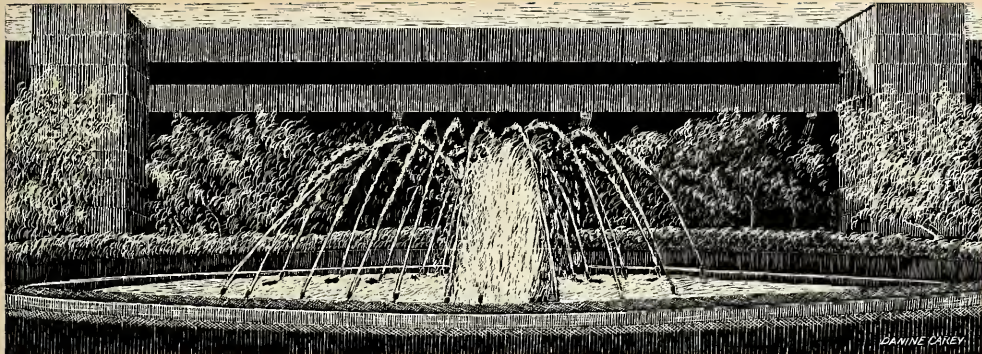


FLORIDA INTERNATIONAL UNIVERSITY



ACADEMIC CATALOG 1983-1984

MIAMI, FLORIDA

# ACADEMIC CALENDAR 1983-84\*

## FLORIDA INTERNATIONAL UNIVERSITY

### FALL SEMESTER 1983

May 25	Last day for receipt of International Students' Admission Application for Fall Term.
July 13	Last day for receipt of Admission Application, including all appropriate credentials, for Fall Term.
July 25-29	Official Registration Week (Degree-Seeking Students), by appointment only, for Fall Term.
August 1-12	Open Registration for Fall.
August 22	Registration Day.
August 24	Classes Begin.
September 2	Last day to complete Late Registration by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Drop/Add Period ends.</li> <li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>• Last day to pay tuition and fees without incurring a late fee.</li> <li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
September 5	Labor Day Holiday (University closed).
September 16	Last day to apply for Fall Term graduation.
September 23	Last day to complete withdrawal with a 25% refund of tuition less bonding fees.
October 21	Last day to drop a course with a DR grade, by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Last day to withdraw from the University with a WI grade.</li> <li>• Last day for reinstatement of cancelled courses due to non-payment.</li> </ul>
November 11	Veterans Day Holiday (University Closed).
November 14-18	Official Registration Week (Degree-seeking Students), by appointment only, for Spring Term.
November 24-25	Thanksgiving Holiday (University closed).
November 28-	
December 9	Open Registration for Spring Term.
December 9	Classes End.
December 12-16	Official Examination Period.

### SPRING SEMESTER 1984

October 5	Last day for receipt of International Students' Admission Application for Spring Term.
November 14-18	Official Registration Week (Degree-Seeking Students), by appointment only, for Spring Term.
November 23	Last day for receipt of Admission Application, including all appropriate credentials, for Spring Term.
November 28-	
December 9	Open Registration for Spring Term.
January 2	New Year Holiday (University closed).
January 3	Registration Day.
January 5	Classes Begin.
January 13	Last day to complete Late Registration by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Drop/Add Period ends.</li> <li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>• Last day to pay tuition and fees without incurring a late fee.</li> <li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
January 27	Last day to apply for Spring Term graduation.
February 3	Last day to complete withdrawal with a 25% refund of tuition less bonding fees.
March 2	Last day to drop a course with a DR grade by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Last day to withdraw from the University with a WI grade.</li> <li>• Last day for reinstatement of cancelled courses due to non-payment.</li> </ul>
March 26-30	Official Registration Week (Degree-Seeking Students), by appointment only, for Complete Summer Term, Summer Term A, and Summer Term B.
April 2-6	Spring Break.
April 9-20	Open Registration for Complete Summer Term, Summer Term A, and Summer Term B.
April 20	Classes End.
April 23-27	Official Examination Period.

**Florida International University**  
1983-84 Catalog  
Miami, Florida  
Member of the State University System

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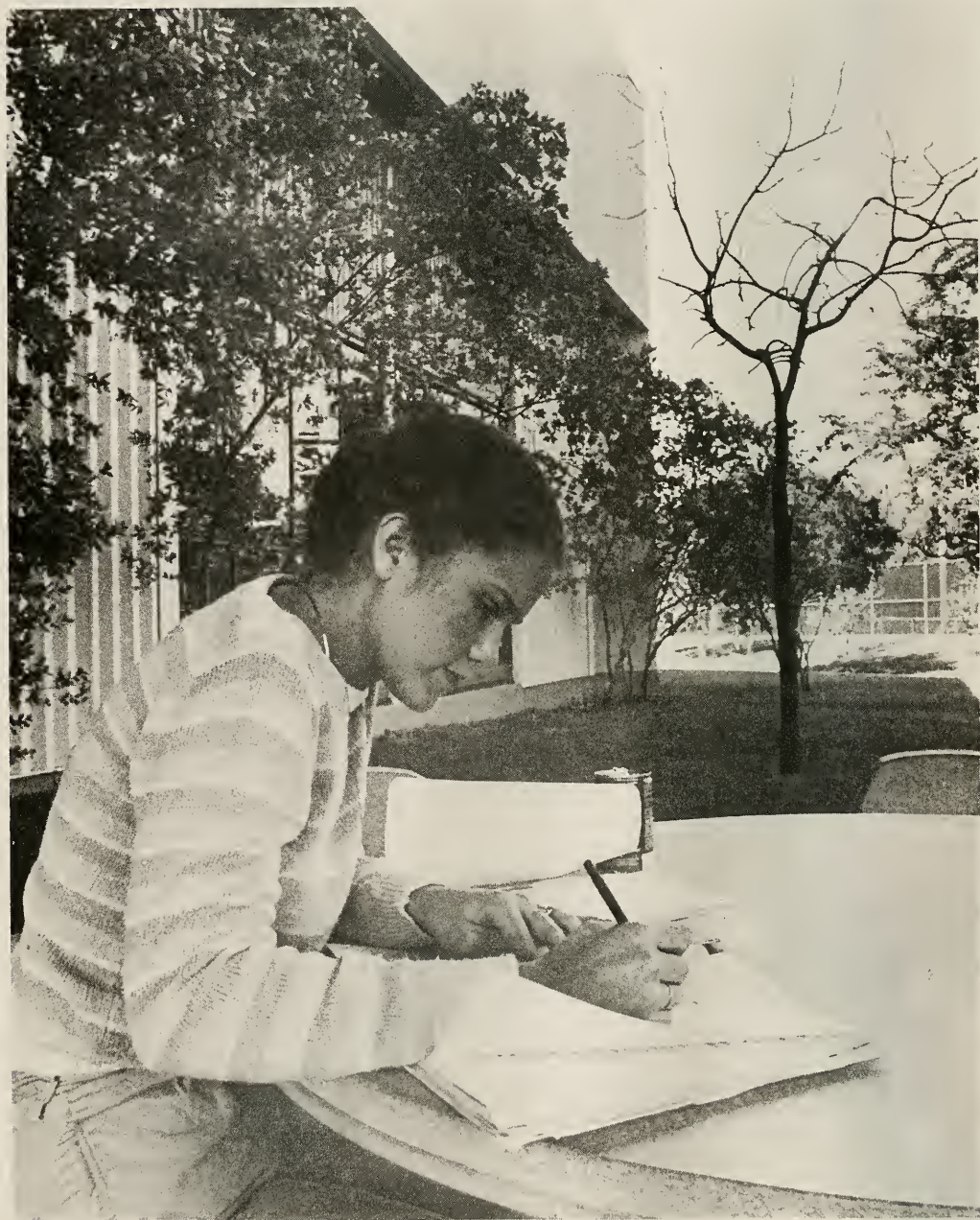
Graphic Design by FIU Publications Department; Photography by FIU Media Services.

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.

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

The fees given in this catalog are tentative pending legislative action.







# General Information

## State Board of Education

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

## Florida Board of Regents

Hon. Murray H. Dubbin	<i>Chairman—Miami</i>
Hon. Betty Anne Staton	<i>Vice-Chairman, Orlando</i>
Hon. DuBose Ausley	<i>Tallahassee</i>
Hon. J. Hyatt Brown	<i>Daytona Beach</i>
Hon. Cecilia Byant	<i>Jacksonville</i>
Hon. Robin Gibson	<i>Lake Wales</i>
Hon. Raleigh Greene	<i>St. Petersburg</i>
Hon. William F. Leonard	<i>Ft. Lauderdale</i>
Hon. William L. Maloy	<i>Pensacola</i>
Hon. Christina Mazzara	<i>Student Regent</i>
Hon. Frank P. Scruggs, II	<i>Miami</i>
Hon. T. Terrell Sessums	<i>Tampa</i>
Hon. Ralph D. Turlington	<i>Commissioner of Education, Tallahassee</i>
Hon. Barbara Newell	<i>Chancellor, State University System</i>

## University Officials

Gregory Baker Wolfe	<i>President</i>
Steven Altman	<i>Provost and Vice President for Academic Affairs</i>
Patricia H. Lutterbie	<i>Vice Provost and Vice-President for Student Affairs</i>
Rosebud L. Foster	<i>Vice Provost, Bay Vista Campus</i>
Ronald G. Arrowsmith	<i>Vice President for Administrative Affairs</i>
Emanuel Harris Jr.	<i>Vice President for Human Resources</i>
Albert Veliky	<i>Vice President for University Relations and Development</i>

## History

Florida International University was established by the Florida State Legislature on June 22, 1965. It is a member institution of the State University System of Florida.

Classes began at the Tamiami Campus on September 19, 1972 with an initial enrollment of almost 6,000 upper-level undergraduate and graduate students.

The Florida Board of Regents appointed Charles E. Perry as the first president on July 11, 1969. He was succeeded on June 1, 1976, by President Harold Brian Crosby. Gregory Baker Wolfe was named the third and current president 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. Earlier, Dr. Wolfe served as President of Portland State University in Oregon and has had a distinguished international career in business as

well as government. He served on the White House staff for the development of Washington's mass transit system, has been in the U.S. Foreign Service and has advised international chiefs of state on economic and political development.

For nine years (1972-81), FIU offered upper-level and graduate programs of study. In July, 1981, the Legislature funded the University to become a four-year institution. In August 1981 the first freshman class was admitted.

## Goals

The University's academic programs are designed to achieve three goals: Provide university education with emphasis on the liberal arts to qualified lower division students, preparing them for careers in social service, business, industry, education and other professions at upper division and graduate levels; enrich their intellectual experience in an effort to cultivate effective members for a modern global society; and offer them the opportunity to absorb and contribute to the richness of South Florida's cultural, aesthetic and technological environments.

Serve the broad community, with special concern for Greater Miami and South Florida, enhancing the metropolitan area's capacity to meet its cultural, economic, social and urban challenges.

Become a major international education center by helping create greater understanding among the people of the Americas and the world.

## Campuses

The University has two campuses and a major center. The Tamiami Campus in Southwest Dade County is about 10 miles west of downtown Miami on Tamiami Trail (S.W. 8th Street) between 107 and 117 Avenues. The Bay Vista Campus is located on Biscayne Bay between N.E. 135 and 151 Streets in North Miami. Both campuses operate under a central administration. Florida International University and Florida Atlantic University have established an academic studies and research center in Broward County. The primary office is located in Davie at 3501 Southwest Davie Road on the Central Campus of Broward Community College.

### Tamiami Campus

The Tamiami Campus occupies 344 acres in west central Dade County. Since 1970, six buildings have been constructed at a cost of 38 million dollars. The campus development plan includes provisions for additional facilities to accommodate anticipated growth needs.

### Bay Vista Campus

In 1973, a 200 acre tract of land was deeded to the University by the Florida Board of Regents for a second campus. The first building of this waterside facility was completed during 1976. Bay Vista's development plan is designed to accommodate growth needs of Dade and Broward County residents.

As an extension of the Bay Vista School of Education, an FIU Center has been opened at

Broward Community College South Campus in Pembroke Pines, a suburb of Fort Lauderdale. The Center offers degree programs and certification courses to serve the needs of public and private school teachers as well as pre-service teachers in South Broward County.

Both Tamiami and Bay Vista Campuses are served by a total of nine major buildings of award-winning design, enhancing the University family's enjoyment of South Florida's natural beauty. Student-guided tours of both campuses are available upon request to all visitors.

### Broward County Center

Florida International University serves Broward County by means of programs in that county as well as accessible programs at the Bay Vista Campus and Tamiami Campus. Complete academic programs and supplementary courses are offered at Broward Community College (Central Campus) and in downtown Fort Lauderdale. Programs of study and research endeavors have been increasing in support of business, industry, financial institutions, health agencies, governments and schools.

FIU and Florida Atlantic University have joined together to offer cooperative programs needed by Broward citizens.

The FIU-FAU office is located in room 224, Whitten Hall (Building 9), BCC Central, 3501 Southwest Davie Road, Davie. The telephone numbers are (305) 474-1382, 474-1402 for Broward County residents; (305) 948-6748 for Dade County residents; and (305) 939-3727 for Palm Beach County residents. Another office and class site exists at the FAU-FIU Joint Center at 1515 W. Commercial Blvd. in Fort Lauderdale. The telephone numbers there, are (305) 949-2391 for Dade County residents and (305) 776-1240 for Broward County residents.

## General Academic Information

Florida International University offers a variety of academic programs and courses at the bachelor's and master's degree levels designed to respond to the changing needs of the growing metropolitan area of Dade County and South Florida. Degree level programs are offered in the College of Arts and Sciences, College of Business Administration, School of Education, School of Hospitality Management, School of Nursing, School of Public Affairs and Services, and College of Technology. Graduate study at the doctoral level is available in selected concentration through the School of Education.

## Accreditation and Memberships

All academic programs of the 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 pursuing full professional accreditation or approval.

The University is also an affiliate member of the Association of Upper Level Colleges and

Universities, the American Association of State Colleges and Universities, the Florida Association of Colleges and Universities, the Association of Caribbean Universities and Research Institutes, the American Association of Community and Junior Colleges, a Charter Member of the Southeast Florida Educational Consortium, and numerous other educational and professional associations. The following agencies have accredited professional programs at Florida International University:

- American Assembly of Collegiate Schools of Business
- 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
- The Accreditation Board for Engineering and Technology
- The American Home Economics Association

## 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:

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

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

### COLLEGE OF ARTS and SCIENCES

- BACHELOR OF ARTS in:
  - Chemistry
  - Earth Science

- Economics
- English
- Environmental Studies
- French
- German
- History
- Humanities
- International Relations
- Italian
- Liberal Studies
- Philosophy
- Political Science
- Portuguese
- Psychology
- Religious Studies
- Sociology/Anthropology
- Spanish

#### BACHELOR OF SCIENCE in:

- Biological Science
- Chemistry
- Computer Science
- Earth Science
- Environmental Studies
- Mathematical Sciences
- Mathematics
- Physics
- Statistics

#### BACHELOR OF MUSIC

#### BACHELOR OF FINE ARTS

#### MASTER OF ARTS in:

- Economics
- International Studies
- MASTER OF SCIENCE in:
  - Biology (offered jointly with FAU)
  - Chemistry (offered jointly with FAU)
  - Computer Science
  - Environmental and Urban Systems (offered jointly with College of Technology)
  - General Psychology
  - Mathematical Sciences
  - Physics (offered jointly with FAU)
  - Psychology (offered jointly with FAU)

### COLLEGE OF BUSINESS ADMINISTRATION

#### BACHELOR OF BUSINESS

#### ADMINISTRATION with majors in:

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

#### MASTER OF ACCOUNTING

#### MASTER IN BUSINESS

#### ADMINISTRATION

#### MASTER IN INTERNATIONAL BUSINESS

#### MASTER OF SCIENCE IN

#### MANAGEMENT with majors in:

- Finance
- Real Estate
- Information Systems
- MASTER OF SCIENCE IN TAXATION

### SCHOOL OF EDUCATION

- BACHELOR OF SCIENCE in:
  - Art Education

- Business Education
- Elementary Education
- English Education
- Health Education
- Health Occupations Education
- History Education
- Home Economics Education
- Industrial Arts
- Mathematics Education
- Modern Language Education
  - (with majors in French, German or Spanish)
- Music Education
- Parks and Recreation Management
- Physical Education
- Science Education
  - (with majors in Biological Science and Physical Science)
- Social Studies Education
- Special Education
  - (with majors in Emotional Disturbance, Mental Retardation, and Specific Learning Disabilities)
- Vocational Education
  - (with majors in Technical Education and Vocational Industrial Education)
- MASTER OF SCIENCE in:
  - Adult Education
    - (with majors in Adult Education, and Administration of Adult Education)
  - Art Education
  - Business Education
  - Counselor Education (School and Community)
  - Diagnostic Teaching
    - (with majors in Emotional Disturbance, Mental Retardation, and Specific Learning Disabilities)
  - Early Childhood Education
  - Elementary Education
  - English Education
  - Health Education
  - Health Occupations Education
  - Home Economics Education
  - Industrial Arts
  - Mathematics Education
  - Music Education
  - Parks and Recreation Administration
  - Physical Education
  - School Administration and Supervision
    - (with majors in Education Administration and Supervision, Elementary Education, and Secondary Education)
  - School Psychology
  - Science Education
  - Social Studies Education
  - Modern Language Education (Spanish, French)
  - Teaching English to Speakers of Other Languages (TESOL)
  - Vocational Education
    - (with majors in Administration Supervision, Technical and Vocational Education)
- Cooperative Doctoral Programs: (Ed.D)
  - a. In collaboration with the University of Florida
    - Educational Administration
    - Curriculum and Instruction: Instructional Leadership
  - b. In collaboration with Florida State University
    - Adult Education



## **SCHOOL OF HOSPITALITY MANAGEMENT**

**BACHELOR OF SCIENCE** with a  
major in General Hospitality  
Management

**MASTER OF SCIENCE** in  
Hotel and Food Service Management

## **SCHOOL OF NURSING**

**BACHELOR OF SCIENCE** IN NURSING

## **SCHOOL OF PUBLIC AFFAIRS and SERVICES**

**BACHELOR OF SCIENCE** in:  
Criminal Justice  
Social Work

**BACHELOR OF HEALTH SERVICES  
ADMINISTRATION**

**BACHELOR OF PUBLIC  
ADMINISTRATION**

**MASTER OF SCIENCE** in:  
Criminal Justice

**MASTER OF HEALTH SERVICES  
ADMINISTRATION**

**MASTER OF PUBLIC ADMINISTRATION**  
**MASTER OF SOCIAL WORK**

## **COLLEGE OF TECHNOLOGY**

**BACHELOR OF SCIENCE** in:  
Apparel Management  
Architectural Technology  
Civil Engineering  
Communication Technology  
Construction Engineering Technology  
Construction Management  
Dietetics and Nutrition  
Electrical Engineering  
Environmental Technology and Urban  
Systems

Fire Science and Safety  
Home Economics  
Industrial Technology  
Interior Design  
Mechanical Engineering Technology  
Medical Records Administration  
Medical Technology  
Occupational Therapy  
Physical Therapy

**BACHELOR OF TECHNOLOGY** in:  
Industrial Technology

**MASTER OF SCIENCE** in:  
Dietetics  
Environmental and Urban Systems



## **BAY VISTA CAMPUS PROGRAMS**

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

#### *Undergraduate level:*

Humanities  
International Relations (minor in Political  
Science)  
Psychology

### **College of Business Administration**

#### *Undergraduate level:*

Management  
Marketing



*Graduate level:*

Business Administration

School of Education

*Undergraduate level:*

Elementary Education  
Emotional Disturbances  
Health Occupations Education\*  
Mental Retardation  
Specific Learning Disabilities

*Graduate level:*

Adult Education  
Curriculum and Instruction\*  
Doctoral Programs\*  
Early Childhood Education  
Educational Administration & Supervision  
Elementary Education  
Emotional Disturbances

Health Occupations Education\*

Mental Retardation

Reading  
Specific Learning Disabilities\*

School of Nursing

*Undergraduate level:*

Nursing

School of Public Affairs and Services

*Undergraduate level:*

Criminal Justice  
Health Services Administration  
Public Administration  
Social Work

*Graduate Level:*

Criminal Justice  
Health Services Administration  
Public Administration  
Social Work

College of Technology

*Undergraduate level:*

Communication Technology  
Construction Engineering Technology  
Interior Design  
Medical Records Administration

\*The complete program of studies is not available on the Bay Vista Campus. The student is expected to complete course work on the Tamiami Campus.

## BROWARD COUNTY PROGRAMS and SUPPLEMENTARY COURSES

College of Business Administration

*Undergraduate level:\**

Marketing  
Management  
*Graduate level:\**  
Business Administration

School of Education

*Undergraduate level:*

Elementary Education\*  
Health Occupations Education  
Parks and Recreation\*  
Special Education\*  
Vocational Education

*Graduate level:*

Adult Education  
Bilingual Education  
Educational Administration  
Physical Education  
Reading

School of Public Affairs and Services

*Undergraduate level:*

Health Services Administration  
Public Administration\*  
Criminal Justice\*  
Social Work\*

*Graduate level:*

Public Administration  
Criminal Justice\*  
Social Work\*  
Health Services Administration\*

\*Complete program not available at Broward County locations; but it may be completed by pursuing courses at Bay Vista Campus or Tamiami Campus.

## Minors

A minor program is an arrangement of courses enabling a student to develop a degree of expertise and knowledge in an area of study in addition to his/her major academic program of study.

To receive a minor, a student must also complete the requirements for a baccalaureate degree from the University. A minor is not interdisciplinary.

The College of Arts and Sciences offers Minor Programs in:

Art History  
Biology  
Chemistry  
Computer Science  
Earth Science  
Economics  
English  
Environmental Studies  
French Language and Culture  
General Translation Studies  
History  
Human Biology  
International Relations  
Mathematics  
Philosophy  
Physics  
Political Science  
Portuguese  
Psychology  
Religious Studies  
Sociology/Anthropology  
Statistics  
Theatre  
Visual Arts

The School of Public Affairs and Services offers a Minor Program in:

Criminal Justice  
Public Administration  
Social Welfare

## CERTIFICATES

Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration available for selection by students.

Successful completion of a Certificate Program is entered on the student's transcript and records.

There are two types of Certificates:

1. *Academic Certificates:* awarded by an academic unit to a student at the time of awarding the Bachelor's Degree; or upon completion of

the appropriate course work to a student who already has a Bachelor's Degree.

An Academic Certificate shall not be awarded to a student who does not either possess a Bachelor's Degree or does not complete a Bachelor's Degree Program. An Academic Certificate is to be interdisciplinary in nature, to the greatest extent possible.

2. *Professional Certificates:* awarded by an academic unit to an individual who completes the appropriate course work in the area of concentration. The Professional Certificate does not need to be interdisciplinary or associated with a degree program.

For details and course requirements, refer to the individual section of each College/School.

The College of Arts and Sciences offers Academic Certificates in:

American Studies  
Consumer Affairs  
Environmental Studies  
Ethnic Studies  
International Studies  
Latin American and Caribbean Studies  
Linguistic Studies  
Marine Science  
Tropical Commercial Botany  
Western Social and Political Thought  
Women's Studies

The College of Business Administration offers Certificates in:

Banking  
Insurance  
International Bank Management  
Marketing  
Personnel Management  
Savings and Loans  
Transportation Management

The School of Education offers Professional Certificates in:

Adult Learning Systems  
Business Education  
Emotional Disturbance  
Guidance  
Health Occupations Education  
Reading and Language Arts  
Specific Learning Disabilities  
Urban Education  
Vocational Education for the Handicapped

The School of Hospitality Management offers certificates in:

Hotel and Restaurant Management  
Travel and Tourism Management

The College of Technology offers Professional Certificates in:

Apparel Manufacturing/Management  
Heating, Ventilation and A/C Design  
Industrial and Labor Relations  
Industrial Safety  
Production and Manufacturing

and an Academic certificate in:  
Management and Consumer Affairs

The School of Public Affairs and Services offers Professional Certificates in:

Public Budgeting and Financial Management  
Public Personnel Management and Labor Relations

## Office of Admissions

FLORIDA INTERNATIONAL UNIVERSITY ENCOURAGES APPLICATIONS FROM QUALIFIED APPLICANTS WITHOUT REGARD TO SEX, PHYSICAL HANDICAP, OR CULTURAL, RACIAL, RELIGIOUS, OR ETHNIC BACKGROUND OR ASSOCIATION.

## Admission Procedure

Degree-seeking applicants can obtain an application for admission and related information, from the Office of Admissions, Tamiami Campus, Tamiami Trail, Miami, Florida 33199, and Bay Vista Campus, North Miami, Florida 33181.

A completed Admission Application and all supporting credentials must be on file with the Office of Admissions before a final decision can be made on the admission of an applicant. The following credentials are required for admission by the Florida Board of Regents:

**Application for Admission:** A fifteen dollar (\$15) *non-refundable* application fee must accompany the completed Admission Application form. Submission deadlines for each term are indicated in the Catalog under University Calendar. Applications of non-admitted students will be kept on file for one year from the anticipated date of entry.

In addition to the application for admission, the following is required:

### Freshman Applicants:

- The official secondary school transcript sent directly from the school.
- Scores of either the Scholastic Aptitude Test (SAT) or the American College Test (ACT), sent directly from the testing agency.
- A 500-word hand-written autobiographical essay.

### Transfer Applicants:

Official transcripts from previous post-secondary institutions must be forwarded to the Office of Admissions by the Registrar of the previous institution. It is the responsibility of the applicant to initiate the requests. Transcripts must be received no later than 15 days before the first day of class of the anticipated date of entry.

