients to their own disability; and emotional disorders common to patients treated by physical therapists.

PHT 3812 Clinical Clerkship II (3)(SS) Extension of PHT 3801.

PHT 4141 Evaluation of the Developing Child (3)(F)

A study of the neuromuscular development characteristics of the child; information necessary as prerequisite to Neurophysiologic Techniques (PHT 4234C).

PHT 4234C Neurophysiologic Techniques (6)(W)

A study and application of the exercise techniques of Bobath, Rood, Brunnstrom, Knott and Voss to the treatment of children and adults with neurophysiologic deficits.

### PHT 4235C Electrodiagnosis

A study of electromyography and other electrical testing procedures for neuromuscular disorders; also, a study of basic acupuncture, transcutaneous stimulation, and biofeedback.

(3)(F)

PHT 4312 Neurology (3)(F) Taught by community neurologists, the course covers the evaluation and investigation of neurological disorders typically seen by a physical therapist.

PHT 4313 Clinical Neurology (2)(F) Correlated with Neurology (PHT 4312): applications of physical therapy evaluation, treatment and management procedures for patients referred to physical therapists by physicians.

PHT 4510 Organization and Administration (5)(S)

A study in management of physical therapy delivery systems and current health trends affecting the profession of physical therapy.

PHT	4822	Clinical	Clerkships	ш	(3)(F)
Exten	sion c	of PHT 3	801.		

PHT 4823 Clinical Clerkships IV (3)(W) Extension of PHT 4822.

PHT 4824 Clinical Internship (3)(SS) Extension of PHT 4825.

PHT 4825 Clinical Internship 11 (12)(S) Supervised full-time clinical experience, designed to afford the student the opportunity to gain experience in total care of patients, in the administration and supervision of a physical therapy department, and in his chosen area of specialization.

PHT 4905 Independent Study (1-6)(S,SS,F)(By permission of physical therapy faculty). The student will select a particular aspect of physical therapy or a related field for in-depth independent study.

PHT 4932 Research Methods and Design
(2)(W)

An introduction to research theory and methods, collection and analysis of data, and methods of presentation and interpretation, as they apply to physical therapy.

## School of Technology

Dean	Lambert Tall
Assistant Dean	Katharine R. Curry
Chairpersons:	
Construction	Jack L. Clark
Dietetics and Nutrition	Penelope Easton
Engineering Technology	James R. Story
Home Economics	<b>Betty Morrow</b>
Industrial Systems	Gabriel Aurioles
Medical Technology Marg	aret E. Waid, M.D.
Occupational Theropy	Reba Anderson
Physical Therapy	Roger Skovly
Program Directors:	
Communications Technolog	gy James Couch
Medical Records Administ	ration
	Florence Amato

### Faculty

- Alcorta, Sergio J., Ph.D., P.E., (University of Miami), Associate Professor, Engineering Technology
- Amato, Florence C., Ph.D., R.R.A., (St. Louis University), Associate Professor and Program Director, Medical Records Administration

Anderson, Reba L., M.A., O.T.R., (University of Florida), Chairperson and Associate Professor, Occupational Therapy

Assalone, Frances R., B.S., (Florida International University), Visiting Instructor, Communications Technology

- Aurioles, Gabriel, Ed.D., (Florida Atlantic University) Chairperson, Industrial Systems
- Bassett, William C., B.S., (Rhode Island School of Design), Visiting Instructor, Construction
- Bergman, Karen, M.S., O.T.R., (Boylor University), Assistant Professor, Occupational Therapy
- Canaves, Jaime, M.A., R.A., (University of Florida), Assistant Professor, Construction
- Carter, Shirley, M.H.S., O.T.R., (University of Florida), Assistant Professor, Occupational Therapy
- Cereijo, Manuel R., M.S., P.E., (Georgia Institute of Technology), Associate Professor, Electrical Engineering Technology
- Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania), Associate Professor, Construction
- Clark, Jack L., Ph.D., (Laurence University), Chairperson and Professor, Construction
- Couch, James E., M.S., (Florida State University), Program Director and Associate Professor, Communications Technology
- Curry, Katharine R., Ph.D., R.D., (Southern Illinois University), Assistant Dean and Associate Professor, School of Technology