**Student Health Form:** Every applicant must complete the Student Health Form supplied by the University.

## Freshman Admission Requirements

Beginning freshmen may apply to the University up to one year in advance, preferably in the early part of the senior year. The entering freshman class is limited in number, and priority will be given to applicants whose records indicate the greatest likelihood of success in the lower division program. The Committee on Admission is responsible for administering admissions to this program.

### Requirements for Admission are:

1. Graduation from an accredited secondary school.
2. Twelve academic units in college preparatory courses.

3. An overall "B" average in academic courses.
4. A total score of at least 1000 on the SAT or a composite score of 23 on the ACT.
5. A record of good conduct.
6. A 500-word autobiographical essay.
7. A personal interview when required.

Lower Division applicants who do not meet the above minimum criteria will be reviewed by the Committee on Admission. Applicants who show potential in areas not easily evaluated by standard tests, can be considered for admission under the BOR 20 percent admission exception rule.

## Undergraduate Transfer Requirements

Degree-seeking applicants with less than 60 semester hours of transfer credits must satisfy the same admission requirements as beginning freshmen, and must demonstrate above satisfactory performance in previous college level studies.

Applicants who have completed an *Associate of Arts* degree at a Florida public community college, or have earned 60 semester hours of college credit at any other regionally accredited institution at an acceptable performance level, and have completed the general education requirements (or the equivalent), are eligible for admission to the University.

Applicants who have completed an *Associate of Science* degree, or have earned 60 semester hours of college credit at a Florida public community college with a GPA of at least 2.0, are eligible for admission to the University.

Applicants who meet the above admission requirements, but have not completed the remaining general education requirements, or the prerequisite courses for admission to a particular degree program, or both, may complete this preparatory work either (a) in the Colleges or the Schools of the University, (b) at a Florida public community college or accredited institution, or (c) by achieving a satisfactory score on the appropriate CLEP examination.

All transfer applicants to the Upper-Division from a public institution in Florida must present a score on the College Level Academic Skills Test (CLAST). All other Upper-Division transfers must take this test during their first term of enrollment.

## Requirements for Admission to Undergraduate Programs

The College of Technology normally regards the *Associate of Science* degree in an appropriate technical discipline as the full equivalent of the first two years (60 semester hours) of the *Bachelor of Technology* program.

In the School of Education, all applicants for teacher education programs must score at, or above, the 40th percentile on a standardized college entrance test, (i.e. 835 or above in the total score on the SAT, or 17 or above on the ACT). It is possible for an applicant who fails to meet this criterion to appeal the admission decision and be considered under the 10 percent waiver rule.

Undergraduate students majoring in non-business subjects will not be permitted to enroll

for more than 30 semester hours of business courses.

An undergraduate student who has been denied admission to a University degree program for *academic* reasons may appeal the decision by contacting respectively the Chairperson of the program, the Dean of the College or School, and finally, the University Committee on Undergraduate Admissions for recommendation to the Provost. If the denial for admission to the University is for other than academic reasons, the appeal must be directed to the University Registrar.

Effective September 1, 1976, all students entering a university in the State University System with less than 60 credit hours shall be required to earn at least nine credit hours prior to graduation, by attending one or more summer terms at a state university. University Presidents may waive the application of this rule in cases of unusual hardship to the student.

## Graduate Admissions

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

A student seeking admission into a graduate program of the University must have a bachelor's degree or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.

An applicant must, as a minimum, present either a 'B' average in upper level work, or a combined score of 1000 on the Graduate Record Examination, or a score of 500 on the GMAT when applicable and required by the individual department, or a graduate degree from an accredited institution.

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

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

Foreign graduate applicants are accepted subject to space and fiscal limitations. In addition to the above University admission requirements, foreign applicants must be academically eligible for further study in their own country, and must demonstrate proficiency in the English language by presenting a score of 500 or better on the TOEFL. For further information refer to International Admission section.

## Readmission

An admitted degree-seeking student who has not enrolled in any course at the University for more than one year, is eligible for readmission under the University and program regulations in effect at the time of readmission. Students must contact the Office of Admission to apply for readmission.





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

International student applicants must meet the admission requirements of the University and comply with the following:

**Application and Fee:** A completed admission application and a non-refundable \$15.00 (U.S. dollars) fee must be received by the Office of Admissions at least three months before the anticipated entry date.

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

**Proficiency in English:** Must be established if the native language is not English. The following is accepted:

- A minimum score of 500 in the *Test of English as a Foreign Language* (TOEFL). For information applicants should contact: TOEFL Program, Box 899, Princeton, New Jersey 08540, U.S.A.

- The ALIGU Test, (*American Language Institute, Georgetown University*), Washington, D.C. 20007, U.S.A.

- ELS Language Center certification of satisfactory completion at the 109 level of proficiency. For information contact: ELS Language Centers, 3331 Ocean Park Blvd., Suite 201, Santa Monica, Calif. 90405, U.S.A.

- Successful completion of 30 semester hours of coursework at an American college or university including six semester hours of English composition.

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

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

The total funds available to the student for the first or second academic year, or both, must

equal the total estimates of institutional costs and living expenses. All items in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing. This document must be received by the Office of Admissions two months prior to the anticipated entry date. If the applicant is residing in the USA, it is due at least one month before the beginning of classes.

**Health Insurance:** The University requires that all international students purchase health insurance 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, UH 340.

**Graduate Students:** Graduate applicants are required to take either the *Graduate Record Examination* (GRE) or the *Graduate Management Admission Test* (GMAT). For information on the tests write to Educational Testing Service, Princeton, New Jersey, 08540, U.S.A. Information about test center locations may also be obtained at the American Embassy in the applicant's home country.

**Tuition:** An international student is considered a non-resident and is assessed non-resident



fees. For an undergraduate (*lower division*) student, \$700.00 is the average tuition cost per semester, and \$1000.00 as an undergraduate (*upper division*) student. This average tuition fee is based on 12 credits, which is the minimum required credit hours for an undergraduate international student. For a graduate student, \$900.00 is the average tuition cost, based on nine credit hours per semester, which is the minimum required credit hours for a graduate international student. Immigration regulations require an international student to attend school at least two semesters within an academic year.

A married student should plan on an additional \$3,200.00 in costs to cover the living expenses of a spouse.

A couple with children should anticipate further yearly additional costs of no less than \$1,000 for the first child, \$800 for the second and \$600 for each additional child.

**Note:** Opportunities for financial assistance are limited for international students.

**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 terms, and to make satisfactory progress toward the degree program in each term; otherwise, the visa status may be jeopardized. Full-time enrollment is defined as enrollment every term in, and successful completion of, a minimum of 12 semester hours (undergraduate), and a minimum of nine semester hours (graduate).

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

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:

- Does not register at the University at the time expected.
- Does not carry a full course of study.
- Terminates attendance.

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

**Employment:** An F-1 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; but under very special circumstances, due to unexpected conditions or emergencies arising after the student's arrival, an international student may be recommended for a work permit. Adequate proof must be presented to the International Student Advisor to obtain the necessary recommendation. On-campus employment 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. *Under no circumstances should a student come to the University without hav-*

## Annual Estimate of Cost

### International Students

(Fees are subject to change without notice)

Single Student	Undergraduate (lower division)	Undergraduate (upper division)	Graduate
Tuition	\$2,265	\$3,153	\$2,970
Books and Supplies	480	480	480
Housing and Food	5,680	5,680	5,680
Transportation	700	700	700
Miscellaneous	1,125	1,137	1,170
<b>TOTAL</b>	<b>10,250</b>	<b>11,150</b>	<b>11,000</b>

ing received the official Letter of Admission and the I-20A Form.

All correspondence and document submissions should be directed to:

Office of Admissions  
Florida International University  
Primerica Casa 140  
Tamiama Trail  
Miami, Florida 33199 U.S.A.  
Tel: (305) 554-2363

## Undergraduate Studies

Academic advising of students with fewer than 60 semester hours of earned credits is the responsibility of the Office of Undergraduate Studies. When admitted to the University, the student is assigned to an advisor who will help plan the student's academic program. At the completion of 30 semester hours of earned credits, the student can choose an intended major, and after 60 semester hours, officially declare a major. Students with intended or declared majors will be advised by the student's major department.

Non-degree seeking undergraduate and graduate students are also advised by this office.

Academic information is available on a walk-in basis in PC 215, Tamiama Campus, and ACII-130 Bay Vista Campus.

## College Level Academic Skills Test (CLAST)

The State of Florida has developed a test of college-level communication and computation skills. The test is called the College Level Academic Skills Test (CLAST).

The CLAST is designed to test the communication and computation skills that are judged by state university and community college faculty to be generally associated with successful performance and progression through the baccalaureate level. The test is required by Florida statutes and rules of the State Board of Education.

The CLAST is administered toward the end of the sophomore year to university students as well as to community college students who are completing Associate of Arts degree programs and to community college students who are completing Associate of Science degree programs and are seeking admission to upper division programs in state universities in Florida. Students who do not take the test will not be

awarded the Associate of Arts, nor will they be admitted to upper division status in state universities in Florida. The CLAST requirements also apply to students transferring to state universities in Florida from private colleges in Florida and from out-of-state colleges.

Effective August 1, 1984, the State Board of Education will establish minimum CLAST score standards for the award of the Associate of Arts and for admission to upper division status in state universities in Florida. Prior to August 1, 1984, the use of CLAST scores is limited to student counseling and to curriculum improvement.

The counseling office is located in PC 215 Tamiama Campus, (305) 554-2892, ACII-130 Bay Vista Campus, (305) 940-5754, Office of Undergraduate Studies. The office will advise students on how and when to apply to take the CLAST, and will provide students with a list of CLAST skills, and where the communication and computation skills are taught in the curriculum.

## Lower Division Core Requirement

The Core requirement is for all students entering the University with fewer than 45 semester hours. Students transferring with 45 semester hours or more may opt to fulfill the University's General Education Requirements instead of the following:

- Writing Requirement: 12 sem. hrs.

The Gordon rule mandates that students take at least 12 semester hours of courses in which they are required to produce at least 6,000 words of written work in each course.

All students must satisfactorily complete six semester hours in expository writing within the first 30 semester hours of study. This requirement, along with the Philosophical Analysis and the Historical Analysis requirements (7 and 8), will enable the student to meet the Gordon Rule requirement.

- Mathematics Requirement: 6 sem. hrs.

All students must satisfactorily complete two 3-credit courses in mathematics within the first 60 semester hours of study. Students with substantial mathematical deficiencies can attend a non-credit remedial algebra class before taking the mathematics requirement. The entry-level course is Finite Math or Pre-Calculus. Qualified students may take a

higher-level math course after consultation with their advisor. The additional mathematics course may be chosen from approved courses which include, but not limited to, statistics and computer programming. Students who have passed Calculus I at the college-level will have met the mathematics requirement.

3. Language Requirement: 10 sem. hrs.

To satisfy this requirement, students may select one of the following options any time before graduation, preferably within the first 60 semester hours.

- a Two basic courses in any foreign language (10 semester hours).
- b A placement examination to assess mastery of a foreign language. The requirement will be waived if test results are equivalent to the level attained at the end of the two-course (10 sem. hrs.) sequence. Students who place below this level will be required to take courses necessary to attain such a level.

4. Natural Science Requirement: 8 sem. hrs. minimum

This requirement must include four semester hours of Biological Science with lab and four semester hours of Physical Science with lab. Any student whose major requires more than eight semester hours of Natural Science with lab is exempt from this requirement. The Natural Science requirement should be completed within the first 60 semester hours of coursework.

5. Social Science Requirement: 6 sem. hrs.

All students must take at least three semester hours of coursework in two of the following social science areas and complete them within the first 60 semester hours of study:

- Economics
- International Relations
- Political Science
- Psychology
- Sociology/Anthropology

6. Arts Requirement: 3 sem. hrs.

This requirement is met by one of the core courses selected from the following areas and completed prior to graduation:

- Literature
- Musical Art
- Theatrical Art
- Visual Art

7. Historical Analysis Requirement: 3 sem. hrs.

This course is designed to partially fulfill the Gordon Rule requirement and must be taken within the first 60 semester hours of study.

8. Philosophical Analysis Requirement: 3 sem. hrs.

This course is designed to partially fulfill the Gordon Rule requirement and must be taken within the first 60 semester hours of study.

9. World Prospects and Issues Requirement: 3 sem. hrs.

This requirement exposes students to aspects of the contemporary scene and examines vital problems and issues. Topics will vary every semester to focus on contemporary and critical issues. Students must complete 30 semester hours of study before enrolling in a World Prospects and Issues course.

## General Education Requirements

The Board of Regents has defined the General Education Requirements to consist of 36 semester hours. The University requires that all undergraduate students complete the 36 semester hours before graduation. The requirement consists of six semester hours each in the areas of humanities, mathematics, natural science, and social science; and 12 semester hours of English composition.

Following is a list of possible programs that can fulfill the General Education Requirements:

- English Composition: (courses fulfilling this requirement must require at least 6,000 words of assigned writing) Composition, Creative Writing or Expository Writing.
- Humanities: Art, Drama, Foreign Language, History, Literature, Logic, Music (non-performing), Philosophy, Religion, Speech, or West/East Civilization.
- Mathematics: (must be beyond College Algebra, one course may be in Computer Science) Analytical Geometry, Business Mathematics, Calculus, College Algebra, College Mathematics, Computer Science, Statistics, or Trigonometry.
- A grade of 'C' or higher shall be considered successful completion of this requirement.
- Natural Science: Astronomy, Biology, Botany, Chemistry, Earth Science, Environmental Science, Food Science, Geology, Geography (Physical Science), Physical Science, Physics, or Zoology.
- Social Science: Anthropology, Economics, Geography, International Relations, Political Science, or Sociology.

The following policies have been established:

- a student who has graduated from a Florida public community college with an *Associate of Arts* degree will have met the University's general education requirement;
- a student who has met the general education requirements of any institution in the State University System of Florida will have met the University's general education requirements;
- a student who has taken the freshman and sophomore years in an accredited college other than a Florida public community college or an institution in the State University System of Florida, may receive credit for courses meeting the University's general education requirements;
- a student may be admitted before completing 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 other arrangements designed to meet individual needs as noted in the section describing undergraduate admission standards.

## 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 requirement. Applicants should consult the catalog section dealing with the program they wish to pursue to determine the nature and extent of the additional requirements.

## Transfer Credit

An undergraduate applicant will receive credit for all previous academic work appropriate to the degree applied for, in accordance with the Articulation Agreement with Florida public community colleges, the standards of the academic department or program, and the limitations noted below. Although the actual awarding of transfer credit is done by the Office of Admissions, the final determination for credit accepted toward fulfilling degree requirements rests with the Dean of the College or School to which application is made.

Applicants from a four year institution may transfer up to 90 semester hours and those from a two year institution may transfer 60 semester hours toward a bachelor's degree. In individual cases, and at the discretion of the appropriate academic dean, a greater number of credit hours may be applied.

A grade of 'D' will be accepted for transfer, however, such a grade in coursework in the major field is subject to review and approval by the appropriate academic department.

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

Credit from military schools will be transferred 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 applicable toward the degree 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.

## Credit For Non-College Learning

**Undergraduate** — The awarding of credit for learning acquired outside of the university or classroom experience is the prerogative of each academic department or program. Only the degree-seeking student is eligible to receive this type of credit. The significant learning 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 experiential learning.



In cases where a student's learning experience would appear to have been sufficient to develop the understanding and skills associated with a course that would otherwise be included in his graduate program of study, he or she will be allowed to register for Independent Study credits and demonstrate competency through development of an appropriate project acceptable to the faculty member who represents that specific area of specialization. Not more than 10 semester hours of a 30 semester hour master's degree, nor 15 semester hours of a 60 semester hour master's degree, may be so earned. A student wishing to have this policy waived, wholly or in part, may petition the Dean of the academic unit to which he or she has been admitted for special consideration and final responsibility for a decision will rest with the Dean.

## Premedical Advisement

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

Students are advised to contact the Committee at the earliest possible time, preferably the Fall term prior to the academic year in which they will apply to the professional schools. The office of the Premedical Advisement and Evaluation Committee is in the Department of Physical Sciences, OE 200; 554-2605, Tamiami Campus.

## Pre-Law Advisement

Students interested in receiving information on pre-professional education, on application procedures, testing, and references should contact the Department of Political Sciences in the College of Arts and Sciences or the Department of Criminal Justice in the School of Public Affairs and Services. A faculty advisor in the department will advise students who plan to attend law school.

## Faculty Scholars Program

Outstanding high school graduates are selected each year for the distinguished Faculty Scholars Program.

The program provides scholarship aid and a rigorous academic curriculum for full-time lower-division students. Scholarships are awarded solely on academic merit and are renewed through the sophomore year contingent upon the student maintaining a minimum 3.5 GPA. At the end of the sophomore year Faculty Scholars will be eligible to apply to the upper-division University Scholars.

To meet the eligibility criteria, applicants must have:

- Outstanding high school performance; a minimum academic average of 3.5 in a college preparatory curriculum for the 9th, 10th, 11th, and 12th years.
- A minimum score of 600 on each section of the SAT or a total score of 25 on the ACT.
- Two recommendations by high school guidance counselors or teachers, or both.

- A 500 word autobiographical essay submitted with the application.
- A personal interview with the Faculty Scholar Director or designee.

Faculty Scholars will have to complete the Lower-Division Core Curriculum and enroll in an honors course their first term. Students must maintain an overall 3.5 GPA.

For more detailed information, interested applicants should contact the Faculty Scholars Program, PC 215, (305) 554-2893, Tamiami Campus, ACII-130, Bay Vista Campus, (305) 940-5754.

## University Scholars Program

The University Scholars Program offers scholarships aid for outstanding full-time students. Scholarships are awarded on merit and recipients do not have to demonstrate financial need.

Applicants must meet the following criteria:

- Be full-time Junior students.
- Have completed at least 30 hours of lower-division course work at the University.
- Have maintained an overall 3.5 GPA in the lower division course work.

Any student who meets these criteria and elects to write a Senior Thesis may be designated a University Scholar. Only the top 25 will receive the scholarship.

Topics for the Senior Thesis must be chosen before the end of the student's Junior year. The research project will be conducted under the supervision of faculty mentors.

University Scholars' transcripts are reviewed each semester since renewal of scholarship is contingent on maintaining an overall 3.5 GPA.

For more detailed information, students should contact the University Scholars Office, PC 215, (305) 554-2893, Tamiami Campus, ACII-130, Bay Vista Campus, (305) 940-5754.

## 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 credits.

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

*Note:* A student who desires additional information on CLEP should contact the Office of Admissions.

## Lower Division CLEP and Advanced Placement

The University recognizes CLEP at the 50% level and Advanced Placement at levels 3, 4, and

5. For lower division students completing the core curriculum requirements, only the following exams can substitute for core requirements. Other exams will be recognized for elective credit. It is strongly recommended that CLEP exams be taken prior to enrollment at FIU.

### CLEP GENERAL EXAMS

English (with composition) will fulfill only the first English Composition requirement. A second English Composition course will be required.

### CLEP SUBJECT EXAMS

American Literature  
Analysis and Interpretation of Literature  
Calculus  
English Literature  
General Biology  
General Chemistry  
General Psychology  
Introduction to Sociology  
Macro-Economics  
Micro-Economics  
Modern Language

### ADVANCED PLACEMENT

Biology  
Calculus  
Chemistry  
English (will fulfill only the first English Composition requirement)  
Modern Language  
Physics

General Examination Test .....CLEP

• *English Composition with Essay* — a student will be awarded up to six semester hours credit for English less hours previously earned in any college level English course, if a minimum score of 610 is achieved.

• *Humanities* — a student will be awarded up to six semester hours of credit if a minimum scaled score of 489 is achieved.

• *Mathematics* — a student will be awarded up to six semester hours of credit if a minimum scaled score of 497 is achieved.

• *Natural Science* — this test is divided into two parts, biological and physical science. If a minimum subtest score of fifty is achieved in biological science, three semester hours will be awarded. If a minimum subtest score of forty-nine is achieved in physical science, three semester hours will be awarded. If a total score of 489 is achieved, six semester hours will be awarded.

• *Social Science* — a student will be awarded six semester hours of credit if a minimum scaled score of 488 is achieved.

For additional information regarding the CLEP Subject Exams, please contact the Office of Admissions.

*NOTE:* CLEP for students admitted with less than 45 hours of transfer credit, refer to "CLEP and Advanced Placement for Lower Division."

## School and College Relations

The School and College Relations program, located in the Office of Admissions, interacts with prospective students, and assists them with transfer needs and the admission process. It





coordinates the distribution of academic program materials and information from university units to community college personnel, prospective students, and to all interested persons.

The School and College Relations program serves as a focal point for persons interested in expanding the University's constituency and coordinates special efforts designed to embrace the recruitment of Blacks, Hispanics, women and senior citizens.

### **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.

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## **Office of Registration and Records**

The Office of Registration and Records is responsible for directing the University Registration activities, establishing, maintaining, and releasing students' academic records. The office is also responsible for space and scheduling, Veteran's Affairs, and providing academic advising support.

The Tamiami Campus office is located in PC 130, and the Bay Vista Campus office is located in ACI-160.

Questions regarding registration, transcripts, grades, and graduation should be directed to this office.

### **Classification of Students**

Students are classified by the Registrar's Office as follows:

**Freshmen**—Students who have earned less than 30 semester hours.

**Sophomores**—Students who have earned at least 30 semester hours but less than 60 semester hours.

**Juniors**—Students who have earned at least 60 semester hours but less than 90 semester hours.

**Seniors**—Students who have earned 90 or more semester hours but have not earned a baccalaureate degree.

**Post-baccalaureate**—Students who have earned a baccalaureate degree and who are enrolled in graduate level courses but not yet admitted to a graduate program.

**Graduate**—students admitted to a graduate program.

**Non-Degree Seeking Students**—To meet the needs of the Southeast Florida area the Univer-

sity has established the non-degree seeking student classification. This classification includes students enrolling prior to completing the requirements for formal admission and students not wishing to pursue a degree program. The following regulations will apply to non-degree seeking students:

a. Such students are not required to meet the usual admission requirements and are not officially admitted as regular students. *Enrollment as a non-degree seeking student does not imply a right to future admission as a regular, degree-seeking student.* Credit earned will not be counted toward a degree at the University unless such student subsequently applies for regular admission and is accepted as an undergraduate or graduate student.

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

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

d. Non-degree seeking students will not be allowed to register for more than 15 undergraduate level or 12 graduate level semester hours without:

1. Obtaining admission to a degree program at the University.

or

2. Obtaining special permission in writing from the department in which they are registering, indicating the specific courses in which they are allowed to enroll.

or

3. Obtaining admission into a formal Certificate Program.

e. Applicants denied admission to the University as degree-seeking student will not be permitted to enroll as non-degree seeking students in the same program for a period of one year.

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

## College/Major Classification

a. Degree-seeking upper division students admitted to an upper level program are classified according to the college and major of their degree program (and the college and major, of their second major, if applicable).

b. Lower division students will have a college designation of lower division with a major designation of their intended major (if indicated by the student). This does not imply subsequent admission to that degree program.

c. When an admitted student reaches a total of 60 or more credit hours (including transfer

and current enrollment) he may apply for admission into an upper division major. All degree-seeking undergraduates must be admitted into an upper division major prior to completing 75 credit hours (including transfer credit).

d. Graduate students will be classified according to the college and major of their degree programs.

### Course Loads:

	<i>Undergraduate</i>	<i>Graduate</i>
Full-time	12	9
	semester hours	semester hours

## Academic Degree Requirements

1. Bachelor's Degree—The University will confer the bachelor's degree when the following conditions have been met:

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

b. Certification by the Dean of the College or School concerned that all requirements of the degree being sought have been completed.

c. Successful completion of a minimum of 120 credit hours.

d. Completion of the last 30 credit hours at the University. Exceptions, (normally not to exceed 6 hours) may be made in advance by the appropriate Dean.

e. Completion of the general education requirements or, in the case of students admitted with less than 45 transfer hours, the lower division core curriculum.

f. An earned grade point average of 2.0 or better at the University.

g. The grade requirements for major, core courses or course sequences, established by the appropriate School or College.

2. Master's Degree—The University will confer the master's degree when the following conditions have been met:

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

b. Certification by the Dean of the College or School concerned that all requirements of the degree being sought have been completed.

c. Earned an overall 3.0 average in all courses.

d. The grade requirements for major, core courses, or course sequences, established by the appropriate School or College.

3. Two Bachelor Degrees—Two bachelor degrees may be awarded simultaneously when the following conditions have been met:

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

b. A minimum of 30 appropriate semester hours in addition to the requirements of one degree has been earned.

c. A graduate from an accredited four-year institution who applies for admission to

work toward a second bachelor's degree must meet the requirements of the major department which shall include (but is not limited to) a minimum of 30 semester hours of course work.

4. Two Majors for Bachelor's Degree—Any undergraduate student who elects to do so, may carry two majors and work to fulfill the requirements of both concurrently.

a. Upon successful completion of the requirements of two majors, a student will be awarded only one degree unless a minimum of 30 appropriate semester hours, in addition to those required for the degree, have been earned.

b. In cases where the requirements of two majors have been met and only one degree is involved, a notation denoting both majors will be entered on the transcript.

5. Minors and Certificate Programs

a. Students who have completed an approved minor as part of their baccalaureate degree program will have this notation as a part of the degree comment on their transcript.

b. Students who have completed an approved credit Certificate Program will have an appropriate notation placed on their transcript.

6. Associate of Arts

Students who satisfactorily complete 60 semester hours of acceptable college work with an overall of 2.0 or above GPA, fulfill the Lower Division core requirements, and complete at least 20 credit hours in residence at FIU, may apply for the Associate of Arts degree. The Associate of Arts degree will not be awarded after completion of the baccalaureate degree.

## 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 term.

**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 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 arrangement 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 Colleges 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 Colleges 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.

**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 a bachelor's degree.

**Certificate in Continuing Studies** — 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 ONE degree unless a minimum of 30 appropriate semester 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. A Request for Second Major form must be filled out in the Office of Registration and Records if a student is declaring two majors.

**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 30 appropriate semester hours in addition to the requirements of one degree has been earned.
- 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 30 semester hours of course work, as well as any other University-wide graduation requirements.

**Change of College/Major** — A fully admitted undergraduate student can change majors, providing he meets the entrance requirements of the new program, by submitting a Request for Change of College/Major form. The form and directions are available in the Office of Registration and Records. The student is subject to the program requirements in effect at the time of the change of major.

A fully admitted graduate student can change majors, providing he meets the entrance requirements of the new program, by obtaining and submitting the form to the

Office of Admissions. The student is subject to the program requirements in effect at the time of the change of major.

## Registration

The following Registration information is subject to change, please verify dates with the Office of Registration and Records PC 130, Tamiami Campus, Al 160, Bay Vista Campus.

Registration for courses is as follows:

1. Registration Week is held during the preceding semester (check the Academic Calendar for dates) and ends one week later. Currently enrolled degree-seeking students are given an appointment day based on their classification and credit hours completed. Students may not add and drop courses at this time.
2. Open Registration is held immediately following Registration Week and lasts for two weeks only. There is no appointment time and registration is on first-come first-serve basis. All students who have not yet registered are encouraged to do so at this time. Students who have already registered may add or drop courses during this period.
3. Registration Day is held two days before the beginning of the term and is for one day only. Students who have not registered should do so at this time to avoid a Late Registration Fee.

## Late Registration Fee

Any student, degree-seeking or non-degree seeking, who initiates registration after Registration Day is assessed a \$25.00 Late Registration Fee. A Student may initiate late registration up to the third week of the semester with all appropriate signatures and all applicable late fees.

## Dropping and Adding Courses

Official Drop/Add period begins on the first day of classes and ends on Friday the second week of classes. During this period a student may:

- add courses or register with a Late Registration fee.
- drop courses or withdraw from the University with no records kept of the courses and without a tuition fee liability. If the tuition fee has already been paid, the student must fill out a Refund Request Form with the Cashier.

## Late Drops

Courses officially dropped after Drop/Add period and through the eighth week of the term are recorded on the student's transcript with a symbol of DR (dropped). The student is financially liable for all dropped courses.

Non-attendance or non-payment of courses will not constitute a drop. Students must notify the Office of Registration and Records of dropped courses by submitting a Course Drop Form.

## Grading System

Grades	Definition	Grade Points Per Credit Hour
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
P	Satisfactory (Pass)	N/A
IN	Incomplete	N/A
WI	Withdraw from University	N/A
AU	Audit	N/A
DR	Dropped Course	N/A
*NR	Grade Not Reported or Invalid	N/A
EM	Examination	N/A

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

\*NR is only a temporary symbol. It will default to an F after two terms.

## Grading Option

The College or the School makes the determination of the grading option of each course. A course may be offered either for a Letter Grade—the student will receive A, B, C, D, or F; or Pass/Fail—the student will receive a P for pass, or F for Fail; or Optional Grade—the student has a choice of either receiving a Letter Grade or Pass/Fail. The Option Grade must be indicated at the time of registration and cannot be changed after the Drop/Add Period. There are no exceptions to this deadline.

Audit grading option means that no grade is assigned and an AU will be recorded on the transcript. To register for an Audit, the student must obtain the permission and signature of the instructor of the course audited. This option cannot be changed after the Drop/Add period. There are no exceptions to this deadline.

## Incomplete Grade

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

## Repeated Courses

A student who repeats a course must file a Repeated Course Form with the Office of Registration and Records. The form must be filled out and submitted after a grade has been received for the course being repeated. All courses taken with the grades earned will be recorded on the student's transcript.\* Repeated courses will be appropriately designated (T: attempted, R: last



repeat) with only the last repeated course grade calculated in the G.P.A. regardless of last grade earned. A course must be repeated with the same grading option.

\*The repeated course form will not be processed if the first and repeated grade received is DR, WI, AU, NR or EM.

## Departmental Credit by Examination

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

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

## Change or Correction of Grades

Once submitted, end-of-semester grades (except incompletes and NRs, which default to F at the end of two terms) are final and are subject to change *only* through a *Change of Grade Form* to correct an error in computation or 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-semester grade to the Office of Registration and Records.

## Final Examinations

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

## Grade Reports

At the end of each semester, the Office of Registration and Records mails each registered and paid student a copy of his or her grades. Copies of the grades are not available. If needed, a student must request a transcript.

## Dean's List

Any undergraduate student who earns a semester average of 3.5 or better on six or more hours of course work for which grade points are earned, is placed on the Semester Dean's List. This achievement is noted on the student's semester report of grades and permanent academic record (transcript).

## Application for Graduation

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

## Academic Honors (Undergraduate)

To graduate with *honors* a student must have earned a cumulative GPA between 3.500-3.749.

To graduate with *high honors* a student must have earned a cumulative GPA between 3.750-3.999.

To graduate with *highest honors*, a student must have earned a cumulative GPA of 4.0.

To graduate with the above honors, the student must have completed forty semester hours at the University since the Fall of 1975.

## 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 semester GPAs fall below a 2.0 (undergraduate) or 3.0 (graduate) will be automatically dismissed from his/her program and the University. No undergraduate student shall be dismissed if his GPA remains above the graduation requirement of 2.0 and prior to attempting a minimum of 20 semester hours of course work. No graduate student will be dismissed if his GPA remains above the graduation requirement of 3.0 and prior to attempting a minimum of 12 hours of coursework as a graduate student. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the Dean of the College/School in which the student is enrolled. If the student's appeal is denied, courses registered for will be deleted. The dismissal from the University is for a minimum of one year. After one year, the student may apply

for readmission (see Readmission) to the University in the same or a different program, or register as a non-degree seeking student. There are no exceptions to the one year waiting period.

## Withdrawal from the University

A currently registered student can only withdraw from the University during the first eight weeks of the semester. In the summer semester withdrawal deadlines will be adjusted accordingly. A Withdrawal Form must be filled out and submitted to the Office of Registration and Records.

A student who registers for a particular semester and subsequently decides not to attend, or leaves during the first eight weeks of the semester must officially withdraw from the University. Dropping all courses registered for is equated to a withdrawal and a Withdrawal Form must be filled out instead of a Drop/Add Form.

The transcript record of a student who withdraws during the Drop/Add period will contain no reference to the student being registered that semester and no tuition fee is assessed. If the tuition has already been paid, a Refund Request Form must be filled out with the Cashier's Office. If a student withdraws from the University prior to the end of the fourth week of classes a 25% refund, less a bonding fee, will be made.

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

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

## 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 Registration and Records and in the academic department of the student's major. As a rule, all currently enrolled and former students have the right to review their records to determine 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.

## Transcripts

The transcript is the complete student record of courses taken at FIU, plus the number of transfer credits accepted. The GPA is calculated for all courses taken at the University after Fall

term 1975 whether the courses are in the major program or not. Once a degree is posted, the GPA recalculation starts again.

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

## Class Attendance

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

## Veterans Information

The Office of Veterans Affairs assists all veterans and their dependents who wish to receive V.A. educational benefits. The Office also provides personal counseling, fee deferments, tutorial assistance, and work-study jobs. The V.A. Office is located in PC 130 at the Tamiami Campus and in ACI-160 at the Bay Vista Campus.

Veterans who are planning to attend the University should contact the Office of Veterans Affairs two months prior to the date of entry in order to expedite the processing of paperwork required to obtain educational allowances from the Veterans Administration.

## Status Certification

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

TRAINING STATUS				
	<i>Undergraduate</i> 12 Sem. Hours	<i>Graduate</i> 9 Sem. Hours		
Full time				
3/4 time	9 Sem. Hours	7 Sem. Hours		
1/1 time	6 Sem. Hours	5 Sem. Hours		
Less than 1/2 time	5 Sem. Hours	4 Sem. Hours		
RATE OF PAYMENT				
	<i>No</i> <i>Depen-</i>	<i>1</i> <i>dent</i>	<i>2</i> <i>Depen-</i>	<i>Each</i> <i>Additional</i> <i>Depen-</i> <i>dent</i>
Full time	\$342.00	\$407.00	\$464.00	\$29.00
3/4 time	\$256.00	\$305.00	\$349.00	\$21.00
1/2 time	\$172.00	\$203.00	\$231.00	\$14.00
Less than 1/2 time	Cost of Tuition			

# Financial Information

## The 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 twelve-month 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 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 non-immigration 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.



(c) A student certified by his respective state for participation in the Academic Common Market Program of the Southern Regional Education 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 organization.

(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 education 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 contractual 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.

## Financial Aid

The University adheres to the philosophy that a student is entitled to a college education regardless of his or her financial condition. The Office of Financial Aid is located on the Tamiami Campus in Primera Casa Room 125; and in Academic One Room 186 at the Bay Vista Campus.

Financial Aid programs available to students includes scholarships, grants, loans, and employment. Grants, loans, and part-time employment are provided individually or a combination of all three in a "package." Awards are based on need, and individual attention is given to each applicant.

The University participates in the National Direct Student Loan Program, the College Work-Study Program, the Florida Student Assistance Grant Program, the Supplemental Education Opportunity Grant Program, the College Career Work Experience Program, the Florida Academic Scholar's Program, and the Pell Grant Program (formerly the Basic Grant).

Forms for the Guaranteed Student Loan (GSL) and the Auxiliary Loan to Assist Students (PLUS), a type of transaction between local lenders and the applicant, are also processed through the Office of Financial Aid. There is a six month grace period before the student assumes payment of the GSL. The government pays the interest while the student is in school and during the grace period on all eligible GSLs. The interest rate on all PLUS is 14 percent, however, this may vary according to the rate on treasury bills. The repayment begins within 60 days of the loan's disbursement date.

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 January for the following Fall Semester and academic year. To receive priority consideration, a student must apply by the deadline established by the Financial Aid Office. A student should apply for Financial Aid as soon as possible, and should not wait until admitted by the Office of Admissions.

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

1. Complete a Family Financial Statement (FFS) packet and the Student Data Form and mail both directly to the American College Testing (ACT) Program in Iowa City. They will perform a need analysis on the student's application and will return a computerized version to FIU. This analysis will then be evaluated to determine financial need.
2. Submit Financial Aid Transcripts of all previously attended post-secondary educational institutions, whether or not financial assistance was received.
3. A Financial Aid Request Form must be completed and returned to the Financial Aid Office.
4. All applicants must submit a copy of their 1982 Income Tax Report to the Financial Aid Office. Dependent students must submit their parents' 1982 Income Tax Report for the 1983-84 academic year.

In accordance with guidelines set by the Department of Education, all students receiving Federal financial aid must be making satisfactory progress toward the completion of a degree. The Financial Aid Office defines measurable academic progress for all students who received financial aid in the previous year as follows:

1. Completion of 12 credit hours in 1 semester,
2. Twenty-four credit hours in two semesters,
3. And/or 36 credit hours in three semesters, with a cumulative grade point average of 2.0 minimum.

New financial aid applicants will also be required to have a 2.0 minimum GPA in order to receive financial aid. One semester of aid may be awarded while the student makes up minimum requirements.

Failure to meet these requirements will render the student ineligible for financial assistance for the subsequent year.

Grant monies will not be available for students who have completed the necessary coursework to obtain a Bachelor's Degree.

No aid will be awarded if the student has any outstanding debts with the University unless prior arrangements for payment are made.

Students are expected to apply for the (FSAG) Florida Student Assistant Grant program if they meet the following criteria: Citizens or permanent residents of the US, who have resided in or had domicile in Florida for at least 24 consecutive months preceding the beginning of the academic year for which application is submitted. The deadline for applying is April 1, 1983.

Opportunities for financial aid are limited if a student does not meet residency requirements in accordance with Federal guidelines. (Check in-

structions on residency before filing for assistance).

Students who drop below full-time status or withdraw may be required to repay a portion of their awards according to the Refund-Repayment Policy of the Financial Aid Office.

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.

## Cashier's Office

The 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.

## Fees

Fees are established by the Board of Regents as approved by the State Legislature and are subject to change without notice. If fee waiver is used as part of the fee payment, the original and student copy must be presented to the Cashier's office at the time of payment—on or before the last day to pay fees.

	Florida Residents	Non-Florida Residents
Lower Level Undergraduate Courses	\$25.00 per sem. hr.	\$66.00 per sem. hr.
Upper Level Undergraduate Courses	\$28.00 per sem. hr.	\$91.00 per sem. hr.
Graduate Level Courses	\$38.00 per sem. hr.	\$110.00 per sem. hr.
Graduate Thesis & Dissertation	\$41.00 per sem. hr.	\$113.00 per sem. hr.

Audit registration fees are the same as the above fees, except no assessment will be made for the out of state portion.

The dates by which these fees must be paid for each academic period may be obtained from the University Cashier's Office. If fees are not paid in full by published dates, all courses will be cancelled and any money collected will be lost. Current fee information can be obtained from the University Cashier's Office.

\*Note: Registration is not complete until fees are paid in full. Fees are subject to change without notice.

## Sundry Fees

Application fee — (non-refundable)	\$15.00
Parking fee — (non-refundable) Annual fee applicable to all persons operating or parking a motor vehicle on campus:	
Faculty/Staff	\$12.50
Student	7.50
Runway	5.00
Duplicate/Second Vehicle	1.00
Health Fee — (non-refundable) Assessed to all students except those enrolled only in off campus or external degree programs.	\$13.50



Library Fines — per book or unit per day	.25
Overdue Reserve Books — per book per library hour	.25
Late Registration Fee — (non-refundable) Assessed all students who register after official registration period or fail to pay full fees by the established deadline. (See Academic Calendar for dates)	\$25.00
Late Payment Fee — (non-refundable) Assessed to all students whose registration has been cancelled for nonpayment of fees, who petition for reinstatement before the established deadline (see Academic Calendar for date). This fee is in addition to the late registration fee.	\$25.00
Intern Certificate of Participation	\$3.76 per hr.
ID Card Replacement	1.00

\*Note: These fees are subject to change without notice. Additional fees may be added at any time.

## Checks

The University will accept personal checks for accounts due to the University. These checks must be for the exact amount due only. The University Cashier will under no circumstances cash checks above amount due or for cash. The University is required to collect a service fee for any check, or order which may be returned by the bank for any reason.

## Refunds

A full refund of fees will be made if a student withdraws completely from the University prior to the end of the drop/add period. If the University cancels a course, a full refund of fees paid will be made for that course.

For students who have completed registration and have paid fees due, a refund of 25% of total fees paid less a bonding fee will be made if the student totally withdraws from the University prior to the end of the fourth week of classes.

In the following exceptional circumstances a full refund of fees paid less a bonding fee will be made upon presentation of proper documentation:

Death of a Student—Death certificate required. Involuntary call to military duty—Copy of orders required.

Refunds will be made upon receipt of a proper application through the Cashier's Office.

## Past Due Accounts

All student accounts are due and payable at the Cashier's Office, Room 120 Primera Casa on the Tamiami Campus, or Room 140 Academic 1 on the Bay Vista Campus, when the charges are incurred.

Delinquent accounts will be considered sufficient cause to prohibit registration, graduation, release of transcripts, or release of diplomas for students.

The University is not able to grant credit or time payments for any fees. Financial aid is available to 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 fee payment due dates.

## Academic Affairs

The Office of Academic Affairs is responsible for planning, organizing, and administering the instructional programs of the Colleges and Schools of the University. The Office also supervises academic support programs such as, Academic Computer Services, Continuing Education, Elder's Institute, Faculty Scholars Program, International Affairs Center, International Banking Center, Library, Media Services, Sponsored Research and Training, University Scholars Program, Visual Art Gallery, and Women's Studies Center.

Areas that provide direct service to students outside the classroom, have an impact on the instructional programs, and report to the Office of Academic Affairs are: Office of the Registrar (Office of Admissions and School and College Relations, Office of Financial Aid, and Office of Registration and Records), Office of Cooperative Education and Placement, Office of Undergraduate Studies, Office of Advanced Studies.

The chief academic officer is the Vice President for Academic Affairs, who is responsible for all the academic units. He also serves as liaison to the Florida Board of Regents for academic matters. As a member of the University Executive Staff, he provides leadership in the overall planning and direction of the University. (For detailed information on the Elder's Institute, International Affairs Center, International Banking Center, and Women's Studies Center, refer to Center and Institutes; for Faculty and University Scholar Programs, refer to Admissions section).

## Office of the Registrar: Admissions, Financial Aid, Registration and Records

The University Registrar is responsible for the Office of Admissions and School and College Relations, the Office of Financial Aid, the Office of Registration and Records, Veteran's Affairs, and the related data entry — data control functions. These areas function as an inter-related unit responsible for the orderly and timely admission of students, evaluation of transfer credits, the provision of financial aid to students who can benefit from higher education but cannot do so without some assistance, and dissemination of information about the academic programs of the University. It is in these offices that the student academic record is created, maintained, and preserved, and transcripts of the academic record sent. Registration for classes, including the dropping or adding of courses, is a function of Registration 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.

## Office of Undergraduate Studies

The Office of Undergraduate Studies is responsible for undergraduate program activities that span more than one academic unit. Included in those activities are advising, CLAST counseling and academic preparation, Faculty Scholars, University Scholars, General Education and Core Curriculum requirements, and ROTC. The office is located in PC 215 on the Tamiami Campus and AC11-130 on the Bay Vista Campus.

## Office of Advanced Studies

The Office of Advanced Studies is responsible for coordination and development of university planning, policies, procedures, and evaluation related to advanced studies and research. It is located in PC 521A on the Tamiami Campus and TC 216 on the Bay Vista Campus.

## Academic Computer Services

Academic Computer Services supports the instruction and research computing needs of the students and faculty on both the Tamiami and Bay Vista campuses. The professional staff provides consultation services on computer-related problems and data analysis, computer laboratory services and facilities, computer program conversions and implementation, coordination with Computer Operations on remote job entry processing, and coordination with the Southeast Regional Data Center (SERDAC) on Univac software and systems support.

The computer laboratories on each campus contain interactive teleprinters and video terminals, keypunches, documentation racks, access to plotting devices, and microcomputers. The large scale host computer for academic computing is the SERDAC Univac 1100/81.

## Career Placement

The Career Placement Department, UH 340 at Tamiami and SC 264 at Bay Vista, 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 semester in learning effective communication techniques for interviews with employers, resume writing, letters of introduction and application, and developing interviewing techniques and skills.

The Career Placement Department maintains notebooks which list opportunities for part-time, full-time, and summer employment. The Department also uses bulletin boards to post information on employment vacancies and careers. A computerized career information and guidance support system is available.

## 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.



## Cooperative Education

Cooperative Education allows students to alternate semesters of full-time paid employment, for which academic credit is earned, with semesters 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 SC 264 at Bay Vista Campus.

## Libraries

The University Libraries are housed in the Athenaeum on the Tamiami Trail, and in temporary quarters in the Trade Center Building at the Bay Vista Campus.

The total library collection comprises 550,000 volumes. In addition to substantial holdings of federal, state, local, and international documents; maps; microforms; music

scores; newspapers; institutional archives; and curriculum materials. The Library subscribes to 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 classification systems and have separate public catalogs.

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

## Consortium Library Privileges

Currently registered students, faculty, and staff may use the libraries of any of the nine campuses of Broward and Dade Community College, FIU, Biscayne College and Nova University.

Students can apply for, and at the discretion of the lending library, obtain a pass that will give them library charge privileges at all Consortium campuses. This involves obtaining a CLASS card at one of the FIU libraries and presenting it to the library where privilege is desired. Students may also borrow materials from any of the consortium campuses through inter-library loan by presenting a current valid fee receipt or student ID.

Faculty and staff may also check out materials at any campus library of the consortium by presenting a current valid staff identification.

## Media Services

Media Services provides instructional media services to faculty, staff, and students.



The services offered are encompassed by five departments:

1. Equipment Distribution provides a large variety of audiovisual equipment for use by the University.
2. Graphics prepares all kinds of artwork, graphs, illustrations, charts, and posters, for faculty and staff.
3. Faculty/Student Production Center provides an audiovisual lab area and instruction in the use of audiovisual equipment for faculty and students to produce a variety of audiovisual aids on their own.
4. Photography provides photographic services to faculty and staff for educational and publicity purposes.
5. Learning Resources produces multi-media programs (video tapes, films, slide tapes) for faculty and staff.

All of these departments are located on the Tamiami Campus. The Bay Vista Campus Media Center maintains an Equipment Distribution Department and limited production facilities for the campus. Services not available on the Bay Vista campus can be obtained through the appropriate office on the Tamiami Campus.

## Consortium Media Privileges

Faculty, staff, and students can use the audiovisual services on any campus of the Consortium. A-V materials and equipment cannot be borrowed.

## Division of Continuing Education

Strongly committed to meeting the educational, professional, and social needs of the community, the Division of Continuing Education strives to extend the resources of the University beyond the confines of classroom and laboratory. Through creative programming, innovative research, and community-oriented activities, the varied units within the Division serve a widely heterogeneous population. The Division is headquartered on Bay Vista Campus, Academic One, Room 100, with additional services and facilities on Tamiami Campus, in Primera Casa, Room 248.

Administered through the Office of Academic Affairs, the Division of Continuing Education is composed of the following units: Department of Conferences, Department of Off-Campus and Weekend Credit Courses, The State University System External Degree Program, and the Small Business Development Center. (For details on SBDC refer to Center and Institute section).

## Department of Conferences

The Department of Conferences is the University unit responsible for planning, developing, and initiating non-credit conferences, seminars, symposia, workshops, and short courses. For detailed information concerning program offerings call 940-5648.

## Department of Off-Campus and Weekend Credit Courses

The Department of Off-Campus and Weekend Credit Courses offers a broad range of courses at locations in Dade, Broward, and Monroe counties. These courses are available to students who have been admitted to the University and are pursuing degree programs as well as to students who only wish to enroll in a specific course or courses. Fees for off-campus credit courses are the same as for on-campus courses.

Advance registration for off-campus courses is accomplished in the Department of Off-Campus and Weekend Credit Courses, Bay Vista Campus, Tamiami Campus, or by mail on a form provided by the Department. Students may also register at the first class meeting or prior to the second class meeting.

For information on how to request a course or to find out more about educational opportunities available through the Department, call 940-5643 in Dade, and 467-1077 in Broward.

## The State University System External Degree Program

The External Degree Program was established by the Board of Regents in 1972. The program provides flexible undergraduate degree programs utilizing an educational contract with the following components:

1. Transfer Credit: The External Degree Program is designed for students who have completed two years (or equivalent) of college level work.
2. Prior Learning Credit: Learning from prior non-college experiences may be translated into college credit.
3. Directed Individualized Learning: Students may satisfy a portion of the degree requirements by undertaking individualized study with University faculty.
4. Formal Coursework: Students complete a portion of the degree work either through regular on-campus classes or by completing faculty-developed course modules off-campus.

The State University System External Degree Program is a statewide program which allows residents of Florida to take advantage of educational facilities throughout the State.

In addition to regular tuition charged for the necessary course work to complete a degree program, an External Degree student is assessed a yearly fee of \$200.

For additional information concerning the program, please call 940-5664.

## Legal Assistant Program

The primary purpose of the Legal Assistant Program at the University is to develop occupational competence. With both the practitioner and student in mind, the program offers a combination of substantive courses and practical seminars which can lead to continuing education units for the working legal assistant and a certificate of competence for aspiring legal assistants.

Structured as a non-credit program, consisting of 8 courses and 12 one day seminars, the

Legal Assistant Program requires that each student master certain fundamental concepts necessary for competent performance within a professional legal, government, or business environment. Attainment of the status of Certified Legal Assistant (CLA) is encouraged as a goal for program participants.

Students accepted into the Legal Assistant Program are not by reason of this acceptance admitted to any other credit or degree program at Florida International University. For additional information, contact the office of Continuing Education, Bay Vista Campus, ACI-100, 940-5683, Tamiami Campus, PC 248, 554-2490.

## Independent Study by Correspondence

For many reasons, students encounter roadblocks in their academic paths—conflicts with other classes or with outside responsibilities, closed courses, periods of illness, or travel away from home, or semesters spent working. Others may wish to take elective courses over the summer, or repeat courses to improve their grade point averages. The solution to these and dozens of other individual problems is often independent study by correspondence.

The State University System of Florida offers a program of over 140 such university courses, with instructors drawn from the University of Florida, Florida State University, and the University of South Florida. All courses are numbered according to Florida's common course numbering system, which makes them immediately translatable in terms of degree programs at this university. Through the Department of Independent Study by Correspondence of the Division of Continuing Education of the University of Florida, credit course opportunities are offered.

Essentially, these correspondence courses consist of a study guide that contains lessons that parallel the on-campus courses, plus textbooks and, in some cases, other learning aids such as tapes, maps, slides, etc. Each lesson corresponds to a few days or a week in the classroom; the study guide makes assignments that must be mailed to the Department of Independent Study by Correspondence for critique and grading. Most courses have one or more proctored examinations, which may be taken at any institution of higher education.