- DeGroot, Sybil, Ph.D., (Ohio State University), Associate Professor, Industrial Systems
- Dudley, Suze, M.S., O.T.R., L.O.T. (Florida International University), Assistant Professor, Occupational Therapy
- Dunevitz, Burton J., M.S., R.P.T., (University of Nebraska), Associate Professor, Physical Therapy
- Easton, Penelope S., Ph.D., R.D., (Southern Illinois University), Professor and Chairperson, Dietetics and Nutrition
- Enrione, Evelyn, M.S., R.D., (Florida International University), Visiting Instructor, Dietetics and Nutrition
- Fairbanks, Jesse R., Ph.D., (Ohio State University), Associate Professor, Industrial Systems
- Glidden, Helen B., M.Ed., R.R.A., (Boston College), Assistant Professor, Medical Records Administration
- Hahs, Jimmy Dean D., D.E., P.E., (University of Oklahoma), Associate Professor, Engineering Technology
- Haskins, Awilda R., M.S. (State University of New York at Buffalo), Assistant Professor, Physical Therapy
- Higgins, Terry W., M.S., R.P.T., (Medical College of Virginia), Assistant Professor, Physical Therapy
- Himburg, Susan P., Ph.D., R.D., (University of Miami), Assistant Professor, Dietetics and Nutrition
- Hout-Cooper. Neil M., Ph.D., (Florida Atlantic University), Assistant Professor, Industrial Systems
- Howard, Greta, M.Sc., (Florida International University), Instructor, Home Economics
- Judge, Robert M., Ph.D., (University of Arizona), Assistant Professor, Engineering Technology

- Katz, Eric S., M.S., (Florida State University), Assistant Professor, Communications Technology
- Khan, Abdur Rasbeed, Ph.D., R.D., (Kansas State University), Assistant Professor, Dietetics and Nutrition
- Kruse, Barbara S., M.P.H., R.D., (University of California at Berkeley), Visiting Instructor, Dietetics and Nutrition
- Leonard, Rene J., D.Sc. (University of Miami), Associate Professor, Engineering Technology
- Llevada. Evodio. Ph.D., (University of Miami), Assistant Professor, Industrial Systems
- Majzub, Iraj E., D. Arch., (University of Torino), R.A., Professor, Construction
- Meszaros, Hedvika, M. Arch. Engr., (Czech University of Technology in Prague), R.A., Assistant Professor, Construction
- Morrow, Betty, Ph.D., (University of Miami), Chairperson and Assistant Professor
- Myers, Susan J., M.S., (Florida State University), M.S.M., (Florida International University), R.D., Assistant Professor, Dietetics and Nutrition
- Ogle, Florence B., M.S., (Indiana State University), Associate Professor, Home Economics
- Otazo, Julio O., M.A. Arch., (University of Florida), R.A., Assistant Professor, Construction
- Pierce, Gerard J., M.A., (California State College), Associate Professor, Construction
- Remington, John, Ph.D., (University of Michigan), Assistant Professor, Industrial Systems
- Robinson, Joyce T., M.S., M.T., (ASCP), (Pepperdine University), Assistant Professor, Medical Technology
- Seedarnee, Frank A., M.Sc., F.I.M.L.S., (Brunel University), Assistant Professor, Medical Technology