Students typically take three to six months to complete a course, though up to a year is permitted. All assignments are completed at the Student's own pace, at the place he or she finds most convenient. Upon course completion, the grade is placed on a transcript at the University of Florida and a report of that grade is sent to the institution the student requests.

Enrollments require the authorizing signature of the student's dean or counselor. Full catalog details, tuition costs, and application form may be obtained by contacting Florida International University, Division of Continuing Education at Bay Vista Campus, 940-5656, or by writing to Independent Study by Correspondence (1938 West University Avenue, Gainesville, Florida 32603) or by calling (940) 392-1711.

Courses are offered in each of the following departments: Accounting, Economics, Business Law, Management, Marketing, Astronomy, Chemistry, Geology, Meteorology, Political Science, Psychology, Social Science, Sociology, Insurance, Animal Science, Agriculture, Criminology, Education, Engineering, Land Surveying, English and Literature, Food Science and Human Nutrition, Geography, History, Home Economics, Philosophy, Religion, Advertising, Journalism, Public Relations, Germanic and Slavic Languages, Mathematics, and Health Education.

## 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 manage contract and grant programs for the University.

## Visual Arts Gallery

The Visual Arts Gallery of the University has served the South Florida community for the last five years exhibiting shows of local and national importance. Exhibitions from outside the University and the area are intended to display the finest available and affordable examples of contemporary and historical art. These shows are obtained from a variety of sources, primarily professional organizations and lending institutions, individual artists, commercial galleries, and other educational institutions.

The types of exhibitions displayed directly benefit not only the University community, but also the public community. Attendance records show that approximately 100 people per day visit the facility and come from Dade, Broward, Palm Beach, and Monroe counties for the most part. The gallery is open five days a week and one evening, resulting in a monthly attendance of 2,000 visitors. This figure does not include opening receptions which vary in attendance from 300 to 500 people.

The Visual Arts Gallery, which occupies a 2,500 square foot area on the Tamiami campus, opened with an internationally acclaimed exhibition of *Contemporary Latin American Drawings* in April, 1977. Since that date, the following are some of the exhibitions which have been displayed: *Alberto Giacometti, Draftsman and Sculptor; Contemporary Black Art: Selected Sampling; The Nazi Drawings of Mauricio Lasansky; The Tex-*

*urology Series of Jean Dubuffet; Florida Ceramics Invitational; Tsutsumi: The Art of the Japanese Package; Public Relations: Photographs by Garry Winogrand; Florida Sculpture Invitational; Homage to Kokoschka; Mira, Mira, Mira, Los Cubanos de Miami; Florida Craftsmen; Paper as Medium; Realism and Metaphor; Alfred Steiglitz 1894-1934; William Wiley; A Collector's Eye; The Olga Hirschhorn Collection and Miriam Schapiro, A Retrospective: 1953-1980; James Couper; The Treasures of the Norton Gallery of Art.*

Additionally, the Gallery has continued to enhance its exhibition program with a lecture program which has included many of the exhibiting artists and scholars, museum curators, etc. who have been involved with the particular exhibition. Also we have continued in 1981-82 our successful Critics' Lecture Series which included: Germaine Greer, Robert Hughes, John Szarkowski, and Peter Plagens. Each lecture has been attended by approximately 350-400 people.

The Gallery is operated by Dahlia Morgan, Director; William Humphreys, Curator, and senior art students who work through an internship program.

## 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 the University and to provide a broad scope of opportunities to expand upon classroom knowledge.

Departments of the Division of Student Affairs at Tamiami are located on the second and third floors of University House, and third floor of Primera Casa, and the Modular Building on the west side of the campus. At Bay Vista, Student Affairs offices are located in the Student Center Building.

The following section lists some of the services available to students through the Division. If any question is not answered below, any of the offices of Student Affairs will be of assistance.

### Consumer Student Services

The Consumer Student Services Program is designed as a student consumer informational service. Students may obtain individual counseling or group programs on issues concerning consumer problems, e.g., redress procedures. In addition, consumer informational materials are available for reference or are distributed at no charge to the student, e.g., Measuring and Using our Credit Capacity, Fair Credit Billing, Consumer Handbook To Credit Protection Laws, Last Resort Go To Court, Auto & Life Insurance, and many others. A commuter student ride exchange board is also maintained by this program.

The Tamiami office is located in UH 340, 554-2434 and the Bay Vista office is located in SC 260, 940-5813.

## Counseling Services

Counseling Services, located in UH 340 at the Tamiami Campus and Student Center 260 at the Bay Vista Campus, offer a variety of counseling, advising and testing programs for both individuals and groups. Personal counseling is provided for personal growth and development, family problems, and social concerns. 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. Academic counseling is provided to assist with choice of a major or academic field of study. Testing is also offered in the areas of personality inventories and interest inventories. In addition, workshops and seminars are held periodically on topics of special relevance to students.

## Developmental Education and Retention

The Department of Developmental Education and Retention is responsible for two programs: Student Retention, and Developmental Education.

RETENTION: The Retention Program offers free tutors in several subject areas on both campuses, personal counseling as it relates to performance in the classroom, an early-alert system for students on academic warning and probation, and assistance in the academic reinstatement process for those who have been dismissed.

DEVELOPMENTAL EDUCATION: The Developmental Education Program offers workshops and/or one-on-one sessions in study skills, organization and time management, and personal growth. Self-scoring and diagnostic testing is also available to assess subject areas where remedial assistance is needed *before* the student experiences academic difficulty.

The offices are located on Tamiami Campus, UH 340, Bay Vista Campus, in S.C. 266 and T.C. 105.

## Interdenominational Campus Ministry

Interdenominational Campus Ministry serves as a center for student groups at the University involved in a variety of activities. Professional representatives from various faiths are available for personal appointments. Often individual denominations will sponsor campus-wide programs under the auspices of this area.

The offices of Interdenominational Campus Ministry are located in PC 304, 554-2215 at the Tamiami Campus, and S.C. 265, 940-5813 at the Bay Vista Campus.

## International Student Services and Programs

The International Student Services Office, located in UH 340 at the Tamiami Campus and in SC 264 at the Bay Vista Campus, 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 advisors serve as a liaison on immigration matters and provide assistance with academic, financial, social, and personal problems besetting international students. An orientation program is held at the beginning of every semester 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. Various programs are provided to enable the total student body to participate more fully in the international dimension of the University. In addition, a University-wide Study Abroad Program and reference library have been developed including a listing of summer and international internship opportunities.

## Recreational Sports

The Recreational Sports Office is dedicated to serving the physical and leisure needs of the University 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 fencing, bowling, karate, judo, and men's and women's tennis.

A full program of intramural sports is offered each semester, 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. Intramurals include softball, soccer, tennis, racquetball, basketball, and football.

Many of the athletic facilities are open to students, faculty, and staff with the exception of times reserved for intercollegiate, intramural, and other recreational sports. Facilities are located on both the Bay Vista and Tamiami Campuses. Tamiami facilities include: tennis and racquetball courts, putting green, indoor and outdoor basketball courts, jogging trail with exercise stations, and multipurpose fields for a variety of outdoor activities. Bay Vista facilities include: tennis courts, jogging trail with exercise stations and multipurpose fields. Locker and shower facilities are available on both campuses.

Recreational Sports offices are located on both campuses: Tamiami Campus W-4, Room 210, 554-2255 and Bay Vista Campus SC 260, 940-5808.

## Special Services and the Handicapped

Special arrangements have been made at the University to serve the needs of those who have physical handicaps, chronic health problems,

hearing disorders, or mental or psychological disorders. Special Services, located in UH 340 at the Tamiami Campus and in Student Center 260 at the Bay Vista Campus, 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 architectural, academic, or other obstacles which the disabled student may encounter.

## Student Development Services

This area provides programs and services to facilitate the educational and personal development of students. Offices included within Student Development Services are: Counseling Services, Student Health Services, Disabled Student Services, International Student Services and Programs, Nautilus Fitness Center, and Consumer Student Services. For additional information, call 554-2421 on the Tamiami Campus or 940-5813 on the Bay Vista Campus.

## Student Activities and Organizations

Student activities are designed to meet the varied needs and potentialities of the University students. Student activities programming is 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. Some of the program committees are: Hispanic Heritage Week, Homecoming, American Heritage Celebration, Black History Week, International Week, concerts, lectures, etc.

Organizations are continually being formed on both the Tamiami and Bay Vista 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 and 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 Student Center 110 on the Bay Vista Campus.

The students at the University have the opportunity of becoming involved in many student clubs and organizations. Some of the student organizations operating at the University are:

Greek Council

Alpha Gamma Omega (fraternity)

Chi Delta Epsilon (sorority)

Honorary or Professional

Alpha Eta Rho

Epsilon Pi Tau (vocational education)

Kappa Delta Pi

Omicron Delta Society (leadership)

Phi Eta Sigma (freshman honorary)

Phi Delta Kappa

Phi Lambda Pi

Phi Theta Kappa

Specialized Clubs

Accounting Association

American Advertising Federation (BVC)

American Chemical Society

American Institute of Architects

American Marketing Association

American Society of Civil Engineers

Association of Music Students

Biology Society

Brazilian Club

College Republicans

Colombian Students Club

Computer Science Club

Earth Science Club

Ebony International

Economics Student Association

Fashion Association

Federation of Cuban-American Students

Fencing Club

Hotel, Food and Travel Association

International Food Service Executive

Association

International Student Club

Karate Club

Latin American and Caribbean Student

Association

Le Cercle Francais

Mass Communication Club

Medical Technology Club

Spirit Club

Student Achievers in the Black Life Experience

Student Art Association

Student Home Economics Association

The Caribbean Student Association

The Eclipse-Advertising Agency

Venezuelan Student Association

Meetings for all student groups are posted on the glass directory boards and bulletin boards throughout the University and are announced daily on Eventline, 554-2177. The Student Union in University House 212 "D" also has a master schedule of student meetings.

Students on Bay Vista Campus 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 resale to students at less-than-box-office prices. The Consortium campuses also jointly schedule cultural events.

## Student Government

The Student Government Association (SGA), with offices on the Tamiami Campus in University House 310 and 311, and on the Bay Vista

Campus in Student Center 260, 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.

## Student Health Care

The purpose of Student Health Services is to provide comprehensive health care to students at a level commensurate with their 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 Bay Vista Campus and the nurse practitioner is available there one day a week.

The Clinic on the Bay Vista Campus is located in Student Center 114. 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 the program. Family planning, laboratory, and physical therapy services are available.

For further information about special student insurance contact the Health Clinic on either campus, phone 554-2401.

## Student Judicial Affairs

The University exists as a free marketplace of ideas, fostering the intellectual interchange of knowledge, ideas, and philosophies. Freedom of expression, including the freedom to teach and learn within an academically stimulating environment, is a right preserved for all members of the University community. In view of this, the University has developed policies and procedures regarding the rights and responsibilities of students and a code of conduct assuring that these rights can be freely exercised without interference or infringement by others. The *Rights and Responsibilities of Students* is available for the University community. The Office of Student Judicial Affairs is located in UH 340, 554-2950.

## 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 yearbook 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 Bay Vista campus also, the opportunity exists for students to initiate any publications they wish. Contact the Student Activities Office in Student Center 110, for further information.

## Sunblazers' Cheerleaders

The Sunblazers' Cheerleaders are a select group of students who personify the spirit and enthusiasm of the quality intercollegiate athletic program offered at the University. This squad, of male and female students, is selected after try-outs which are held during the Spring and Fall Semesters each year. Membership on the Cheerleading squad is open to any student who has a 2.5 cumulative grade point average and can demonstrate the vitality and spirit of the Sunblazers' intercollegiate athletic program. The Cheerleaders participate in national cheerleading clinics which are held each summer and often travel away to athletic games. Interested students should call 554-2756.

## Sunblazers Fitness Center

On each campus, there is a Fitness Center equipped with a complete line of Nautilus machines. In addition free weights and a Universal machine are available at the Tamiami campus.

The Tamiami facility is located on the West side of campus in the W-9 building. The hours of operation are 11:00 am—9:00 pm (Mon-Fri) and 11:00 am-6:00 pm on Saturday. The Bay Vista facility is located in SC 140. The hours of operation are 12:00 noon-9:00 pm (Mon-Thurs), 12:00 noon-6:00 pm (Fri), and 12:00 noon-5:00 pm on Saturday.

Each Fitness Center is available at no cost to students. There is a \$25.00 semester fee for faculty, staff, and alumni. Locker rooms are available.

If Nautilus equipment has not been previously used, a two session orientation program is required. At these sessions, the concepts of Nautilus, techniques for using the machines, and the operating policies of the facility are taught.

For more information call: Tamiami Campus, 554-2573, of Bay Vista Campus, 940-5678.

## 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 non-classroom, yet educational environment. As the hub of student life, UH houses the bookstore, cafeteria, Rathskeller, Cinema Center. International Conference Theater, student publications/communications offices, recreation rooms, TV lounges, Student Government Asso-

ciation 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, are located on the third floor of the University House.

## University Housing

The University Housing Program is designed to enhance the university experience by providing services and programs that are responsive to contemporary student needs, and supports the overall educational goals of the University. The program will help students select living accommodations that meet their particular requirements.

There are a number of available options:

### *University Residence Apartments*

- a. efficiencies, private bath
- b. efficiencies, share bath
- c. one bedroom suite, private bath
- d. one bedroom suite, share bath
- e. two bedroom suite, private bath
- f. roommate options

### *Off-Campus Housing*

- a. privately owned efficiencies, condos, homes
- b. rooms in private homes
- c. commercial apartment complexes
- d. roommate options

The first phase of the University Residential Community is scheduled to open in the Spring of 1984 and will be located at the Bay Vista Campus. For the Tamiami Campus, residential facilities are planned to open in the Fall of 1984. University staff members are committed to working with members of the residential community and creating a living and learning environment that integrates intellectual and social development. They will assist you in creating a community that lends itself to interaction, understanding, friendships, and provides the opportunity to pursue an academic lifestyle.

Inter-campus transportation is provided for students by Florida International Transit Service (F.I.T.S.) to meet various educational programming needs.

Dining facilities are available at both the Bay Vista and Tamiami Campuses. They consist of both cafeteria and Rathskeller food services. All University residence apartments are furnished with cooking facilities. In addition, there are many restaurants located near both campuses.

For further information contact University Housing, UH 344, phone 554-2434.

## Standards of Conduct

Students are subject to Federal and State laws and local ordinances as well as regulations prescribed by the 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 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 Assistant to the Vice President for Student Affairs. Students should consult with this office for all disciplinary clearances and details on University grievance procedures. The office location is UH 343, 554-2950.

## University Public Safety Department

The 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 powers. This unit enforces state and local laws and University regulations. 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.

## Auxiliary Services

The Auxiliary Services at 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.

## 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. Bay Vista Campus is served by a full-service cafeteria located on the second floor of the Student Center.

## Book Store

The University bookstores are located in University House on Tamiami Campus, and in the Student Center on Bay Vista Campus.

## Affirmative Action Office

The Office reports to the President and provides leadership and direction in the administration of the University equalization programs for women and minorities in several

ways. It assists University units in implementing and monitoring affirmative action procedures; provides a channel for employee and student grievances regarding discrimination, or issues indicating a need for additional affirmative action; and promotes effective relationships between the University and community organizations. The Office also administers the State University System Scholarship Program. In addition, the Office maintains a liaison relationship with State and Federal agencies dealing with EEO and Affirmative Action. The Office is located on the Tamiami Campus in PC 220.

## University Relations and Development

The Division's major responsibilities are fundraising, public relations, and alumni development. It is organized into five departments: Development, Information Services, Publications, Special Events, and Alumni Affairs. Division personnel act as the staff of the Florida International University Foundation, Inc., a private, non-profit organization of South Florida community leaders who raise money for the University. The Division is headed by a vice-president who reports directly to the University President.

## Development

The University's private fundraising is directed by the Department of Development, which has recently begun the Fund for the Second Decade, an ambitious drive to raise \$37.6 million over the next ten years. Development staff manage separate drives for many schools, centers, and academic departments.

## Information Services

Information Services conducts the University's media relations. Its staff of editors and information specialists arrange general publicity for the University; issue news releases and schedule newspaper, magazine, radio, and television interviews for faculty, students and administrators. The department also publishes a faculty and staff newsletter, *Vistas*.

## Publications

Publications' artists design and produce all magazines, booklets, brochures, and pamphlets which are distributed to the public. The staff direct typesetting, bid specifications and print production. They also design and lay out *Caribbean Review*, the University's most well-known scholarly journal.

## Special Events

Special Events arranges and promotes attendance at, conferences, receptions, concerts, plays, lectures, and athletic events for the entire University. The department manages major portions of the University's commencement exercises. Special Events staff participate in countywide events, such as Hispanic Heritage Week, in which the University takes part.

## Alumni Affairs

This department organizes and informs the University's alumni and raises money for the Alumni Annual Fund. Its staff are the University's liaison with the FIU Alumni Association.

Governed by a board of directors of University graduates, the Alumni Association plans social and cultural events, seminars and travel for members and keeps all alumni informed of new developments at FIU.

All graduates and presently enrolled students are eligible to join the association. Membership benefits include discounted tickets to sports events, plays and concerts at the University, and invitations to special alumni events. To join the association, visit the alumni office, room 230, Primera Casa, Tamiami campus, or contact the FIU Alumni Association, PC. 230, Florida International University, Miami, Florida, 33199, 305/554-3334.

## Centers and Institutes

### Center for Economic Education

The Center for Economic Education's purpose is to foster a greater understanding and to provide community education concerning international trade and commerce in South Florida. Seminars and conferences for educators, the business community, and the public are held in conjunction and cooperation with local organizations and institutions. The Center represents an important link between the University and the business and education communities in South Florida. It addresses the economic concerns of the area's subgroups, and develops economic education programs, video tapes, and lectures for Spanish speaking professionals and teachers, locally and in Latin America and the Caribbean.

### Center for Labor Research and Studies

The 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. The Center is authorized by the Board of Regents to provide programs and services throughout the State of Florida. Through the College of Technology, a baccalaureate and a certificate program in Industrial and Labor Relations are sponsored.

### Center for Management Development

The Center for Management Development located in the Office of the Dean, College of Business Administration, was created by the Board of Regents in 1980. It is designed to



provide training, technical assistance, and consultation to managers in South Florida.

### Training

The Center responds to community needs for management training and executive development. It provides programs for local, state, national, and international clients. They include the airline, banking and finance, hospitals, manufacturing, real estate, retail, and numerous public agencies.

Programs are non-credit but may earn Continuing Education Units (CEUs) and participants are awarded certificates upon program completion.

### Technical Assistance and Consultation

The Center is a clearing house for matching a variety of faculty resources to complex and specialized needs of the community. It draws on a variety of disciplines in the College of Business Administration to serve the private and public sectors.

For further program information call Dr. Larry A. Smith, Director, at 940-5825.

## Drinking Water Research Center

The only facility of its kind in the State of Florida, the Drinking Water Research Center (DWRC) was created by the Florida State Legislature in 1977. The Center is primarily devoted to conducting scientific research and developing essential technologies that can be used to provide quality drinking water to Florida residents, residents in the United States, and global neighbors. The Center receives financial support from the State of Florida and from research grants. The Center does not perform routine tests of water for individuals. Administratively the Center is a part of the University's College of Technology.

Through programs of research, education, community service, and public information, the Center provides a comprehensive approach toward solving the dilemmas confronting the world's largest and most essential natural resource — water. Although enormous quantities of water exist, the proper amount of good quality water is not to be found in the right places at all times. Without an adequate supply and quality of water, a society's physical and economic health will surely suffer.

The Center staff does not conduct academic classes. However, qualified students often have an opportunity to work as research assistants in the Center's laboratories or carry out independent research projects. Cooperation and interchange with other departments in the University are maintained.

## English Language Skills Center

The English Language Skills Center, under the College of Arts and Sciences, was established in the summer of 1981 by the University to respond to the need of multidimensional language proficiency assessment and instruction in oral, aural, and written English. In order to serve the University community, as well as the South

Florida community, a variety of individual components of language assessment and instruction have been integrated into the English Language Skills Center, a centralized bureau of information, counseling, testing, placement, tutorial instruction, and noncredit English courses for native and nonnative speakers. The primary functions of the ELSC are carried out by four units, the Testing and Placement Center, the Intensive English Program, the Writing Laboratory, and the Technical Communications Program.

### Testing and Placement

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

### Intensive English Program

The Intensive English Program offers non-credit instruction in English to non-native speakers in the community and from abroad. Classes in reading, grammar, writing, and conversation are taught at four levels of proficiency, and language laboratory facilities are available in which students can increase their listening comprehension and speaking skills under the guidance of its director. In addition, through the services of the language laboratory, the IEP provides an accent reduction laboratory for students with critical problems in pronunciation. Students normally take a full, four-course load, but it is also possible for fully admitted University students to take a course in a single skill when deficiencies have been identified through the testing and placement procedures of the English Language Skills Center.

### Writing Laboratory

A free tutorial service available to all students on a one-to-one or small-group basis, the Writing Laboratory offers individualized instruction in all types of writing — essay, exams, compositions, research papers, and business or technical reports. Students work in the Writing Laboratory at their own pace and in the areas they need most, whether mechanics, organization, development, or style.

Individuals may be referred to the Writing Lab by the testing and placement services of the ELSC, by the student's department, or by an individual instructor, but a referral is not necessary. In addition to individual tutorial services, the staff of the Writing Lab designs workshops and mini-seminars to aid larger groups in the

development of specific skills, such as punctuation, organization, and note-taking. These workshops are available to anyone in the University community and can be arranged for a specific group upon consultation with the Director of the Writing Laboratory.

### Technical Communication Program

The English Language Skills Center is developing a Technical Communications Program to serve as a much-needed link between the University and the local community. The Technical Communications Program will offer mini-courses, workshops, and training sessions in technical writing, communication skills, and related staff-development areas to public and private agencies in Florida and abroad.

### Other Related Activities

In conjunction with the above activities, the English Language Skills Center offers non-credit courses in the evening for non-native speakers of English. Advanced Pronunciation and Conversation and Advanced Writing and Grammar are designed for non-native speakers who have a good command of English but wish to improve their proficiency in one or both of these areas.

The Center also supports research in linguistics and first- and second-language acquisition, as well as staff participation in language-related conferences, workshops, and seminars. As the ELSC develops, it expects to help meet the growing needs for English language services as they arise both within the University and outside the University community.

For further information regarding the English Language Skills Center or its programs, contact the English Language Skills Center, PC 237, Florida International University, Tamiami Campus, Miami, Florida 33199 (Telephone: 305-554-2222), or the Director of the relevant program.

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

The establishment in July 1972 of the Joint Center for Environmental and Urban Problems by Florida International University and Florida Atlantic University was based on the premise that many of Florida's environmental and urban problems are interrelated growth management problems. The headquarters of the Joint Center are located on the Broward campus of FAU in Ft. Lauderdale with branch offices on FIU's Bay Vista Campus and FAU's Boca Raton campus. An associate director, research associate, research assistant and a secretary staff the FIU office.

The Joint Center functions as an applied research and public service facility that carries out programs supportive of local, regional and state agencies, private institutions, and individuals. The Center achieves its purposes through activities in the following program areas: (1) in-house research with application to state, regional, and local governments; (2) grants and



contracts with public and private agencies that address environmental and urban problems; (3) applied research grants awarded to faculty at the two universities; (4) publication of research findings in the Joint Center's quarterly journal, *Florida Environmental and Urban Issues*, and other publications; (5) production and distribution, in conjunction with FIU's Media Services, of videotape documentaries and public service messages concerning selected environmental and urban problems; and (6) workshops, assemblies, lectures, and short courses, offered in conjunction with the Continuing Education departments of the two universities.

#### Research

Recent in-house research projects have included: an update of an earlier survey of nineteen Florida counties to provide information on metropolitan county responses to rapid population growth; identification of strategies for use by municipal housing authorities to remedy urban decay and blight; and an analysis of issues and governmental programs related to retention of important agricultural land in Florida and in three other states. Joint Center research supported largely by grants and contracts have dealt with topics such as economic, environmental and public service effects on the Florida Keys of Area of Critical State Concern designation; local government energy conservation needs and strategies; alternative methods of projecting economic activity within the area of jurisdiction of the South Florida Water Management District; administrative and service delivery problems experienced by the City of Orlando; implementation techniques for land-use regulations associated with Dade County's East Everglades plan; and strategies for the development of a comprehensive policy framework for state growth management.

Applied research grants recently awarded to faculty members at the two universities supported an evaluation of the energy conservation effectiveness of landscape design at eight homes in southeast Florida; a study of the applicability of an alternative sample survey technique to the evaluation of public opinion about local issues; and studies of local government fiscal and financing issues.

#### Service

In cooperation with local, regional or state agencies, or private organizations, the Joint Center has directed and staffed conferences for public officials and community leaders concerning regional planning, coastal management, local energy management, and agricultural land retention in Florida. In conjunction with FIU's Media Services, videotape documentaries or public service messages concerning coastal management, prevention of water pollution, and agricultural land retention have been produced and distributed for public education purposes.



## International Affairs Center

K. William Leffland, Dean  
John J. Staczek, Associate Dean  
Lisa Lekis, Research Scholar  
Tanya R. Saunders, Coordinator  
Gema Hernandez, Coordinator

International education, training, and research are the principal goals of the International Affairs 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.

The University is dedicated to international education in the form of academic research, instruction, service, and cooperative exchange. As the fulcrum of internationalism, the Center conducts research, develops programs, and offers joint programs with all units of the University in international education, research, and training.

In order to provide opportunities for students to observe the dynamics of United States participation in world activities and to the equally critical roles played by other countries in world affairs, the University encourages the offering of courses and programs with an international orientation. To that end, the University currently provides courses, certificate and degree programs in the following college and schools:

*College of Arts and Sciences*  
*College of Business Administration*  
*School of Education*  
*School of Hospitality Management*  
*School of Nursing*  
*School of Public Affairs and Services*  
*College of Technology*

The Center also has programs through the College of Technology in conjunction with the Drinking Water Research Center, Fire Safety Certificate, and the International Institute for Housing and Building.

Integral to the University's international curriculum is the presence of world-renowned faculty and the participation of all faculty in international activities on campus and abroad. Noteworthy efforts of the faculty and staff include cooperative programs and projects with the Bahamas, Brazil, Colombia, England, Haiti, Honduras, Kuwait, Mexico, Panama, Saudi Arabia, and Venezuela.

By providing research, training, instruction and development with the Colleges and Schools of the University, the International Affairs Center concentrates on the delivery of solutions to 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. Fundamental to the Center's operation is the concept that the most productive and valuable international activities are those which are multidisciplinary. Priority is given to those efforts in which two or more schools or departments participate. The promotion of faculty and student research 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. Moreover, in response to the University's international mission, the Center also participates in the admission of students to the University from all over the world through the Office for International Student Services. Currently, 37 countries are represented in the student body of the University.

The endeavors of the University and its International Affairs Center demonstrate the commitment of the institution to cooperative participation in service to the world community.

The University is the present locus of a new international organization, the Interamerican University Council for Economic and Social Development. The Secretariat may be addressed in care of the University President who is serving as the first Board Chairman.

## International Banking Center

The Florida Board of Regents established the International Banking Center in July, 1978, as a "Center of Excellence" and as one of the University's highest priority programs. The International Banking Center is the principal institution for education and research in international banking in the State of Florida, with offices on the Tamiami Campus. Its staff works closely with organizations representing all facets of international banking. This includes training programs such as Seminar on International Banking (INTER-BANK), Advanced International Bank Executives Course (AIBEC) for Latin American bankers, Distinguished Lecture Series on International Banking, and Conferences on topics dealing with the problems of International Banking and Finance.

## Small Business Development Center

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

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

In June 1980, the SBDC started actively fulfilling its mission to the small business community of greater Miami area by providing counseling services and training programs to the public. The SBDC staff has provided 2,434 people from the community with 116 training programs since its inception for a total of 14,792 training hours. Also, the Center has counseled over 1,200 individuals or businesses on a one-to-one basis concerning specific problems relating to their small business, for a total of approx-

imately 11,600 hours of counseling time being given to the small business community.

In particular, the SBDC has developed a reputation for packaging Small Business Administration loan applications. Numerous referrals from the major banks and government agencies in the Miami area have resulted from this. The Center also attracts many clients through its special services such as INFO BID and the Florida Innovation Program. These services are designed to provide, respectively, leads for government and private contracts to Florida small businesses and assistance to the inventor/entrepreneur.

Since its inception, the SBDC has expanded its outreach effort. Presently, the Center is subcontracting to Florida Keys Community College in Key West, which significantly increases the geographic coverage of the program.

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

## Women's Studies Center

The Women's Studies Center serves as a University resource on the specialized concerns and academic interests of women. The Center provides a place and opportunity to foster women's progress through such activities as referrals; counseling; peer groups; access to studies and research on women's learning and culture; and assistance on issues of gender inequality. The Center offers seminars, conferences, lecture series, and related events on both academic and women's issues topics. A major focus of the Center is the interdisciplinary Certificate Program in Women's Studies; it provides support for the certificate faculty committee and the development of the program.

The Certificate in Women's Studies was established to provide an opportunity for the interdisciplinary study of the historical, political, economic, literary, social, and cultural roles of women; and of the function of gender in various societies and cultures. The program is directed toward specialists and generalists alike: it offers a plan of study for students in the various departments who wish to earn a certificate in women's studies, and it welcomes students who wish to enroll in its courses without fulfilling the requirements for the certificate.

The Center is located at the Tamiami Campus in Primera Casa 114 and welcomes visitors and inquiries. Telephone 554-2408.

## 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.

## Elder's Institute

The Elder's Institute offers daytime non-credit continuing education programs for the adult learner. The Institute is located on the Bay Vista Campus, in an area that is populated by over 100,000 persons sixty-plus years of age. The course content for classes is primarily in the social sciences, the humanities, and the behavioral sciences. The instructors are University faculty and community experts. The Institute's students are motivated learners seeking knowledge, information, and skills for intellectual stimulation and personal growth. Lectures, seminars, and workshops in special interest areas are offered throughout the year. The Institute staff also conducts training for community-based agencies as well as serving as a resource and referral base for the health and welfare needs of the older American.

## Institute in the Creative and Performing Art for the Exceptional

The Institute in the Creative and Performing Arts for the Exceptional provides significant arts experiences for exceptional children and adults working with community arts organizations. Research in the arts are an integral part of the institute's activities.

## Institute for Public Management and Community Services

The Institute for Public Management and Community Services (IPMCS) is the research, training, and technical assistance arm of the School of Public Affairs and Services. Established in 1978 by the Board of Regents, the Institute provides an organizational link between FIU and state and local government agencies, as well as non-profit social service organizations. The major functions of the Institute are to assist these agencies and organizations in more effectively understanding and meeting the increasing demands being placed upon them, and to broaden community understanding of the major public policy issues confronting the State and region.

The Institute performs these functions by serving as a focal point within FIU for interdisciplinary research, training, and technical assistance related to the public sector. It provides opportunities for faculty and students to conduct research on problems which confront the community in general and public sector agencies more specifically, and offers a system through which the resulting scholarship is made available to government officials and interested citizens. The Institute also conducts formal training programs and provides technical assistance designed to aid public sector agencies in improving the effectiveness, efficiency and responsiveness of their operations.

## International Institute for Creative Communication

The International Institute for Creative Communication is a State University System

consortive fellowship which initiates and administers grants, programs, and projects in the arts, humanities, and information technology. Hosted by Florida International University, the Institute also works cooperatively with the Bureau of Cultural Affairs and the State Arts Council. Currently the Institute operates a microcomputer network linking professors in the arts and humanities at each of the nine university campuses in the state. The ultimate goal of the Institute is to establish an expanded interactive communication network devoted to teaching, training, and nurturing creative activities in the arts and humanities.

## International Institute for Housing and Building

In its early planning, the 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, College 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:

1. 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;
2. To generate funds from outside sources to finance theoretical and applied research activities;
3. To disseminate the results of research projects and encourage their implementation;
4. To provide technical services to private and official organizations with a special emphasis on service to the housing production industries of South Florida and in 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 the University and South Florida;
8. To develop a learning environment in the area of building sciences relevant to the needs of low and medium-income people of the world;
9. To collaborate with other research institutes, government agencies, and universities to increase the effect of its research program;
10. To organize scientific meetings, symposia, conferences, seminars, and workshops at the University and elsewhere;

11. To incorporate the use of alternative energy, energy conservation, and efficient use of natural resources in the planning of large projects, and to encourage the utilization of indigenous materials and labor sources;

12. To help implement programs to alleviate the impact of various disasters on housing including the coordination of disaster preparedness activities related to housing.

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

## International Institute for the Study of Sport

The University began to conduct significant research in national and international sport in September 1980 to examine sports as an object of liberal inquiry, investigating its biological, psychological, and sociological dimensions. All students interested in participating in the Institute should contact the School of Education.

## 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 state university can also be used for that purpose by a



transfer student regardless of where the credit was earned.

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

### General Rule for Course Equivalencies

All undergraduate courses bearing the same alpha prefix and last three numbers (and alpha suffix, if present) have been agreed upon to be equivalent. For example, an introductory course in sociology is offered in over 40 post-secondary institutions in Florida. Since these courses are considered to be equivalent, each one will carry the designator 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)  
 OCB 013L (lab only)  
 Marine Biology OCB 013C (lecture with lab 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.

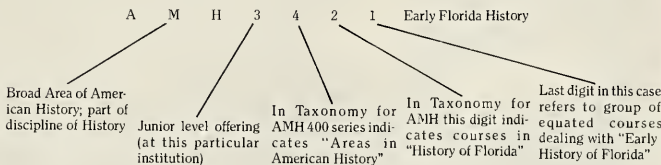
The number of prefixes is a function of the extent of the subclassifications of the given subject matter area.

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., HYHistory) and now he will have seven, all prefixes in the same subject matter areas will be the same throughout these institutions.

A more specific example is AMH 3421.



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

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:

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 statewide 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

<i>President</i>	Gregory Baker Wolfe
<i>Executive Director, Planning and Analysis</i>	Robert Winter
<i>Executive Assistant to the President</i>	Christina Bruce
<i>Director, Legislative and Community Relations</i>	Fausto B. Gomez

### Academic Affairs

<i>Provost and Vice President</i>	Steven Altman
<i>Associate Vice President and Dean, Advanced Studies</i>	John A. Carpenter
<i>Vice Provost, Bay Vista Campus</i>	Rosebud L. Foster
<i>Assistant Vice President</i>	Arnilda Gonzalez-Quevedo
<i>Director, Academic Budget</i>	Irene Manos
<i>Dean, Undergraduate Studies</i>	Clair McElfresh
<i>Dean, International Affairs Center</i>	K. William Leffland
<i>Director, Libraries</i>	Laurence A. Miller
<i>Director, International Banking Center</i>	John M. Porges
<i>Director, Sponsored Research and Training</i>	Thomas A. Breslin
<i>University Registrar</i>	William F. Younklin
<i>Director, Admissions, School and College Relations</i>	William Brinkley
<i>Director, Financial Aid</i>	Ana Sarasti
<i>Director, Registration and Records</i>	Lourdes Meneses
<i>Director, Cooperative Education and Placement</i>	Patrick Russell
<i>Director, Academic Computer Services</i>	TBA
<i>Director, Joint Center for Environmental and Urban Problems</i>	John DeGrove
<i>Director, Media Services</i>	Arthur D. Waugh
<i>Director, Labor and Research Studies Center</i>	John Remington
<i>Director, Elder's Institute</i>	Doris Bass
<i>Director, Visual Art Gallery</i>	Dahlia Morgan
<i>Director, Women's Studies Center</i>	Marilyn Hoder-Salmon

### Library, Tamiami Campus

<i>Director of Libraries</i>	Laurence A. Miller
<i>Assistant Director, Reader Services</i>	Muriel Efron
<i>Assistant Director, Technical Services</i>	Julia A. Woods
<i>Head, Reference Dept.</i>	Sherry Carrillo
<i>Head, Instructional Resource Center</i>	Ronald W. Martin
<i>Document Librarian</i>	Josephina H. Rodriguez

<i>Urban and Regional Documents Librarian</i>	Esther B. Gonzalez
<i>Latin American and Caribbean Librarian</i>	Marian Goslinga
<i>Assistant Catalog Librarian</i>	Jean Thompson
<i>Business Reference Librarian</i>	Karen Switt
<i>Assistant Reference Librarian</i>	Margorie A. Beary
<i>Assistant Reference Librarian</i>	Rychard S. Cook II
<i>Social Sciences Reference Librarian</i>	Andrew Grof
<i>Associate Reference Services Librarian</i>	Herlein Minnie Dunbar
<i>Head, Special Collections</i>	H. Juanita Flanders
<i>Head, Catalog Department</i>	Jacqueline M. Zelman
<i>Head, Acquisitions Department</i>	Calvin Burkhardt
<i>Associate Catalog Librarian</i>	Robert Mead-Donaldson
<i>Associate Catalog Librarian</i>	Robert D. Rodriguez
<i>Head, Serials Department</i>	Caroline J. Barker
<i>Librarian</i>	Mayra Nemeth
<i>Associate Serials Librarian</i>	John Radencich

### Library, Bay Vista Campus

<i>Associate Director</i>	Antonie L. Baker
<i>Catalog Librarian</i>	Robert E. Stack
<i>Head, Bibliographic Control Department</i>	Susan Mead-Donaldson
<i>Serials Department</i>	Leslie V. McCammon
<i>Curriculum Laboratory Librarian</i>	Barbara A. Sudano
<i>Head, Reader Services</i>	Miguel M. Menendez
<i>Associate Reference Librarian</i>	Susan R. Weiss
<i>Documents Librarian</i>	Scott Kass
<i>Bibliographic Instructor</i>	James Whitelock
<i>AV Librarian</i>	

### Division of Continuing Education

<i>Dean,</i>	Douglas H. Smith
<i>Assistant Dean,</i>	TBA
<i>Director, Off Campus and Weekend Credit Courses</i>	Carolann Baldyga
<i>Director, Department of Conferences</i>	Howard Wade
<i>Director, External Degree Program</i>	Maryellen Canora
<i>Director, Small Business Development Center</i>	Marvin Nesbit

### Administrative Affairs

<i>Vice-President</i>	Ronald G. Arrowsmith
<i>Assistant Vice-President</i>	Juan Argudin
<i>Director, Physical Plant</i>	Donn Ashley
<i>Director, Health and Environmental Safety</i>	Jim Beauchamp
<i>Director, Physical Planning</i>	Dan D'Oliveira

<i>Director, Internal Auditing</i>	Andy Fornaguera
<i>Director, SERDAC</i>	Jim Helm
<i>Director, Controller's Office</i>	James Ketzle
<i>Director, Purchasing</i>	Doris Sadoff

### Human Resources

<i>Vice President</i>	Emanuel Harris, Jr.
<i>Director, Public Safety Department</i>	Harvey Gunson
<i>Assistant Director, University Personnel Relations</i>	Steven Belcher

### Planning and Analysis

<i>Executive Director</i>	Robert Winter
<i>Assistant Executive Director</i>	Sidney Walesh
<i>Director, Computer Systems and Services</i>	Charles Beranek
<i>Director, Budget Planning</i>	Charles Tinder
<i>Director, Resource Analysis</i>	Doug Spencer

### Student Affairs

<i>Vice Provost and Vice President</i>	Patricia H. Lutterbie
<i>Director, Management Operations</i>	James Flood
<i>Assistant to the Vice President</i>	Ozzie Ritchey
<i>Assistant Dean</i>	Karel King
<i>Director, Student Development</i>	John Bonanno
<i>Director, University Unions</i>	Thomas Riley
<i>Director, Student Activities</i>	Ruth Hamilton
<i>Director, Intercollegiate Athletics and Recreational Sports</i>	Nancy Olson
<i>Associate Director, International Student Services</i>	Rose T. Watson
<i>Coordinator, Off-Campus Housing/Consumer Services</i>	Sharon Gottlieb
<i>Coordinator, Handicapped Student Services</i>	Kathy Trionfo

### University Relations, Development and Alumni Affairs

<i>Vice President</i>	Albert Veliky
<i>Director, Development and Alumni Affairs</i>	Jack Riggard
<i>Coordinator, Development</i>	Lane Coleman
<i>Coordinator, Development</i>	David Kayajan
<i>Coordinator, Development</i>	Frances Koestine
<i>Coordinator, Alumni Affairs</i>	Joanne Hayek
<i>Director, Information Services</i>	Connie Crowther
<i>Director, Publications</i>	Juan C. Urquiola
<i>Coordinator, Special Events</i>	Marlen Alba

# ACADEMIC CALENDAR 1983-84\*

## FLORIDA INTERNATIONAL UNIVERSITY

### FALL SEMESTER 1983

May 25	Last day for receipt of International Students' Admission Application for Fall Term.
July 13	Last day for receipt of Admission Application, including all appropriate credentials, for Fall Term.
July 25-29	Official Registration Week (Degree-Seeking Students), by appointment only, for Fall Term.
August 1-12	Open Registration for Fall.
August 22	Registration Day.
August 24	Classes Begin.
September 2	Last day to complete Late Registration by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Drop/Add Period ends.</li> <li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>• Last day to pay tuition and fees without incurring a late fee.</li> <li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
September 5	Labor Day Holiday (University closed).
September 16	Last day to apply for Fall Term graduation.
September 23	Last day to complete withdrawal with a 25% refund of tuition less bonding fees.
October 21	Last day to drop a course with a DR grade, by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Last day to withdraw from the University with a WI grade.</li> <li>• Last day for reinstatement of cancelled courses due to non-payment.</li> </ul>
November 11	Veterans Day Holiday (University Closed).
November 14-18	Official Registration Week (Degree-seeking Students), by appointment only, for Spring Term.
November 24-25	Thanksgiving Holiday (University closed).
November 28-	
December 9	Open Registration for Spring Term.
December 9	Classes End.
December 12-16	Official Examination Period.

### SPRING SEMESTER 1984

October 5	Last day for receipt of International Students' Admission Application for Spring Term.
November 14-18	Official Registration Week (Degree-Seeking Students), by appointment only, for Spring Term.
November 23	Last day for receipt of Admission Application, including all appropriate credentials, for Spring Term.
November 28-	
December 9	Open Registration for Spring Term.
January 2	New Year Holiday (University closed).
January 3	Registration Day.
January 5	Classes Begin.
January 13	Last day to complete Late Registration by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Drop/Add Period ends.</li> <li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>• Last day to pay tuition and fees without incurring a late fee.</li> <li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
January 27	Last day to apply for Spring Term graduation.
February 3	Last day to complete withdrawal with a 25% refund of tuition less bonding fees.
March 2	Last day to drop a course with a DR grade by 3:00 p.m.
	<ul style="list-style-type: none"> <li>• Last day to withdraw from the University with a WI grade.</li> <li>• Last day for reinstatement of cancelled courses due to non-payment.</li> </ul>
March 26-30	Official Registration Week (Degree-Seeking Students), by appointment only, for Complete Summer Term, Summer Term A, and Summer Term B.
April 2-6	Spring Break.
April 9-20	Open Registration for Complete Summer Term, Summer Term A, and Summer Term B.
April 20	Classes End.
April 23-27	Official Examination Period.



**SUMMER SEMESTER 1984**

February 1	Last day for receipt of International Students' Admission Application for Summer terms.
March 26-30	Official Registration Week (Degree-Seeking Students), by appointment only, for Complete Summer Term, Summer Term A, and Summer Term B.
March 28	Last day for receipt of Admission Application, including all appropriate credentials for Summer Terms.
April 9-20	Open Registration for Complete Summer Term, Summer Term A, and Summer Term B.
June 1	Last day to apply for Complete Summer Term, Summer Term A, and Summer Term B graduation**.

**Complete Summer Term**

May 7	Registration Day.
May 9	Classes Begin.
May 18	Last day to complete late registration by 3:00 p.m. <ul style="list-style-type: none"> <li>● Drop/Add Period ends.</li> <li>● Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>● Last day to pay tuition and fees without incurring a late fee.</li> <li>● Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
May 28	Memorial Day Holiday (University closed).
June 1	Last day to apply for Summer Term graduation. <ul style="list-style-type: none"> <li>● Last day to complete withdrawal with a 25% refund of tuition less bonding fees.</li> </ul>
July 4	Independence Day Holiday (University closed).
July 6	<ul style="list-style-type: none"> <li>● Last day to drop a course with a DR grade by 3:00 p.m.</li> <li>● Last day to withdraw from the University with a WI grade.</li> <li>● Last day for reinstatement of cancelled courses due to non-payment.</li> </ul>
August 10	Classes end.

**Summer Term A**

May 7	Registration Day.
May 9	Classes Begin.
May 18	Last day to complete late registration by 3:00 p.m. <ul style="list-style-type: none"> <li>● Drop/Add Period ends.</li> <li>● Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>● Last day to pay tuition and fees without incurring a late fee.</li> <li>● Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
May 28	Memorial Day Holiday (University closed).
June 1	Last day to apply for Summer Term graduation. <ul style="list-style-type: none"> <li>● Last day to drop a course with a DR grade by 3:00 p.m.</li> <li>● Last day to withdraw from the University with a WI grade.</li> <li>● Last day for reinstatement of cancelled courses due to non-payment.</li> <li>● Last day to complete withdrawal with a 25% refund of tuition less bonding fees.</li> </ul>
June 22	Classes End**.

**Summer Term B**

June 1	Last day to apply for Summer Term graduation.
June 25	Registration Day.
June 27	Classes Begin.
July 4	Independence Day Holiday (University closed).
July 6	Last day to complete Late Registration by 3:00 p.m. <ul style="list-style-type: none"> <li>● Drop/Add Period ends.</li> <li>● Last day to drop courses or withdraw from the University without incurring a financial liability.</li> <li>● Last day to pay tuition and fees without incurring a late fee.</li> <li>● Last day to pay tuition and fees to avoid cancellation of enrollment.</li> </ul>
July 20	Last day to drop a course with a DR grade by 3:00 p.m. <ul style="list-style-type: none"> <li>● Last day to withdraw from the University With a WI Grade.</li> <li>● Last Day for reinstatement of cancelled courses due to non-payment.</li> <li>● Last day to complete withdrawal with a 25% refund of tuition fees less bonding fees.</li> </ul>
August 10	Classes End.

\*Calendar dates are subject to changes. Appropriate offices should be contacted for verification and updated information.

\*\*Grades will not be posted on transcripts and graduation will not be processed until the end of the Complete Summer Term, August 10.

1983

S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>January</b>							<b>February</b>						
					1							1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28					
30	31												
<b>March</b>							<b>April</b>						
	1	2	3	4	5							1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28	29	30
<b>May</b>							<b>June</b>						
1	2	3	4	5	6	7				1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31					26	27	28	29	30		
<b>July</b>							<b>August</b>						
				1	2			1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28	29	30	31			
31													
<b>September</b>							<b>October</b>						
			1	2	3								1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					
<b>November</b>							<b>December</b>						
	1	2	3	4	5					1	2	3	
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30				25	26	27	28	29	30	31

1984

S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>January</b>							<b>February</b>						
1	2	3	4	5	6	7				1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31					26	27	28	29			
<b>March</b>							<b>April</b>						
			1	2	3					1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28
25	26	27	28	29	30	31	29	30					
<b>May</b>							<b>June</b>						
		1	2	3	4	5						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28	29	30
<b>July</b>							<b>August</b>						
1	2	3	4	5	6	7				1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31					26	27	28	29	30	31	
<b>September</b>							<b>October</b>						
					1				1	2	3	4	5
2	3	4	5	6	7	8	7	8	9	10	11	12	13
9	10	11	12	13	14	15	14	15	16	17	18	19	20
16	17	18	19	20	21	22	21	22	23	24	25	26	27
23	24	25	26	27	28	29	28	29	30	31			
30													
<b>November</b>							<b>December</b>						
		1	2	3									1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					



# Colleges of Arts and Sciences

# College of Arts & Sciences

The College of Arts and Sciences is a Liberal Arts College. It furthers the study of fundamental intellectual disciplines, and serves the University's Colleges and Schools.

The College offers departmental programs of study leading to Bachelor's degrees in biological sciences, economics, English, history, international relations, mathematical sciences (computer science, mathematics, and statistics), modern languages (French, German, Italian, and Spanish), performing arts (music, theatre), philosophy and religious studies, physical science (chemistry, earth science, environmental studies, and physics), political science, psychology, sociology/anthropology, and visual arts. The College also offers collegiate programs of study leading to Bachelor's degrees in humanities and liberal studies.

The College also offers Minor programs of study in art history, biology, chemistry, computer science, earth science, economics, English, environmental studies, general translation studies, French language and culture, history, human biology, international relations, mathematics, philosophy, political science, Portuguese, psychology, sociology/anthropology, statistics, theatre, and visual arts.

The College has academic programs leading to Master's degree in biology and chemistry, (offered jointly with FAU); computer science, economics, environmental and urban systems (offered jointly with the College of Technology); international studies, mathematical sciences; physics (offered jointly with FAU), and psychology.

Students can earn through the College certificates in: American Studies, Consumer Affairs, Environmental Studies, Ethnic Studies, International Studies, Latin American and Caribbean Studies, Linguistic Studies, Marine Science, Tropical Commercial Botany, Western Social and Political Thought, and Women's Studies.

## General Information

A student with an Associate degree from a community college, or having completed the equivalent coursework at a four year institution, will be admitted to a College's program.

The College serves students who need to complete general education requirements, and other requirements, to enroll in specific disciplines or professional programs.

Candidates to the Bachelor's degree must satisfy individual departmental requirements, and the following College requirements, in addition to the University-wide requirements:

1. Nine semester hours of elective credits earned through coursework outside the major discipline; six of which taken outside the department sponsoring the program.
2. Earn a grade of 'C' or higher in all courses required for the major.
3. Of the total number of hours submitted for

graduation, a minimum of 54 semester hours must be in upper division courses.

Moreover, students should consider earning a minor or a certificate with their major to enhance the liberal quality of their education.

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

## Anthropology

Anthropology is part of the Department of Sociology and Anthropology. Information is available from the department's office. See Sociology/Anthropology section for program and course requirements.

## Biological Sciences

Martin L. Tracey, Associate Professor and Chairperson

Carlo Ambrosino, Research Scientist  
Chun-fan Chen, Associate Professor  
Leon A. Cuervo, Associate Professor  
George H. Dalrymple, Associate Professor  
Walter M. Goldberg, Associate Professor  
Kenneth Gordon, Assistant Professor  
David W. Lee, Associate Professor  
John C. Makemson, Associate Professor  
Jeffery Marcus, Assistant Research Scientist  
Patsy A. McLaughlin, Research Scientist  
Gerald L. Murison, Associate Professor  
Case K. Okubo, Assistant Professor  
Jennifer Richards, Assistant Professor  
Abraham M. Stein, Professor  
Josef Szepesow, Research Scientist  
Anitra Thorhaug, Research Scientist

LOCATION: Tamiami Campus

DEGREE: Bachelor of Science

\*Students interested in teacher certification refer to the School of Education.