- Skovly, Roger C., M.S., R.P.T., (University of Iowa), Associate Professor and Chairperson, Physical Therapy
- Smith, Adele, M.S., (Auburn University), Assistant Professor, Home Economics
- Smith, Sylvia L., M.S., S.M., (AAM), S.M. (ASCP), (University of Miami), Associate Professor, Medical Technology
- Storm, Penelope, Ph.D., (University of Maryland), Assistant Professor, Home Economics
- Story, James R., Ph.D., (University of Alabama), Chairperson and Associate Professor, Engineering Technology
- Subbarao, Wunnava V., Ph.D., (Andhra University), Associate Professor, Engineering Technology
- Tall, Lambert, Ph.D., (Lehigh University), Professor and Dean, School of Technology
- Thompson, LeRoy E., Ph.D., P.E., (Rice University), Professor, Engineering Technology
- Ural, Oktay, Ph.D., P.E., (North Carolina State University), Coordinator and Director, Professor, Construction
- Villar, Juan, M.S., (Georgia Institute of Technology), Assistant Professor, Engineering Technology
- Villate, Jose T., Ph.D., (University of Wisconsin), P.E., Associate Professor, Engineering Technology
- Waid, Margaret E., M.D., M.T., (ASCP), (University of Michigan), Professor and Chairperson, Medical Technology
- Wallace. Donald F., Ph.D., P.E., (University of Missouri), Associate Professor, Industrial Systems
- Zins, Janet L., M.S., M.T., (ASCP), (University of Cincinnati), Associate Professor, Medical Technology

(5)(W)

(5)(F)

## **Military Programs**

### Air Force ROTC

Florida International University, in cooperation with the University of Miami, offers Air Force ROTC to full-time students through an enrollment agreement between the two institutions. All classes and leadership labs are taught on the University of Miami campus. Questions regarding the Air Force ROTC program should be directed to the Department of Aerospace Studies at the University of Miami, 284–2870.

### LOWER DIVISION PREPARATION:

Required Courses: Aerospace Studies 1000 and 2000 (see remarks), 4 semesters credit.

*Remarks:* Lower division requirements may be waived if the student (1) is a veteran, or (2) is selected for a two-year (upper division only) program and attends a six-week preparatory camp before enrolling in AFR 3201C.

### UPPER DIVISION PROGRAM:

Required Courses: AFR 3201C, 3210C AFR 4220, 4230C

*Remarks:* The upper division program is designed to prepare interested and qualified students for commissioning as officers in the U.S. Air Force upon graduation. Students are furnished uniforms and textbooks and receive \$100.00 per month during the academic year.

### **Army ROTC Program**

Florida International's Army ROTC Program is offered through a cross-enrollment agreement with the University of Miami. The classroom portion of the courses are taught at Florida International one day each week. Any questions should be referred to the Military Science Department at the University of Miami.

### LOWER DIVISION PREPARATION:

Required Courses: Military Science I and II (See remarks).

*Remarks:* The lower division requirements may be waived if the student (1) is a veteran or (2) attends a basic camp prior to entering MIS 3423.

### UPPER DIVISION PROGRAM:

Required Courses: MIS 3423, 3310 MIS 4120, 4410

*Remarks:* The program is designed to select interested and qualified individuals for entry into the U.S. Army on an active duty or reserve status.

### **Marine Officer Programs**

Qualified students may apply for an officer program leading to a commission as a Second Lieutenant in the United States Marine Corps. Commissions are offered in both ground and aviation components. The Platoon Leaders Course (PLC) is offered to freshmen, sophomores and juniors who attend precommissioning training during the summer. Financial assistance and Flight Indoctrination Programs are available. Qualified seniors attend twelve weeks of training in the Officer Candidate Course (OCC) after graduation. For details, contact the Career Development and Placement Office, or the Marine Officer Selection Officer when he is on campus.

### **Course Descriptions**

#### AIR FORCE ROTC

AFR 3201 Principles of USAF

Leadership and Management (5)(F) Professionalism; responsibilities; the Military Justice System; leadership theory and practices; management tools, principles, practice; problem solving.

### AFR 3210 Principles of USAF Leadership and Management

Continuation of AFR 3201.

### AFR 4220 National Security

Forces In Contemporary American Society

Principal requisites for maintaining adequate national security forces. Functional processes and institutional structure involved in the formulation and implementation of U.S. defense policy.