### LOWER DIVISION PREPARATION:

*Required Courses:* six semester hours of lectures and two semester hours of laboratories in each of the following areas: general biology, general chemistry, general physics, and organic chemistry; nine semester hours in college algebra, trigonometry, and analytical geometry; or Calculus I and II.

*Recommended Courses:* foreign language and calculus.

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

### UPPER DIVISION PROGRAM:

Required Courses		Semester Hours
1. PCB 3043	Fundamentals of Ecology	3

2. PCB 3513+L	Genetics	4
3. BCH 3033+L	Int. Biochemistry Biomolecules <sup>1</sup>	5
OR		
PCB 3203+L	Cell Physiology	4
4. PCB 4723+L	Animal Physiology	4
OR		
BOT 4504+L	Plant Physiology	4
5. ZOO 3603+L	Embryology	4
OR		
PCB 4254	Developmental Biology	3
OR		
BOT 4314C	Plant Development	4
6. BSC 4931	Senior Seminar	1
7. Biological Sciences Electives <sup>2,3,4</sup>		10
8. Mathematics	Courses chosen from: MAC 3411, MAC 3412, STA 3122, STA 3123, STA 3161	6-8
Electives		11-25
		60

<sup>1</sup> BCH 3034 may be taken in place of BCH 3033

<sup>2</sup> APB 2323, BOT 3800, BOT 3823, BSC 3023, BSC 3033, BSC 3913, BSC 3949, BSC 4914, BSC 4949, BSC 6916, EUR 3013, MCB 3000, and PCB 3700 are not applicable to this requirement.

<sup>3</sup> Electives will be chosen in consultation with faculty advisor.

<sup>4</sup> One upper division course in botany (except for BOT 3800, 3823), and at least two courses at the 4000 level or above 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 second semester at FIU and two semesters before graduation.
- b. A minimal grade point average of 3.6 based upon total college records or FIU records alone, whichever is higher.

##### Graduation with Honors:

- a. A minimal grade point average of 3.7 at the University.
  - b. Completion of Honors Curriculum.
1. 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.

### Master of Science in Biological Sciences

Cooperative program brochure available in Biological Science office.

### Minor in Biology

*Required courses:* BSC 1010 and 1011 with labs, and three additional courses, one of which must include a lab and one must be on



the 4000 level or above. Minimum credits beyond BSC 1010 and 1011 with labs are 10.

#### Minor in Human Biology

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

BSC 3023	(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	APB 3253, PCB 3701, ZOO 3730 and MCB 3000

#### Pre-Medical, Dentistry, Veterinary 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, MCB 3023, and ZOO 3603 are recommended as fulfilling requirements of many professional schools.

#### Certificate Program in Marine Sciences and in Tropical Commercial Botany:

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

### Course Descriptions

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

#### Definition of Prefixes

APB — Applied Biology; BCH — Biochemistry; BOT — Botany; BSC — Introductory Biology; EVR — Environmental Studies; MCB — Microbiology; OCB — Oceanography (Biological); PCB — Process Cell Biology; PLP — Plant Pathology; ZOO — Zoology. Lectures/Laboratories.

**APB 1102C Introductory Botany** (4)  
A history of mankind's study and use of plants, and a survey of plants of economic importance. Includes lab. No science prerequisite.

**APB 3253 Human Sexual Biology** (3)  
Development, structure, and function of the human organism from a sexual perspective; physiology of the adult human sexual response.

**BCH 3033 Introductory Biochemistry-Biomolecules** (4)  
**BCH 3033L Biochemistry Laboratory** (1)  
Introduction to the chemistry of proteins, carbohydrates, lipids and their constituents. Principles of enzymology, bioenergetics and metabolism. Prerequisites: Organic Chemistry I and II or permission of instructor.

**BCH 3034 Introductory Biochemistry-Metabolism** (4)  
Metabolism of carbohydrates, lipids, and nitrogenous substances; electron transport and oxidative phosphorylation. Prerequisites: Organic Chemistry I and II or permission of instructor.

**BCH 5315 Biochemistry I** (4)  
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** (4)  
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.

**BOT 3353C Morphology of Tropical Plants** (4)  
The origin and evolution of plants, especially vascular plants of tropical origin. Comparison of morphology, anatomy, reproduction, and fossil records of major groups. Includes lab. Prerequisite: A course in General Biology or permission of instructor.

**BOT 3663C Tropical Botany** (4)  
How environmental factors affect the distribution of vegetation, morphology and physiology of plants in the tropics. Emphasis on tropical plants of economic importance. Includes lab. Prerequisite: A course in General Botany.

**BOT 3723C Taxonomy of Tropical Plants** (4)  
Introduction to higher plant taxonomy, including nomenclature, modern systems of angiosperm classification, and angiosperm evolution. Emphasis on identification of tropical plant families and plants of economic importance. Course includes lab. Prerequisite: A course in General Biology.

**BOT 4314C Plant Development** (4)  
The development of seed plants, with particular reference to the anatomy, morphology, and reproduction of tropical flowering plants of economic importance. Practical instruction in tissue and organ culture and propagation (seeds and soft and woody cuttings). Includes lab. Prerequisites: BOT 4504 and permission of instructor.

**BOT 4504 Plant Physiology** (3)  
**BOT 4504L Plant Physiology Lab** (1)  
Plant growth and metabolism in relationship to environment. Prerequisite: Organic Chemistry I.

**BOT 5665C Advanced Tropical Botany** (4)  
A survey of subjects of current interest in tropical botany: physiological ecology, reproductive biology, architecture and demography. Includes a week of work in a tropical environment and local field studies. Includes lab. Prerequisites: Two courses in Botany or permission of instructor.

**BSC 1010 General Biology I** (3)  
**BSC 1010L General Biology Lab** (1)  
A survey of organismal biology; microbiology, botany and zoology.

**BSC 1011 General Biology II** (3)  
**BSC 1011L General Biology Lab** (1)  
Biomolecules, cells, energy flow, genetics, and physiology.

**BSC 3023 Human Biology** (3)  
**BSC 3023L Human Biology Lab** (1)  
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 non-science majors.

**BSC 3949 Cooperative Education in Biology** (3)  
A student majoring in biological sciences may spend several terms fully employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Co-op Education and major department.

**BSC 4104 Experimental Biology** (1-3)  
Laboratory techniques used in biological research. The techniques covered will depend upon the instructor. May be repeated for credit with different instructors. Prerequisite: Permission of instructor.

**BSC 4931 Senior Seminar** (1)  
An exploration of various research works in biological sciences. Oral presentation by the students is required.

**BSC 4934 Topics in Biology** (1-3)  
An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum.

**BSC 4949 Cooperative Education in Biology** (3)  
A student majoring in biological sciences may spend several terms fully employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Co-op Education and major department.

**BSC 6415 Animal Cells in Culture** (5)  
The biology of animal cells cultured in semi-synthetic media will be studied. Topics considered will be cell nutrition and growth, cell cycle analysis, cell transformation and differentiation, heterokaryons and somatic cell genetics. Prerequisites: Biology majors or consent of instructor.

**BSC 5931 Graduate Seminar** (1)  
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.

**BSC 5935 Topics in Biology** (1-3)  
An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Senior or graduate standing.

**BSC 6936 Topics in Biology** (1-3)  
Same descriptions BSC 5935. Prerequisite: Graduate standing.

**EVR 3013C Ecology of South Florida** (3)  
**EVR 5061 South Florida Ecology—Field Studies**  
See listing under Environmental Studies.

**MCB 3000 Introductory Microbiology** (3)  
**MCB 3000L Introductory Micro Lab** (1)  
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 3023 General Microbiology** (3)  
**MCB 3023L General Microbiology Lab** (1)  
Introduction to the principles and techniques of

microbiology, genetics, taxonomy, biochemistry and ecology of microorganisms. Prerequisites: One semester of Organic Chemistry; two courses in Biology.

MCB 5505 Advanced Virology (3)  
MCB 5505L Advanced Virology Lab (1)  
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 6735 Marine Microbiology (3)  
MCB 6735L Marine Microbiology Lab (1)  
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: MCB 3023 + L and BCH 3033 + L or PCB 3023 + L.

OCB 4010 Biological Oceanography (3)  
The basic aspects of biological, geological, chemical and physical oceanographic processes as they relate to marine organisms. Prerequisites: Eight semester hours of Biology.

OCB 4674L Techniques in Biological Oceanography (1)  
A laboratory course designed to acquaint the student with biological sampling techniques at sea. Shipboard experience will be required as part of the course. Prerequisites: Concurrent registration in OCB 4010; ZOO 3253 or a previous course in marine biology; registration in the Marine Science certificate program and permission of instructor.

OCB 5635 Coral Reef Ecology (3)  
OCB 5635L Coral Reef Ecology Lab (1)  
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.

ORH 441UC Applied Horticultural Physiology (4)  
Nursery and field environments and microclimates in relationship to plant growth. Soils and plant nutrition. Chemical regulation of plant growth. Course includes lab. Prerequisite: BOT 4504.

PCB 3043 Fundamentals of Ecology (3)  
PCB 3043L Fundamentals of Ecology Lab (1)  
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 3203 Cell Physiology (3)  
PCB 3203L Cell Physiology Lab (1)  
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: Eight semester hours of General Biology, General Physics, and Organic Chemistry.

PCB 3510 Issues in Genetics-recDNA and IQ (3)  
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 IQ inheritance. Suitable for non-science majors.

PCB 3513 Genetics (3)  
PCB 3513L Genetics Lab (1)  
Mendelian inheritance and introduction to molecular genetics.

PCB 3612 Sociobiology (3)  
A study of the population genetics-ethology based explanations of social behavior in animals.

PCB 3700 Foundations of Human Physiology (3)  
PCB 3700L Foundations of Human Physiology Lab (1)

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

PCB 3702 Intermediate Human Physiology (3)  
PCB 3702L Intern Human Phys Lab (1)  
Functions of the human body and the physicochemical mechanisms responsible for each organ's function. Prerequisite: General Biology.

PCB 3703 Human Physiology I (3)  
PCB 3703L Human Physiology I Lab (1)  
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 3704 Human Physiology II (3)  
PCB 3704L Human Physiology II Lab (1)  
Physiology of respiratory, gastrointestinal, excretory, endocrine and reproductive systems. Continuation of PCB 3703. Prerequisites: One year of Biology or Zoology; Chemistry, and Physics.

PCB 3873 Biological Foundations of Behavior (3)  
Biological bases of behavior emphasizing neural and hormonal mechanisms of integrated behavior. Lecture, conference, library or laboratory projects.

PCB 4233 Immunology (3)  
PCB 4233L Immunology Lab (1)  
Fundamentals of immunology including antibody structure, immunopathology, molecular recognition at cell surfaces and immunological aspects of cancer biology. Prerequisite: General Microbiology or permission of instructor.

PCB 4254 Developmental Biology (3)  
PCB 4254L Developmental Biology Lab (1)  
Comprehensive survey of principles of development and critical analysis of methods used to study these problems. Prerequisites: PCB 3513 and PCB 3203 or BCH 3033.

PCB 4324 Terrestrial Ecology (3)

PCB 4324L Terrestrial Ecology Lab (1)  
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.

PCB 4524 Molecular Biology (3)  
PCB 4524L Molecular Biology Lab (1)  
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. Prerequisite: Biochemistry or Genetics.

PCB 4673 Evolution (3)  
PCB 4673L Evolution Lab (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 4701 Human Systemic Physiology (3)  
Selected topics in human physiology with emphasis on topics of clinical significance. Prerequisite: Introductory human physiology or a college level course in biology or chemistry.

PCB 4723 Animal Physiology (3)  
PCB 4723L Animal Physiology Lab (1)  
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 or Biochemistry.

PCB 5195 Histochemistry/Microtechnique (3)  
PCB 5195L Histochem/Microtech Lab (1)  
Chemistry and use of fixatives and dyes; histochemistry emphasizes procedures used in research and pathology labs including techniques for enzymes, protein, carbohydrate, nucleic acids and lipids. Prerequisite: Biochemistry or Cell Physiology.

PCB 5205 Cell Physiology and Biophysics (3)  
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. Prerequisites: Calculus and Physical Chemistry or permission of instructor.

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

PCB 5615 Molecular and Organismal Evolution (3)  
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 (3)  
PCB 5835L Neurophysiology Lab (1)



Comparative neurophysiology; physico-chemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; sensory-motor function and neurophysiological basis of behavior. Prerequisites: Biochemistry, Cell Physiology, Calculus.

**PCB 5936 Topics in Genetics** (3)  
Areas of genetics not covered in most introductory courses will be examined: for example cytoplasmic inheritance, immunogenetics, eukaryotic genes, and population genetics. In addition, selected areas such as chromosome structure and recombination may be examined in depth. Prerequisites: PCB 3513 and PCB 3203, BCH 3033 or BCH 3034.

**PCB 6175 Biological Electron Microscopy** (5)  
Principles and techniques of transmission and scanning electron microscopy as applied to biological materials. Lecture-laboratory combination, enrollment limited. Prerequisite: Permission of instructor.

**PLP 4001 Plant Pathology** (4)  
The physiological interactions between plant host and pathogen, including a survey of the major disease problems of tropical plants. Introduction to the concept of integrated pest management. Includes lab. Prerequisite: BOT 4504 or permission of instructor.

**ZOO 3253 Marine Invertebrate Zoology** (3)  
**ZOO 3253L Marine Invert Zoology Lab** (1)  
Taxonomy, anatomy, development, physiology and ecology of major invertebrate phyla, excluding insects. Emphasis on marine invertebrates. Prerequisite: One year of biology or permission of instructor.

**ZOO 3513 Ethology** (3)  
The course is designed to introduce the student to the biological basis of behavior and to the ecological and evolutionary consequences of various behaviors. Prerequisite: One semester of zoology or two semesters of general biology.

**ZOO 3603 Embryology** (3)  
**ZOO 3603L Embryology Lab** (1)  
Animal morphogenesis. Laboratory must be taken with lecture. Prerequisites: One year of general biology with laboratory or general zoology and general botany with laboratory.

**ZOO 3731 Human Anatomy** (3)  
**ZOO 3731L Human Anat Demonstration** (1)  
Survey of organ systems of the human body with major emphasis on the skeletal, muscular, and peripheral nervous system. Demonstrations of the prosected human cadaver. Prerequisites: One year of general biology with laboratory or general zoology and general botany with laboratory.

**ZOO 3733 Human Gross Anatomy I** (3)  
**ZOO 3733L Human Gross Anat I Lab** (1)  
Structure and function of various tissues, organs and organ systems of the human body. Dissection of human cadaver material to reveal the relationships of the various organ systems of the body. Prerequisites: One year of general biology with laboratory or general zoology and general botany with laboratory.

**ZOO 3734 Human Gross Anatomy II** (3)  
**ZOO 3734L Human Gross Anat II Lab** (1)

Continuation of ZOO 3733. Prerequisites: One course in physiology; one course in anatomy.

**ZOO 4424 Herpetology** (3)  
Study of the biology of reptiles and amphibians with emphasis on the natural history and ecology of local species. Prerequisites: One year of biological sciences and ecology or permission of instructor.

**ZOO 3753 Histology** (3)  
**ZOO 3753L Histology Lab** (1)  
Microscopic anatomy of cells, tissues and organs. Prerequisites: General introductory college biology and organic chemistry.

**ZOO 4743 Neurosciences** (3)  
**ZOO 4743L Neurosciences Lab** (1)  
Structure and function of the human nervous system. Dissection and demonstration of the various parts of the human brain. Prerequisites: One course in physiology and one course in human anatomy.

**ZOO 5265 Biology of Crustaceans** (3)  
**ZOO 5265L Biology of Crustaceans Lab** (1)  
Morphology, physiology, systematics, and evolution of crustaceans.

**ZOO 5335 Systematic Zoology** (3)  
A practical and theoretical approach to evolutionary zoology. Prerequisites: Eight semester hours of biology or zoology.

## Chemistry

Arthur W. Herriott, *Professor*  
Leonard S. Keller, *Associate Professor*  
John T. Landrum, *Assistant Professor*  
Zaida C. Martinez, *Instructor and Coordinator of Chemistry Labs*  
Howard E. Moore, *Professor*  
John H. Parker, *Associate Professor*  
J. Martin Quirke, *Assistant Professor*  
John W. Sheldon, *Professor*

The Chemistry program is part of the Department of Physical Sciences. Additional information and counseling may be obtained from the Departmental Office.

LOCATION: Tamiami Campus.

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. Students interested in secondary teacher certification should contact the School of Education at 554-2721.

LOWER DIVISION PREPARATION:

*Required Courses:* One year of general chemistry with laboratory; algebra and trigonometry, (advanced high school courses in algebra and trigonometry are acceptable).

LOWER OR UPPER DIVISION

PREPARATION:

Differential and Integral Calculus I & II (MAC 3411 & 3412); Organic Chemistry I & II (CHM 3210, 3210L & 3211, 3211L); Physics with Calculus (PHY 3048, 3048L, 3049, 3049L).

UPPER DIVISION PROGRAM:

A total of at least 41 units in chemistry to include the following:

Semester Hours		
CHM 3120	Quantitative Analysis	3
CHM 3120L	Quantitative Analysis Lab	2
CHM 3410	Physical Chemistry I	3
CHM 3410L	Physical Chemistry Lab I	1
CHM 3411	Physical Chemistry II	3
CHM 3411L	Physical Chemistry Lab II	1
CHM 4130	Modern Analytical Chemistry	3
CHM 4130L	Modern Analytical Chemistry Lab	2
CHM 4220	Advanced Organic Chemistry	3
CHM 4320L	Research Techniques Lab	2
CHM 4490L	Molecular Spectroscopy Lab	1
CHM 4610	Advanced Inorganic Chemistry	3
CHM 4910L, CHM 4911L, CHM 4912L	Research and Independent Study in Chem.	3
CHM 4930	Senior Seminar	1
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At least six additional units in chemistry to include either:

CHM 4490	Molecular Spectroscopy	3
PHY 4604	Quantum Mechanics	3
One additional senior-level (4000) chemistry course		3
		6

At least three additional units to be chosen from the following list:

MAP 3302	Differential Equations	3
COP 3112	Introduction to Computers I	3
MAC 3413	Multivariable Calculus	3

*Electives:*

20

60

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Arts

This program is designed for students preparing for careers in medicine, dentistry, environmental studies, veterinary medicine, patent law, secondary science education, or criminalistics chemistry. Students should complement the basic curriculum with suitable electives chosen in consultation with an advisor. Students interested in secondary teacher certification should contact the School of Education at 554-2721.

LOWER DIVISION PREPARATION:

*Required Courses:* One year of general chemistry with laboratory; one year of general biology with laboratory; algebra with trigonometry (advanced high school courses in algebra and trigonometry are acceptable).

LOWER OR UPPER DIVISION

PREPARATION:

Differential and Integral Calculus I & II (MAC 3411 & 3412); Organic Chemistry I & II (CHM

3210, 3210L & 3211, 3211L; Physics (either PHY 3048, 3048L and 3049, 3049L or PHY 3053, 3053L and 3054, 3054L).

#### UPPER DIVISION PROGRAM:

A total of at least 16 units in chemistry to include the following:

	<i>Semester Hours</i>
CHM 3120 Quantitative Analysis	3
CHM 3120L Quantitative Analysis Lab	2
CHM 3400 Physical Chemistry for Life Sciences	3
CHM 3400L Physical Chemistry for Life Sciences Lab	1
CHM 4220 Advanced Organic Chemistry	3
CHM 4230L Structure Determination Lab	1
And at least one additional senior level (4000) course in chemistry	3
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#### Electives:

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44  

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60

#### Minor in Chemistry

Requires a total of at least 23 units in chemistry to include:

	<i>Semester Hours</i>
General Chemistry I & II (CHM 3045, 3045L and 3046 and 3046L)	9
Quantitative Analysis (CHM 3120, 3120L)	5
Organic Chemistry I & II (CHM 3210, 3210L and 3211, 3211L)	9
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#### Criminalistics-Chemistry Program

Criminalistics-Chemistry Core Requirements: Same as requirements for the BA degree in chemistry plus Modern Analytical Chemistry (CHM 4130, 4130L). (Degree granted by Department of Physical Sciences.)

#### Internship:

A 3-6 credit internship in the laboratory of a participating criminal justice agency.

#### Criminal Justice Coursework:

The student should take nine credits of criminal justice courses in consultation with an advisor in the Department of Criminal Justice, 940-5850.

#### Electives:

Coursework in the behavioral and political sciences, and upper division coursework in the biological sciences is recommended to total 60 semester hours.

#### DEGREE: Master of Science

The Department of Physical Sciences participates jointly 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 a FIU faculty member. Two Florida International University faculty members serve on each student's advisory committee. The degree is awarded by Florida Atlantic University.

#### 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 Academic Affairs. The student spends one or two semesters 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

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

#### Definition of Prefixes

CHM — Chemistry; CHS — Chemistry-Specialized; ISC — Interdisciplinary Natural Sciences.

CHM 3030 Survey of General Chemistry (3)

CHM 3030L Survey of General Chemistry Lab (1)

A basic one-semester survey course in chemistry for non-majors. Topics include atomic structure, stoichiometry, bonding, equilibrium, electrochemistry. Does not fulfill requirements for chemistry, biology or pre-med majors. Laboratory must be taken concurrently with the course. Prerequisite: One year of high school or college algebra.

CHM 3045 General Chemistry I (4)  
CHM 3045L General Chemistry Lab I (1)

Fundamental principles of general chemistry: States of matter, atomic structure, stoichiometry, chemical bonding, acid-base reactions, gas laws. Concurrent registration in both lecture and laboratory is required. Prerequisite: Second year high school algebra or college algebra.

CHM 3046 General Chemistry II (3)  
CHM 3046L General Chemistry Lab II (1)

Continuation of General Chemistry I (CHM 3045). Fundamental principles of chemistry: thermodynamics, solutions, kinetics, equilibrium and electrochemistry. Concurrent registration in both lecture and laboratory is required. Prerequisites: CHM 3045, 3045L.

CHM 3120 Quantitative Analysis (3)  
CHM 3120L Quantitative Analysis Lab (2)

Fundamentals of classical quantitative analysis. Topics include theory of precipitation, acid-base, and oxidation-reduction reactions, as well as an introduction to spectrophotometric methods of analysis, ion-exchange techniques and complex formation titrations. Laboratory must be taken concurrently with the course. Prerequisites: CHM 3045, CHM 3045L, CHM 3046, CHM 3046L.

CHM 3200 Survey of Organic Chemistry (3)  
CHM 3200L Survey of Organic Chemistry Lab (1)

A basic one-semester survey course in organic chemistry for non-majors presenting a broad background in the reactions and structures of organic molecules. Does not fulfill requirements for chemistry, biology, or pre-med majors. Labo-

ratory must be taken concurrently with the course. Prerequisites: CHM 3030, CHM 3030L.

CHM 3210 Organic Chemistry I (4)  
CHM 3210L Organic Chemistry Lab I (1)

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. Concurrent registration in both lecture and laboratory is required. Prerequisites: CHM 3046, CHM 3046L.

CHM 3211 Organic Chemistry II (3)  
CHM 3211L Organic Chemistry Lab II (1)

Continuation of CHM 3210, 3210L — Concurrent registration in lecture and laboratory required. Prerequisites: CHM 3210, 3210L.

CHM 3400 Physical Chemistry for the Life Sciences (3)  
CHM 3400L Physical Chemistry for the Life Sciences Lab (1)

Principles of physical chemistry with particular application to the life sciences. Topics include thermodynamics, equilibria, electrochemistry, and reaction kinetics. Laboratory must be taken concurrently with the course. Prerequisites: MAC 3411, 3412; PHY 3048, 3048L PHY 3049, 3049L, or PHY 3053, 3053L, and 3054, 3054L.

CHM 3410 Physical Chemistry I (3)  
CHM 3410L Physical Chemistry I Lab (1)

Principles of thermodynamics, gas laws, kinetic theory of gases, chemical equilibrium. Laboratory must be taken concurrently with the course. Prerequisites: MAC 3411, 3412; PHY 3048, 3048L, 3049, 3049L, and CHM 3120, 3211, and 3211L.

CHM 3411 Physical Chemistry II (3)  
CHM 3411L Physical Chemistry Lab II (1)

A continuation of CHM 3410, 3410L. Phase equilibrium of solids, liquids and gases, solutions of electrolytes and non-electrolytes, electrochemistry, kinetics in the gas phase and in solution, colloids and macromolecules. Laboratory must be taken concurrently with the course. Prerequisites: CHM 3410, 3410L.

CHM 3949-CHM 4949 Cooperative Education in Chemistry (3)

One semester of full-time supervised work in an outside laboratory. Limited to students admitted to the University Co-op Program. A written report and supervisor evaluation will be required of each student.

CHM 4090L Introduction to Scientific Glassblowing (1)

Basic glassblowing operations with glass tubing and rod are taught. Emphasis is on making and repair of scientific glassware. No prerequisites.

CHM 4130 Modern Analytical Chemistry (3)  
CHM 4130L Modern Analytical Chemistry Lab (2)

Instrumental methods of chemical analysis, including electroanalytical methods, gas and liquid chromatography, mass spectrometry, x-ray fluorescence, and spectrophotometric methods. Laboratory must be taken concurrently with the lecture. Prerequisites: CHM 3120, 3120L, CHM 3210, 3210L, CHM 3211, 3211L.



Physical Chemistry, PHY 3048, 3048L, PHY 3049, 3049L.