### AFR 4230 National Security

Forces In Contemporary American Society (5)(W) Political, economic and social constraints affecting the formulation of U.S. defense policy. The impact of both technological and international developments upon strategic preparedness and the overall defense policy-making process.

### ARMY ROTC

### MIS 3423 Military Leadership and Motivation

(Advanced MS II)

(5)

A behavioral science approach to military leadership and motivation, with emphasis on crisisoriented organizations.

MIS 3310 Advanced Military III (5) Applied tactics; principles and fundmentals of tactical operations. Advanced leadership.

MIS 4120 Advanced Military Science IV (5) World power relationships: world change and military implications. Applied leadership. Military administration and justice.

MIS 4410 Advanced Military Science IV (5) Theory and dynamics of the military team. Applied leadership.



## Academic/Career

А		Adult Learning Systems	
× *		Certificate	EDU 5
Academic Advising		Alumni Affairs	GEN 28
(see academic programs)		Anthropology	A&S 2
Academic Affairs, Division of	GEN 4, 24,30	Apparel Manufacturing	
Academic Calendar	0.21, 2.,00	Management Certificate	TECH 27
(inside front and back cover)		Application	i Leii Zi
Academic Degrees	GEN 5	Graduation	GEN 15
Academic Honors	GEN 15	University, for Admission	GEN 9
Academic Information	GEN 3	Architectural Technology	TECH 7
	OEN 5		ILCII /
Academic Majors Leading to the	GEN 3	Art	A P-C 27
Bachelors Degrees		Performing	A&S 37
Masters Degrees	GEN 4	Visual	A&S 72
Doctoral & Specialist Degrees	GEN 5	Art Education	EDU 18, 22
Academic Programs-see titles		Articulation and Recruitment	GEN 18
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## ACADEMIC CALENDAR, 1980 FLORIDA INTERNATIONAL UNIVERSITY

### **SPRING QUARTER 1980**

February 8	Last Day for Receipt of Admissions Application for International Students Applying to the Spring Quarter
February 18-22	
March 10	Last Day for Receipt of Applications (Including Appropriate Credentials) for Regular Admissions to Spring Quarter
March 31	Registration Day
April 1	Classes Begin
	Drop and Add Period Begins
April 7	Last Day to Complete Late Registration
•	Drop and Add Period Ends
•	Last Day to Drop Courses or Withdraw from the University
	Without Incurring a Financial Liability
	Last Day to Pay Fees Without a \$50.00 Late Fee
	Last Day to Pay Fees to Avoid Cancellation of Enrollment
April 21	Last Day to Apply for Spring Quarter Graduation
April 28	Last Day to Reinstate Cancelled Enrollments
May 12-16	Official Registration Week for the Summer Quarter
May 12	Last Day to Drop a Course With a Grade of DR
	Last Day to Withdraw from the University with a WI Grade
May 26	Memorial Day Holiday (University Closed)
June 13	Classes End
June 14	Official Commencement Exercises
SUMMER Q	UARTER 1980
March 24	Last Day for Receipt of Admissions Application for International Students Applying to the Summer Quarter
May 12-16	Official Registration Week for the Summer Quarter
June 2	Last Day for Receipt of Applications (Including Appropriate Credentials) for Regular Admissions to Summer Quarter
June 23	Registration Day
June 24	Classes Begin
	Drop and Add Period Begins
June 30	Last Day to Complete Late Registration
	Drop and Add Period Ends
	Last Day to Drop Courses or Withdraw from the University
	Without Incurring a Financial Liability
	Last Day to Pay Fees Without a \$50.00 Late Fee
	Last Day to Pay Fees to Avoid Cancellation of Enrollment
July 4	Independence Day Holiday (University Closed)
July 14	Last Day to Apply for Summer Quarter Graduation
July 21	Last Day to Reinstate Cancelled Enrollments
August 4-8	Official Registration Week for the Fall Quarter
August 4	Last Day to Drop a Course with a Grade of DR
	Last Day to Withdraw from the University with a WI Grade
August 29	Classes End

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