**CHM 4180 Special Topics in Analytical Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4130 or permission of instructor.

**CHM 4220 Advanced Organic Chemistry (3)**

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. Prerequisites: CHM 3210, CHM 3211, 3211L.

**CHM 4230L Structure Determination**

**Laboratory (1)**  
The qualitative analysis of organic compounds using modern spectroscopic, chromatographic and chemical methods. (Restricted to B.A. Chemistry majors). Prerequisites: CHM 3211, 3211L.

**CHM 4300 Bio-organic Chemistry (3)**

Chemistry of naturally occurring organic compounds of biological importance. The relationship between organic chemistry and the chemical reactions which constitute the living organism. Prerequisite: CHM 3211.

**CHM 4310 Special Topics in Organic Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisites: CHM 3211 and permission of instructor.

**CHM 4320L Research Techniques in Chemistry (2)**

Practical instruction in the more advanced manipulations and procedures of the modern chemistry laboratory. This course is designed to prepare a student for research in chemistry and is a prerequisite for independent study (CHM 4910L, 4911L, 4912 L). Prerequisites: CHM 3120, 3211, 3211L, 3410, 3410L.

**CHM 4490 Spectroscopy and Molecular Structure (3)**

Introduction to atomic and molecular quantum states, selection rules, and fundamental principles of spectroscopy. Introduction to group theory and to the theory of UV/visible, infrared, Raman, microwave, nmr, photoelectron, and mass spectroscopies, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisite: Physical Chemistry.

**CHM 4490L Spectroscopy and Molecular Structure Lab (1)**

The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 3211, 3211L. Co-requisite: PHY 4604 or CHM 4490.

**CHM 4580 Special Topics in Physical Chemistry (VAR)**

An intensive examination of one or more areas selected by the instructor and students. Prerequisite: Permission of instructor.

**CHM 4610 Advanced Inorganic Chemistry (3)**

Atomic structure, periodicity, bonding and

structure of inorganic compounds, solution chemistry, ligand field theory, organometallic chemistry, and specific chemistry of the elements. Prerequisites: CHM 3120, 3211. Co-requisite: CHM 3400 or CHM 3410.

**CHM 4680 Special Topics in Inorganic Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4610 or permission of instructor.

**CHM 4910 Research and CHM 4911 Independent**

**CHM 4912 Study in Chemistry (VAR)**

The student works directly with a professor on a research project. It is anticipated that the student presents the results of the project as a seminar (see CHM 4930). Credit is assigned on the basis of 4 hr/wk laboratory/library work per 1 hr of credit. It is recommended that the credits required of all BS chemistry majors be taken over 2 semesters. A written report is required.

**CHM 4930 Senior Seminar (1)**

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 Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4130 or permission of instructor.

**CHM 5250 Organic Synthesis (3)**

Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Prerequisite: CHM 4220, or permission of instructor.

**CHM 5260 Physical Organic Chemistry (3)**

A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc. Prerequisite: CHM 4220 or permission of instructor.

**CHM 5280 Natural Products Chemistry and Biosynthesis (3)**

Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins. Prerequisite: CHM 4220 or permission of instructor.

**CHM 5380 Special Topics in Organic Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4220 or permission of instructor.

**CHM 5440 Kinetics and Catalysis (3)**

Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prerequisites: CHM 3411, MAP 3302.

**CHM 5517 Solid State (3)**

Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, and di-

electric materials. Prerequisite: CHM 4490 or PHY 4604.

**CHM 5581 Special Topics in Physical Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 3411 or permission of instructor.

**CHM 5650 Physical Inorganic Chemistry (3)**

Introduction to use of physical methods to determine structure of inorganic compounds. Prerequisite: CHM 4610 or permission of instructor.

**CHM 5681 Special Topics in Inorganic Chemistry (VAR)**

An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4610 or permission of instructor.

**CHS 4100 Radiochemistry (2)**

**CHS 4100L Radiochemical Techniques Lab (2)**

Production, isolation, methods of detection, counting statistics and estimation of radioisotopes. Applications to chemical, physical and biological problems. Laboratory must be taken concurrently with the course. Prerequisites: CHM 3045, 3046, 3120, 3120L; MAC 3411, 3412.

**ISC 4041 Scientific Literature (1)**

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: 16 semester hours of science.

**OCC 3002 Chemical Oceanography (3)**

**OCC 3002L Chemical Oceanography Lab (1)**

A chemical composition and properties of seawater including major and minor elements, dissolved gases, buffering systems. Lecture and lab should be taken concurrently. Prerequisites: one year of general chemistry with lab; quantitative analysis with lab.

## Earth Sciences

Robert Dooley, *Assistant Professor*  
Grenville Draper, *Assistant Professor*  
Florentin J.-M.R. Maurasse, *Associate Professor*

Earth Sciences is part of the Department of Physical Sciences. The program is designed to prepare the student in the geological marine and environmental sciences. Well-equipped laboratories and extensive specimen collections expose students to apparatus and techniques not normally encountered in undergraduate programs. Additional information may be obtained from the Departmental Office.

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

This program prepares the student for graduate study or a career in the earth, marine, or environmental sciences.

**LOWER DIVISION PREPARATION:**

*Required Courses:* Four semester hours of general biology; four semester hours of physical geology or equivalent; four semester hours of historical geology; six semester hours of trigonometry and analytical geometry.

**LOWER OR UPPER DIVISION PREPARATION:**

At least six semester hours of differential and integral calculus; at least eight semester hours of general chemistry (including laboratory); at least eight semester hours of general physics with calculus (including laboratory).

**UPPER DIVISION PROGRAM:**

*Required Courses:* At least 39 semester hours of earth sciences are required including those marked with an asterisk:

	<i>Semester Hours</i>	
AST 3100	Modern Astronomy	3
GEO 3200*	Physical Geography	3
GEO 3200L	Physical Geography Lab	1
GLY 3200*	Mineralogy	3
GLY 3200L	Mineralogy Lab	1
GLY 3220*	Optical Mineralogy	3
GLY 3220L	Optical Mineralogy Lab	1
GLY 3760*	Geological Map Analysis	2
OCE 3322*	Physical Oceanography	3
MET 4701	Meteorology	3
GLY 4315*	Igneous and Metamorphic Petrology	3
GLY 4315L	Igneous and Metamorphic Petrology Lab	1
GLY 4401*	Structural Geology	3
GLY 4401L	Structural Geology Lab	1
GLY 4555*	Sedimentology	3
GLY 4555L	Sedimentology Lab	1
GLY 4650*	Paleobiology	3
GLY 4650L	Paleobiology Lab	1
GLY 4791*	Cartography and Geologic Surveying	3
GLY 4910	Independent Study	3
<i>Electives:</i>		21
		60

**LOCATION:** Tamiami Campus.

**DEGREE: Bachelor of Arts**

This program is for the student who requires a broad background in earth sciences for a career in science education or public or private administration dealing with earth and environmental sciences.

**LOWER DIVISION:**

Four semester hours of general biology; four semester hours of physical geology or equivalent; at least six semester hours of trigonometry and analytical geometry and at least eight semester hours of general chemistry.

**UPPER DIVISION PROGRAM:**

A minimum of 24 semester hours selected from the courses listed below. If some of these courses are unavailable, students can substitute other earth and environmental courses at their advisors' discretion.

<i>Semester hours</i>		
AST 3100	Modern Astronomy	3
MET 4701	Meteorology	3
GEO 3200	Physical Geography	3
GEO 3510	Earth Resources	3
OCE 3014	Physical Oceanography	3
EVS 4164	Applied Environmental Geology	3
EVR 4211	Water Resources	3
OCB 3010	Biological Oceanography	3
GLY 4650	Paleobiology	3
GLY 3200	Mineralogy	3
GLY 3760	Geological Map Analysis	2
GLY 4401	Structural Geology	3
GLY 4791	Cartography and Geological Surveying	3

(Note: Where a laboratory course is offered with a course student must take that laboratory).  
*Electives:* 36  
60

**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 Academic Affairs. The student spends one or two semesters 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**

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

**Definition of Prefixes**

EAS — Earth Science, EVS — Environmental Science; GEO — Geography-Systematic; GLY — Geology; MET — Meteorology; OCE — Oceanography; OCG — Oceanography-Geological; OCP — Oceanography-Physical.

**AST 3100 Modern Astronomy (3)**  
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.

**EVS 4164 Applied Environmental Geology (3)**  
**EVS 4164L Applied Environmental Geology Lab (1)**

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 geological 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 3200, and a sound background

in mathematics, physics, and chemistry. Laboratory must be taken concurrently with course.

**GEO 3200 Physical Geography (3)**  
**GEO 3200L Physical Geography Lab (1)**  
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 3510 Earth Resources (3)**  
A course for non-majors dealing with the nature, origin, and distribution of mineral resources. Geology of petroleum, coal, metals, etc., and problems of their exploitation and depletion.

**GLY 1015 Physical Geology (3)**  
**GLY 1015L Physical Geology Lab (1)**  
A basic introduction to geological materials, structures, and processes. Properties of the common minerals and rocks, evolution of surface features and the internal constitution of the earth are all discussed. One or two field trips are expected. No prerequisites. Lecture and lab should be taken concurrently.

**GLY 1100 Historical Geology (3)**  
**GLY 1100L Historical Geology Lab (1)**  
An introduction to the geological history of the earth and the geological time scale. Evolution of animals and plants. Prerequisite: GLY 1015 or GLY 3850 or equivalent. Lecture and lab should be taken concurrently.

**GLY 3157 Elements of Caribbean Geology (3)**  
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 3200 Mineralogy (3)**  
**GLY 3200L Mineralogy Lab (1)**  
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. Laboratory must be taken concurrently with course.

**GLY 3322 Optical Mineralogy (3)**  
**GLY 3322L Optical Mineralogy Lab (1)**  
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. Prerequisite: GLY 3200 or equivalent. Laboratory must be taken concurrently with course.

**GLY 3760 Geological Map Analysis (2)**  
Laboratory course dealing with analysis of geo-



logical maps and sections; theory and method of interpretation of surface outcrops on maps. Properties of simple geological structures. Recommended to be taken prior to GLY 4401 and GLY 4791. Prerequisites: Trigonometry, physical geology or equivalent (e.g. MAC 3132, GLY 3850 or equivalents).

**GLY 3850 Environmental Geology** (3)  
**GLY 3850L Environmental Geology Lab** (1)  
 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 3949/GLY 4949 Cooperative Education in Earth Science** (3)  
 One semester 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** (3)  
 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** (3)  
 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** (3)  
**GLY 4315L Igneous and Metamorphic Petrology Lab** (1)  
 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. Laboratory must be taken concurrently with course.

**GLY 4401 Structural Geology** (3)  
**GLY 4401L Structural Geology Lab** (1)  
 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. Laboratory must be taken concurrently with course.

**GLY 4450 Geophysics** (3)  
 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** (3)  
**GLY 4555L Sedimentology Lab** (1)  
 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. Laboratory must be taken concurrently with course.

**GLY 4650 Paleobiology** (3)  
**GLY 4650L Paleobiology Lab** (1)  
 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. Laboratory must be taken concurrently with course.

**GLY 4730 Marine Geology** (3)  
**GLY 4730L Marine Geology Lab** (1)  
 Survey of the main physiographic provinces of the ocean floor. Modern theories concerning the evolution of the crust; continental drifting, 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. Laboratory must be taken concurrently with course.

**GLY 4791 Cartography and Geological Surveying** (3)  
 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** (3)  
 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 exploitation. Prerequisite: GLY 3157 or instructor's permission.

**GLY 4816 Mineral Deposits** (3)  
**GLY 4816L Mineral Deposits Lab** (1)  
 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 neighboring areas. Prerequisites: Physical Geology or equivalent, GLY 3322, and chemistry. Laboratory must be taken concurrently with course.

**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. Variable credit to a maximum of 10 credits. Permission of the student's advisor is required.

**GLY 5620 Caribbean Stratigraphic Micropaleontology** (3)  
 Survey of the stratigraphy of biostratigraphic type-sections described in the Caribbean area. Deep-sea stratigraphy from both piston-cores and deep-sea drilling 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** (3)  
 Four-week field study of multiple tropical environments as illustrated in the Caribbean. Physico-chemical processes in the nearshore arenaceous, argillaceous and calcareous environments. Coral reef morphology, ecology and distribution patterns. Dynamical 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.

**MET 4701 Meteorology** (3)  
 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 3200, and competence in physics and calculus.

**OCE 3014 Physical Oceanography (3)**  
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 (3)**  
**OCG 6105L Advanced Marine Geology Lab (1)**  
Application of geophysical and geological data to the interpretation of the earth's crust under the oceans, including the data provided by deep-sea drilling, dredging, piston-coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of the Atlantic and Caribbean margins, and their potential for oil resources. Prerequisite: GLY 4730 or permission of instructor.

**OCG 6280 Marine Sedimentary Petrology (3)**  
**OCG 6280L Marine Sedimentary Petrology Lab (1)**  
Analysis of the genesis, distribution pattern, physical and chemical properties of marine sedimentary facies, with emphasis on deep-sea sediments. Topics include deep-sea diagenetic and lithification processes, their geochemical relationship in time and space. Prerequisite: GLY 4555 or permission of instructor.

**OCP 5291 Coastal Processes (3)**  
**OCP 5291L Coastal Processes Lab (1)**  
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.

## Economics

**Jorge Salazar-Carrillo, Professor and Chairperson**

**Manuel Carvajal, Associate Professor**  
**Robert Cruz, Assistant Professor**  
**Stanley Czamanski, Visiting Professor**  
**Irma de Alonzo, Associate Professor**

**Amitava Dutt, Visiting Assistant Professor**  
**Antonio Jorge, Professor**  
**Herman Liebling, Visiting Professor**  
**Panagis Liossatos, Associate Professor**  
**J. Kenneth Lipner, Assistant Professor**  
**Raul Moncarz, Professor**  
**D. Babatunde Thomas, Associate Professor**  
**Mira Wilkins, Professor**

The major in economics provides the student with an understanding of economic problems and institutions, and analytical tools to apply this knowledge to contemporary problems. The program is designed for the student desiring a career in 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.

**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 student who has not taken Principles of Economics must enroll in ECO 3003 and ECO 3011 during the first two semesters 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.

### UPPER DIVISION PROGRAM

	Semester Hours
<b>Major Required Courses:</b>	
ECO 3101 Theory of Price	3
ECO 3203 Aggregate Economic Analysis	3
ECO 3271 Topics in Theory	3
ECO 4417 Measurement and Analysis of Economic Activity	3
ECO 4422 Introduction to Econometrics	3
Additional Economics Courses*	15
Electives	30
	<hr/> 60

\*ECO 3003, ECO 3040 and ECO 3432 cannot be included in this grouping of Electives.

Students may choose to concentrate their studies in one of the following areas:

Urban and Environmental Economics; Labor Economics; International Economics, Economic Development; Monetary Theory; Latin American Economics; and Quantitative Methods

**Remarks:** 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

	Semester Hours
<b>Minor Required Courses:</b>	
ECO 3101 Theory of Price	3
and	
ECO 3203 Aggregate Economic Analysis	3
Additional Economics Courses*	9
	<hr/> 15

\*ECO 3003, ECO 3040, and ECO 3432 cannot be included in this grouping.

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

## Master of Arts in Economics

### A. Admission

To be admitted into the Master's degree program in Economics, a student must meet the University's graduate admission requirements and:

1. Have a B average (3.0) or higher during the last two years of undergraduate studies, or a combined score (verbal, quantitative, and analytic) of 1,500 or higher on the GRE, or both.
2. Receive approval of the departmental graduate committee;
3. Have taken as prerequisites intermediate microeconomics, intermediate macroeconomics, statistics, and calculus. A student who has not fulfilled all these prerequisites may be admitted on a provisional basis. Unless specifically exempted, the student must take these courses as required, obtaining no credit for them in the program.

\*If a student has taken the Graduate Record Examination before the new system was introduced and scored 1000 or better on the combined verbal and quantitative sections, the student does not have to retake the examination.

### B. Degree Requirements

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

	Semester Hours
<b>1. Core</b>	
ECO 5115—Advanced Microeconomic Theory	3
ECO 5206—Advanced Macroeconomic Theory	3
ECO 5423—Econometric Methods I	3

### 2. Additional Requirements

Students will be required to (a) write a thesis for 6 credits, (ECO 6971) or (b) take the advanced seminar in applied economics (ECO 5938), which involves writing a research paper. 12-15

### 3. Electives

A student must take at least four electives in economics. The additional one or two courses required to complete the Master's program may be taken in Mathematics, International Studies, the School of Business, the School of Public Affairs, or in other schools. The graduate committee must approve courses taken outside the department. 18-15

**Total Semester Hours** 30

### C. Graduation Requirements

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



## Course Descriptions

### Definition of Prefixes

ECO — Economics; ECP — Economic Problems & Policy; ECS — Economic Systems & Development.

### ECO 2013 Macro Principles (3)

Introduction to economics from the aggregate point of view. National income accounting, monetary and fiscal policy and their interaction in the economy.

### ECO 2021 Micro Principles (3)

Introduction to economics from the individual point of view. Traditional supply and demand determination and analysis.

### ECO 3003 Economics, Man and Society— Micro (3)

Relationship of economics to individual action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies and interest groups.

### ECO 3011 Economics, Man and Society— Macro (3)

Relationship of economics to aggregate income. 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 3040 Consumer Economics

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

Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics. Recommended preparation: ECO 3003 and 3011.

### ECO 3203 Aggregate Economic Analysis

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 and 3011.

### 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

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

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 and 3011.

### ECO 3933 Special Topics

A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

### ECO 3949 Cooperative Education in Economics

A student majoring in Economics may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

### ECO 4224 Issues in Money and Banking

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 4307 Radical Political Economy (3)

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 (3)

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 (3)

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

### ECO 4422 Introduction to Econometrics (3)

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 (3)

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. Prerequisites: ECO 3003 and 3011.

### ECO 4622 Economic Development of the United States (3)

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 (3)

The growth of American business from 1880 to present; integration, diversification, and foreign expansion. Business strategies and managerial structures.

### ECO 4632 European Economic History (3)

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 (3)

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 (3)

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 Relation (3)

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 (3)

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 (3)

Supervised readings, individual tutorial, and preparation of reports. Requires consent of faculty supervisor and Department Chairperson.

### ECO 4934 Special Topics

A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

### ECO 4949 Cooperative Education in Economics (3)

A student majoring in economics may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

### ECO 5116 Advanced Microeconomic Theory (3)

Competitive and monopolistic markets as they pertain to the theory of price, allocation of resources and comparative advantage. Development of consumer demand theory from neoclassical and modern viewpoints. Prerequisites:

Intermediate Microeconomics and Calculus I; Calculus II recommended.

# ECO 5206 Advanced Macroeconomic Theory (3)

State-of-the-art theories of sectoral expenditure and financial market equilibrium. Inflation, unemployment, macroeconomic dynamics. Prerequisites: Intermediate Macroeconomic Theory; Calculus I; Statistics. Calculus II recommended.

# ECO 5216 Monetary Theory and Policy (3)

Relationship of money supply and interest rate to economic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.

# ECO 5405 Mathematical Economics (3)

Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous fashion within an economic context. Prerequisites: Advanced Microeconomics and MAS 3412 or equivalent.

# ECO 5423 Econometric Methods I (3)

Practical and theoretical foundations of empirical economics. Knowledge in formulation, estimation, and evaluation of econometric models. Prerequisites: ECO 4417 or equivalent; Calculus I; Calculus II recommended.

# ECO 5617 Seminar in Economic History (3)

Topics in economic history, exploration of the economic history literature on a selected theme, student presentations. Prerequisite: Permission of instructor for undergraduates.

# ECO 5701 The World Economy (3)

Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program.

# ECO 5706 International Trade (3)

Positive and normative aspects of international trade. Theories of comparative advantage, commercial policy, trade and income distribution. Prerequisites: Advanced Microeconomic Theory; Calculus.

# ECO 5715 International Money (3)

Theory of international monetary equilibrium. Problems of international payments and exchange rate control; their effect on international monetary problems. Analysis of short and long term monetary flows and macroeconomic adjustment. Prerequisites: Advanced Macroeconomics and Calculus.

# ECO 5734 Multinational Corporations (3)

Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. State-owned multinational corporations. Prerequisite: Permission of instructor for undergraduates.

# ECO 5906 Advanced Individual Study (3)

Supervised readings, individual tutorial, and

preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

# ECO 5935 Special Topics

A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

# ECO 5938 Advanced Seminar in Applied Economics (3)

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

# ECO 5945 Internship (3)

Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the instructor.

# ECO 6115 Graduate Seminar in Economic Theory (3)

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

# ECO 6236 Money, Banking and Monetary Policy (3)

Monetary theory and its application. Consideration of central banking in the U.S. and its relation to the international economy, money markets, and financial intermediaries. Survey of current policy views.

# ECO 6425 Econometric Methods II (3)

A continuation of ECO 5424. Advanced single equation estimation, estimation of distributed lags, simultaneous equations, time series and models of qualitative choice. Prerequisites: ECO 5423 and MAS 3103 or equivalent.

# ECO 6506 Public Finance (3)

Partial and general equilibrium analysis of tax incidence efficiency, public goods, public pricing problems, the social rate of discount, and non-market decision making.

# ECO 6936 Special Topics

A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

# ECO 6938 Individual Graduate Study (6-9)

Supervised readings, tutorial and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

# ECO 6971 Thesis (10)

Writing and completion of thesis by candidate for a Master of Arts. Prerequisites: Student must be a Master's degree candidate, have had at least 35 hours of graduate work in economics; have a thesis topic approved by the Department's Graduate Committee and the permission from the instructor.

# ECP 3123 Economics of Poverty (3)

Poverty in the United States: its measurement and history. Theory of personal income distribution. Present and proposed policies to alleviate poverty.

# ECP 3303 Introduction to Environmental Economics (3)

Economic principles applied to environmental problems. Relationship of market and non-

market forces to environmental quality. Development of tools for policy analysis.

# ECP 3613 Introduction to Urban Economics (3)

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

# ECP 4004 Seminar on Current Economic Topics (3)

Faculty and student discussion of contemporary economic and social issues.

# ECP 4203 Introduction to Labor Economics (3)

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 (3)

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 (3)

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 (3)

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 5205 Labor and Human Resources (3)

Empirical and theoretical analysis of the factors determining employment and earnings, recent developments in the theory of labor supply, critiques of neoclassical theory, and current issues in public policy. Prerequisite: Calculus.

# ECP 5605 Urban and Regional Economics

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 6405 Industrial Organization (3)

The organization of the industrial economy with particular emphasis as to the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisites: Advanced Micro and Calculus.

# ECP 6704 Managerial Economics (3)

Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3003 and ECO 3011.

# ECP 6705 Macroeconomic Forecasting for Management (3)



Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6704.

**ECS 3003 Comparative Economic Systems (3)**  
Analysis of alternative economic systems of industrialized and emerging nations. Emphasis on the comparative study of the capitalist, socialist, and communist economic systems of the modern world.

**ECS 3402 The Political Economy of South America (3)**

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 (3)**  
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 (3)**

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.

**ECS 4024 Economic Planning (3)**

Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output and programming techniques). Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower.

**ECS 4403 The Latin American Economies (3)**

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 4404 Economic Integration—Latin America (3)**

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.

**ECS 4430 The Economic Development of Cuba — Past and Present (3)**

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 (3)**

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

**ECS 5025 Economic Problems of Emerging Nations (3)**

Specific economic problems of emerging nations and national groupings. Basic approaches to economic development; major proposals for accelerating development. Role of planning. Trade, aid and economic integration. Recommended preparation: ECO 3101 or ECO 3203.

**ECS 5405 Economics of Latin America (3)**

Dependence, population explosion, urban migration, agricultural reform, industrialization and import substitution, common markets. Prerequisite: Permission of instructor for undergraduates.

## English

Donald Watson, *Associate Professor and Chairperson*

Harry T. Antrim, *Professor*  
St. George Tucker Arnold, *Associate Professor*

Lynn M. Berk, *Associate Professor*  
Gisela Casines, *Assistant Professor*  
Maneck Daruwalla, *Assistant Professor*

Richard A. Dwyer, *Professor*  
Charles Elkins, *Associate Professor*  
Mary Jane Elkins, *Assistant Professor*

Peggy Endel, *Assistant Professor*  
Mary Free, *Assistant Professor*  
Virginia Gathercole, *Assistant Professor*

James Hall, *Associate Professor*  
Kenneth Johnson, *Assistant Professor*  
Kathleen McCormack, *Assistant Professor*

Asher Milbauer, *Assistant Professor*  
Carmela Pinto, *Assistant Professor*  
Richard Schwartz, *Assistant Professor*

Richard Sugg, *Associate Professor*  
J.C. Washington, *Lecturer*  
Butler H. Waugh, *Professor*

LOCATION: Both Campuses.

DEGREE: Bachelor of Arts

LOWER DIVISION REQUIREMENTS:

*Required Courses:* A two-semester survey of British or American Literature. This requirement can be fulfilled at the University.

*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).

## UPPER DIVISION PROGRAM:

*Semester Hours*

*Required Courses:* 30  
English

*Electives:* 30

The English Department recognizes a continuing obligation to insure that its majors write well. The Chairperson may require any English major to take the appropriate composition course. (Hours earned in ENC 3034 — 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.

Students in the Teacher Preparation Program carry two majors — English and English Education. They must request admission to both programs. English majors may also enroll in the Linguistics, American Studies, Ethnic Studies, and Women's Studies Certificate programs.

(See Modern Language listings for additional Linguistics courses.)

## 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 3011 Survey of American Literature I (3)**  
Students will read and discuss major American works written between 1620 and 1865. Works will be considered in an historical context.

**AML 3020 Survey of American Literature II (3)**

Students will read and discuss major American works written between 1865 and the present. Works will be examined in an historical context.

**AML 3271 Afro-American Literature (3)**

Study of Afro-American literature from Phyllis Wheatly 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 1946 to present. May be repeated.

**AML 4300 Major American Writers (3)**

Each section of this course will consider the works of one, two, or three major American writers. The writers studied in this course will change from semester to semester. The course may be repeated for credit.

**AML 4503 Periods in American Literature (3)**  
Individual sections will read and discuss works in the context of such historical settings as the

colonial, federal, antebellum, reconstruction, or modern periods of the American past. May be repeated.

### AML 5305 Major American Literary

#### Figures

Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin. May be repeated.

### CRW 4110 Writing Fiction

An intermediate course in writing fiction.

### CRW 4310 Writing Poetry

An intermediate course in writing poetry.

### ENC 1000C Writing Lab

This course is designed to improve the basic English skills of lower division students. Emphasis will be placed upon critical reading and expository writing (grammar, mechanics, organization).

### ENC 1101 Elements of Writing

The first course in composition. Students will study the basic principles of expository, persuasive, and reflective writing. They will write essays every week.

### ENC 1102 Techniques of Interpretation

A continuation of ENC 1101, this course approaches the development of sensitivity to the writings of others and further explores the techniques of composition and literary research.

### ENC 2001 Modes of Inquiry

A research and report writing course. A final research project is required. Basic bibliographical tools, library use, and technical and scientific reporting will be the main subject matter. There will also be an emphasis on style, structure, and tone in a variety of research modes.

### ENC 3034 Problems in Composition

A composition course designed to improve basic writing skills. Special attention will be paid to grammar, sentence construction, paragraph development, and overall organization.

### ENC 3200 Business Letters and Reports

Intensive instruction and practice in the organization, content, and style of business letters of all kinds: special correspondence formats (bid proposals, customer relations), memoranda, feasibility reports, speeches, and group conference reports.

### ENC 3210 Technical Writing

Effective presentation of technical and semi-technical information: technical description, information gathering, general technical reports, organization and development of information, process communication.

### ENC 3211 Report and Technical Writing

For business, professional, and scientific students needing practice in collecting, organizing, interpreting, and presenting factual material.

### ENC 3301 Expository Writing

An advanced composition course in the techniques of exposition, argumentation, and persuasion.

### ENC 4220 Report Writing

Instruction and practice in writing reports for

practical purposes. Collecting, organizing, and interpreting facts, then writing up findings in report form and style. Includes recommendation reports, use of graphical elements, writing manuals and instructions, physical research reports, feasibility reports, progress reports, other specialized report formats.

### ENC 4241 Scientific Writing

Develops skills necessary to write laboratory reports, scientific proposals, articles, research reports, progress reports, and seminar presentations.

### ENC 5012 Approaches to Literature

In this course, students will study the process of analyzing the meaning and artistry of literary texts. They will read and interpret representative poems, short stories, and plays.

### ENC 5120 Introduction to Film

This course will introduce students to the basic artistic and compositional elements of film and the analysis of the relationship between technical and aesthetic aspects of film. Prerequisite: ENC 1101.

### 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.

### ENG 3138 The Movies

Viewing and discussion of films, with attention to cinematic ways of story-telling and to the popular film as an expression of cultural values. May be retaken for credit with change of content.

### ENG 3949 Cooperative Education in English

A student majoring in English may spend several semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

### ENG 4022 Rhetoric and Poetics

Ancient and modern theory and practice in discussing the formal properties of elevated language.

### ENG 4033 Rhetoric and Communication: Black Rhetoric

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.

### ENG 4121 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.

### ENG 4132 Studies in the Film

Intensive examination of the work of a particular nation, 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 4906 Independent Study

Individual conferences, assigned readings, and reports on independent investigations, with the consent of the instructor.

### ENG 4936 Honors Seminar

Designed specifically for honors students and other superior, highly motivated students. Seminar topics will vary from semester to semester.

### ENG 4949 Cooperative Education in English

A student majoring in English may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

### ENG 5009 Literary Criticism and Scholarship

Techniques and goals of humanistic research, bibliography, and critical commentary.

### ENG 5018 Practical Criticism

Applies various critical theories — e.g. the formalistic, historical, structural, archetypal, sociological, etc. — to specific literary productions.

### ENG 5907 Independent Study

Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

### ENG 6909 Independent Study

Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

### ENL 3012 Survey of British Literature I

Students will read and discuss major British works written from the Old English period through 1750. Works will be examined within an historical context.

### ENL 3022 Survey of British Literature II

Students will read and discuss major British works written between 1750 and the present. The works will be examined in an historical context.

### ENL 4303 Major British Writers

Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

### ENL 4320 Shakespeare: Histories

Reading and informal dramatic interpretation of representative plays.

### ENL 4321 Shakespeare: Comedies

Reading and informal dramatic interpretation of representative plays.

### ENL 4322 Shakespeare: Tragedies

Reading and informal dramatic interpretation of representative plays.

### ENL 4503 Periods in English Literature

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.

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

**LIN 2000 Introduction to Language** (3)  
The study of the nature of human language, its origins, and its relation to thinking behavior, and culture. An examination of the similarities and differences between spoken human languages, animal languages, and nonverbal communication (including sign language); of language variation between dialects and between different historical stages of a language; and of writing systems.

**LIN 3013 Introduction to General Linguistics** (3)  
Study of the sounds, vocabulary and sentence patterns of standard modern English. Other topics include meaning, social and regional dialects, language change, and style.

**LIN 4142 Historical Linguistics** (3)  
The study of linguistic methodology for determining historical and genetic relationships among languages. Prerequisite: Introductory course in Linguistics or permission of instructor.

**LIN 4221 General Phonology** (3)  
The study of phonological processes in language and linguistic methodology for phonological analysis. Prerequisite: Introductory course in Linguistics or permission of instructor.

**LIN 4330 General Morphology and Syntax** (3)  
The study of linguistic methodology for determining the morphological and syntactic structures of languages. Prerequisite: Introductory course in Linguistics or permission of instructor.

**LIN 4341 Modern English Grammar** (3)  
Practical study of syntax.

**LIN 4403 Applied Linguistics** (3)  
Linguistics in the classroom. English as a second language. Stylistics. Dialects. Prerequisite: LIN 3013.

**LIN 4621 Black English** (3)  
This course is a linguistic approach to the characteristics and functions of Black English and the current social controversies surrounding it.

**LIN 4801 Semantics** (3)  
The study of the semantic structure of languages. The structures underlying the meanings of words and underlying syntactic structures. Prerequisite: Introductory course in Linguistics or permission of instructor.

**LIN 4905 Independent Study** (VAR)  
This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisite: Intro-

ductory course in Linguistics or permission of instructor.

**LIN 5107 History of the English Language** (3)  
Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century to modern times. Prerequisite: LIN 3013, or permission of instructor.

**LIN 5146 Historical and Comparative Linguistics** (3)  
The study of linguistic methodology for determining historical and genetic relationships among languages. Diachronic syntax and its methodology will be included. The relevance of historical comparative linguistics to similar processes found in language acquisition and to socio-linguistics will be studied. Prerequisite: Introductory course in Linguistics or permission of instructor.

**LIN 5206 Phonetics** (3)  
The study of the articulatory mechanisms used in producing speech sounds and of their acoustic properties. Ear training in the phonetic transcription of speech sounds used in the world's languages.

**LIN 5222 General Phonology** (3)  
The study of phonological process in languages and linguistic methodology for phonological analysis. Emphasis will be placed on recent theoretical questions concerning such issues as the abstractness of underlying forms, the naturalness of processes, and the relevance of markedness to a phonological description. Prerequisite: Introductory course in Linguistics, or permission of instructor.

**LIN 5331 General Morphology and Syntax** (3)  
The study of linguistic methodology for determining the morphological and syntactic structures of languages. Distinct theoretical approaches to analysis will be emphasized. The student will study recent developments in linguistics that bear on language-universal and language-specific aspects of morphology and syntax. Prerequisite: Introductory course in Linguistics, or permission of instructor.

**LIN 5342 Advanced Syntax** (3)  
This course will expose students to the theoretical models on which much contemporary work in English grammar is based. Students will read works on selected topics such as structural linguistics, transformational grammar, and case grammar. Specific content may change from semester to semester. May be retaken for credit when content changes. Prerequisite: LIN 4341, Modern English Grammar.

**LIN 5405 Applied Linguistics: Contrastive Analysis** (3)  
Participants will learn to contrast the structures of languages with respect to each of their major subsystems: their phonetic characteristics, and their phonological, morphological, syntactic, and semantic subsystems.

**LIN 5602 Language Contact** (3)  
A study of the language changes that occur when two or more languages come into contact with one another. The course will also examine

the characteristics of the individuals and communities involved in such contact.

**LIN 5715 Language Acquisition** (3)  
The study of the processes underlying normal first-language acquisition. The focus is on the development of the subsystems of language (i.e., the phonological, morphological, syntactic, and semantic subsystems) in the child's growing command of his native language.

**LIN 5805 Semantics** (3)  
The study of linguistic semantic language-universal and language-specific properties of the semantic structure of words in sentences will be considered. Recent debate and theoretical aspects, including those touching on the nature of word meaning, presuppositional-assertional grammar, and Speech-Act theory, will be read and discussed. Prerequisite: Introductory course in Linguistics, or permission of instructor.

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

**LIT 2010 Introduction to Fiction** (3)  
This course offers an introduction to the basic elements of prose fiction: symbolism, plot, imagery, structure, characterization, style, point of view. Prerequisite: ENC 1101.

**LIT 2030 Introduction to Poetry** (3)  
This course offers an introduction to the basic elements of poetry: imagery, figurative language, diction, style, tone, prosody. Prerequisite: ENC 1101.

**LIT 2040 Introduction to Drama** (3)  
This course will introduce the student to the basic elements of drama and its various forms, modes, and techniques. Students will read 10-12 plays by representative English, American, and European authors. Prerequisite: ENC 1101.

**LIT 2110 World Literature I** (3)  
This course surveys the literature of the Western world from the classical period through and including the Renaissance. It gives attention to the themes and world views these works embody, as well as to their artistry.

**LIT 2120 World Literature II** (3)  
This course surveys the literature of the Western World from the 17th century to the present. It gives attention to the themes and world views these works embody, as well as to their artistry.

**LIT 2930 Special Topics** (3)  
This course is designed to give students an opportunity to pursue special studies not otherwise offered. May be repeated.

**LIT 3200 Themes in Literature** (3)  
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 3383 Women in Literature** (3)  
Students will examine the images of women created by European and American writers. The course will also explore the roles, historical and contemporary, of women writers.

**LIT 3702 Major Literary Modes** (3)  
Individual sections will read and discuss the literary expression of heroic, tragic, comic, satire, mythic, realistic or others formalized views of human existence. May be repeated.

**LIT 3930 Special Topics** (3)  
A course designed to give students an opportunity to pursue special studies not otherwise offered.

**LIT 4001 Major Literary Genres** (3)  
Individual sections will read and discuss the form and development of novels, drama, poetry, short fiction, or such special forms as biographies, folk songs and tales, or essays, among other genres. May be repeated.

**LIT 4188 Regional Literature in English** (3)  
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 4403 Literature Among the Arts and Sciences** (3)  
Individual sections will relate the study of literature to other disciplines in the humanities, fine arts, the social and natural sciences. May be repeated.

**LIT 4930 Special Topics** (3)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

**LIT 5363 Literary Movements** (3)  
Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, the Harlem Renaissance, and others. May be repeated.

**LIT 5934 Special Topics** (3)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

**LIT 6934 Special Topics** (3)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

**MMC 4607 Structure and Function of Mass Media** (3)  
Will include the study of such topics as: mass communication and society, popular culture, communication and social order, classic studies in mass communication, propaganda.

**Ralph Clem, International Relations**  
**Grenville Draper, Physical Sciences**  
**Walter Goldberg, Biological Sciences**  
**Joel Gottlieb, Political Science**  
**Arthur Herriot, Physical Sciences**  
**James Hutchinson, Philosophy/Religion**  
**Farrokh Jhabvala, International Relations**  
**Leonard Keller, Physical Sciences**  
**David Lee, Biological Sciences**  
**John Makemson, Biological Sciences**  
**Zaida Martinez, Physical Sciences**  
**Florentin Maurrasse, Physical Sciences**  
**Howard Moore, Physical Sciences**  
**John Parker, Physical Sciences**  
**Jim Rotton, Psychology**  
**Martin Tracey, Biological Sciences**  
**William Vickers, Sociology/Anthropology**

This is an interdisciplinary program involving eight departments in the College: Biological Sciences, Economics, International Relations, Philosophy/Religion, Physical Sciences, Political Science, Psychology, Sociology/Anthropology. It prepares students to work in professions with an environmental emphasis. Students may choose either a Bachelor of Arts program or a Bachelor of Science program.

**LOCATION:** Tamiami Campus.

**DEGREE:** Bachelor of Science

**LOWER DIVISION PREPARATION:**

**Required Courses:** Equivalent of eight semester hours of general biology and general chemistry; three semester hours of algebra and trigonometry.

**Recommended Courses:** General Physics, Physical Geology, Conservation of Natural Resources, Man and Environment, Calculus.

**Lower or Upper Division Requirements:** ECO 3003 — Economics, Man and Society; COP 3110 — Introduction to Computers; STA 3122 — Introduction to Statistics. .... 9

**UPPER DIVISION PROGRAM:**

**Recommended Courses:**

CHM 3200	Survey of Organic Chemistry	3
ENC 3353	Technical Writing	3
POS 3044	U.S. Government and Politics	3

**Required Courses:**

CHM 3120 + L	Quantitative Analysis	5
ECP 3303	Environ. Economics	3
EVR 4211	Water Resources	3
EVR 4231	Air Resources	3
EVR 4311	Energy Resources	3
EVR 4920	Environmental Colloquium	3
	or	
EVR 4905	Independent Study	3
GLY 3850 + L	Environ. Geology	4
PCB 3043 + L	Fund. of Ecology	4
PUP 4203	Environ. Politics and Policy	3

	40
<b>Electives</b>	20
	60

an advisor. Examples are: Biology; Chemistry; Computer Science; Geology; Water, Air or Energy Resources. Minors are encouraged.

**LOCATION:** Tamiami Campus.

**DEGREE:** Bachelor of Arts

**LOWER DIVISION REQUIREMENTS:**

**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	3
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**UPPER DIVISION PROGRAM:**

**Required Courses:**

ANT 3403	Cultural Ecology	3
ECP 3303	Introduction to Environmental Economics	3
EVR 3010	Energy Flow in Natural and Man-made systems	3
EVR 3011	Environmental Resources and Pollution	3
EVR 3013C	Ecology of South Florida	4
EVR 4905	Independent Study or Community Project	3
EVR 4920	Environmental Colloquium	3
PUP 4203	Environmental Politics and Policies	3
REL 4440	Man and Nature	3
		31

**Area of Specialization Courses:**

The student must take at least nine additional credits in an approved area of specialization. Minors are encouraged. .... 9

	40
<b>Electives</b>	20
	60

**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 Academic Affairs. The student spends one or two semesters fully employed in industry or a governmental agency. For further information consult the Department of Cooperative Education.

**Environmental Internships**

Students interested in job-related academic internships should contact their advisor. Two internships are regularly available at the Big Cypress Nature Center as Naturalist Assistants (Naples, Fla.). Details on compensation, benefits and academic credit can be obtained from Dr. J. Gottlieb (Political Science).

**Course Descriptions<sup>1</sup>**

**Definition of Prefixes**

EVR — Environmental Studies.

## Environmental Studies

George Dalrymple, *Director, Biological Sciences*

Ken Boodhoo, *International Relations*

Jerry Brown, *Sociology/Anthropology*

Students are urged to develop an area of specialization of 12 to 15 credits, in consultation with



**EVR 3010 Energy Flow in Natural and Man-Made Systems (3)**

A course for non-science majors, emphasizing the study of energy flow and energy resources in natural ecosystems, agriculture and the global food and population crises, and land use.

**EVR 3011 Environmental Resources and Pollution (3)**

A course for non-science majors, emphasizing air and water pollution, water resources, earth resources, solid waste disposal, noise pollution, and weather patterns.

**EVR 3013C Ecology of South Florida (4)**

A course for non-science 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, endangered species, and wilderness issues.

**EVR 3931 Topics in Environmental Studies (3)**

An intensive analysis of several current environmental topics. Recommended for primary and secondary school teachers.

**EVR 4021 Survey of Environmental Problems I (3)**

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 (3)**

A continuation of EVR 4021.

**EVR 4211 Water Resources (3)**

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 (3)**

Common air pollutants — their sources and methods of control. Different legislative and administrative approaches will be studied. Prerequisite: General chemistry.

**EVR 4311 Energy Resources (3)**

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 (3)**

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 (3)**

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 (3)**

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 5311 Energy Resources and Systems Analysis (3)**

Detailed analysis of energy flows in natural and man-made systems. Energy systems analysis. Energy use patterns. Conventional and alternate sources of energy.

**EVR 5935 Special Topics (VAR)**

A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

**EVR 5936 Topics in Environmental Studies (3)**

An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

**EVR 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 Environmental Studies (3)**

One semester 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.

<sup>1</sup>Course descriptions are also found in catalog sections of all participating departments. For assistance see an advisor.

## History

Howard Kaminsky, *Professor and Chairperson*

Eric Leed, *Associate Professor*

Brian Peterson, *Associate Professor*

Joyce Peterson, *Assistant Professor*

Darden Asbury Pyron, *Associate Professor*

Howard Rock, *Associate Professor*

Mark D. Szuichman, *Associate Professor*

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Arts (Students inter-

ested in teacher certification are referred to the School of Education).

**LOWER DIVISION PREPARATION:**

*Required Courses:* None

**UPPER DIVISION PROGRAM:****Semester Hours**

A. HIS 3001 — Introduction to History, 3

or

HIS 3104 — Ideas and Methods of History 3

B. HIS 4935 — Senior Seminar in History 3

C. One course in each of the following areas:

1. Medieval Europe 3

2. Modern Europe 3

3. The United States 3

4. Latin America, the Caribbean, Asia, or Africa 3

\*The area numbers are indicated in brackets at the end of each course description.

D. Any four additional History courses 12

E. Electives to make up the prescribed total number of credit-hours required for graduation. 30

60

**Minor in History**

A. HIS 3001 — Introduction to History 3

B. Any four other History courses. 12

## Course Descriptions

**Definition of Prefixes**

AMH — American History; AMS — American

Studies; EDF — Education: Foundations; EUH —

European History; HIS — General; LAH —

Latin American History; WOH — World

History.

**AMH 2160 Democracy in America (3)**

Historical Analysis: The institutions, social order, and mentality of the United States in the 1830s, in reality and in their classic portrayal by Alexis de Tocqueville, *Democracy in America*.

**AMH 3012 American History, 1600-1763 (3)**

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 3013 American History, 1763-1877 (3)**

This course will cover the period characterized by "laissez-faire" ideology. 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 3020 American History, 1877-Present (3)**

The history of the U.S. during the last century. [3]

**AMH 3130 The American Revolution (3)**

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 the war had to the different classes of Americans. [3]

**AMH 3170 Civil War and Reconstruction (3)**

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** (3)  
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** (3)  
An examination of major trends, forces and personalities that have shaped the recent American past. [3]

**AMH 3275 The Kennedy Era** (3)  
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** (3)  
An examination of the social and cultural history of 20th century America through its movies. [3]

**AMH 3331 American Intellectual History I** (3)  
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** (3)  
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** (3)  
The personalities, policies and politics of American presidents in the 18th and 19th centuries. [3]

**AMH 3355 Twentieth Century American Presidents** (3)  
The personalities, policies and politics of American presidents from Theodore Roosevelt to the present. [3]

**AMH 3420 Florida History** (3)  
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** (3)  
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** (3)  
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** (3)  
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** (3)  
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** (3)  
Black society in the United States and its relation to the political, economic, social, and cultural history of America. [3]

**AMH 4041 Culture and Society in America** (3)  
An examination of American social and intellectual history from 1600 to the present through the study of the artifacts of material culture produced by that civilization, and the lives of the men and women who used and created them.

**AMH 4150 The U.S. in the National Period, 1750-1830** (3)  
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 4231 The Roaring Twenties and the Great Depression** (3)  
A political, economic, social, and intellectual history of the 1920s and the great depression of the 1930s.

**AMH 4400 Southern History** (3)  
An examination of the main themes and social forces that have shaped the southern experience and the southern intellectual tradition in a distinctive way within the larger historical reality of colonial anglo-America and the United States. The period covered is from initial exploration and settlement of Sir Walter Raleigh and John Smith to the present.

**AMH 4930 Topics in U.S. History** (3)  
Selected topics or themes in U.S. history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [3]

**AMS 4938 Seminar in American Studies** (3)  
Exploration in depth of topics in American Studies.

**EDF 3521 Education in History** (3)  
An examination of the concepts of childhood, and processes of social initiation in differing historical contexts.

**EUH 2092 The Classical Tradition: Individuals and Society** (3)  
Historical Analysis: The evolution of Greco-Roman, Christian, and aristocratic ideas of the

individual in relation to society in successive stages of Western Civilization. The primary sources are studied in their social, political, and institutional contexts.

**EUH 2405 Athens, Sparta, Peloponnesian War** (3)  
Historical Analysis: A study of the Peloponnesian War, in Thucydides's classical history, that aims to introduce the student to the subject-matter of Western history and to the habits of critical thinking about the meanings of thought and action.

**EUH 3100 The Ancient Near East** (3)  
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** (3)  
A study of the development of humanism in Italy and Protestantism in Germany, and their impact on Europe in the fourteenth, fifteenth, and sixteenth centuries. [2]

**EUH 3186 King Arthur and His Knights** (3)  
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** (3)  
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** (3)  
The society, politics, and culture of Ancient Greece and Rome.

**EUH 3452 The French Revolution and the Enlightenment** (3)  
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** (3)  
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** (3)  
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]

**EUH 3576 The Russian Revolution and the Soviet Union** (3)  
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** (3)  
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** (3)  
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 3613 Modern Europe in Film, Art and Literature, 1789-1914** (3)

An examination of European cultural history between the French Revolution and the outbreak of the First World War. This is an introductory course with a strong emphasis on film.

**EUH 3614 Contemporary Europe in Film, Art and Literature, 1914-Present** (3)

An examination of European cultural history between the outbreak of the First World War and the present. This is an introductory course with a strong emphasis on film.

**EUH 4006 Modern Europe, 1789-Present** (3)  
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 4121 Europe in the Earlier Middle Ages** (3)

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** (3)  
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]

**EUH 4187 Topics in Medieval European History** (3)

Selected topics or themes in Medieval history. The themes will vary from semester to semester. 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** (3)

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** (3)

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, 1789-1914** (3)

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, 1914-Present** (3)  
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]

**EUH 4286 Topics in European History** (3)

An examination of selected topics or themes in early modern and modern European history. The themes will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule.) [2]

**EUH 4520 The Classical Age: England in the 18th Century** (3)

Exploring one of the greatest eras in English history, this course will cover the growth of the British empire, crown and parliament, the industrial revolution, social problems and English culture.

**HIS 2302 Foundations of Industrial Civilization** (3)

Historical Analysis: A course designed to explore the uniqueness of industrial civilization. How does industrial society differ from pre-industrial societies? What sorts of changes have taken place within industrial civilization over the past two hundred years? What is the range within industrial societies of possible forms of social organization?

**HIS 3001 Introduction to History** (3)  
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** (3)

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** (3)

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** (3)

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 crystallized class structures.

**HIS 3473 The History of Science and Technology** (3)

This course will examine the history of western civilization in terms of the development of science and technology. It will focus upon the in-

vention of new techniques and productive processes, and upon the way technology and science have shaped western society, particularly in regard to art and ideas.

**HIS 3930 Special Topics** (3)

An examination of specific themes or topics in history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule.)

**HIS 4282 Europe in the Americas: Comparative Colonial Societies** (3)

A comparative analysis of the colonial experiences of Spanish Latin America and British North America. This course will discuss economic, social, political, religious, and cultural growth, focussing on influences of the mother countries.

**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 semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule.)

**HIS 4935 Senior Seminar in History** (3)

A seminar to be taken by all history majors, to provide experience in research, writing and critical analysis.

**HIS 5289 Comparative History** (3)

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

**HIS 5908 Independent Study** (VAR)

Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor.

**HIS 5910 Advanced Research and Seminar** (3)

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 semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule.)

**LAH 2722 The Latin Americans** (3)

Historical Analysis: An examination of the evolution of symbols of status and power, and of the socio-economic relationships among groups within the various Latin American regions.

**LAH 3020 Introduction to Latin American History** (3)

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** (3)  
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** (3)  
The socio-economic and political setting in Cuba since the mid-nineteenth century. [4]

**LAH 4132 The Formation of Latin America** (3)  
An examination of Latin America in the formative period, focusing upon the Iberian experiences, conquest, reconquest, ethnic amalgamation, and Latin American economic and social organization in the 15th and 16th centuries. [4]

**LAH 4133 Spain in America** (3)  
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** (3)  
A review of important issues of nation-building in the more influential Latin American countries. Topics will include federalism, centralism, immigration, economic development, and imperialism. [4]

**LAH 4300 Twentieth Century Latin America** (3)  
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** (3)  
Selected topics or themes in Caribbean history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

**LAH 4511 Order And Revolt in Argentina** (3)  
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** (3)  
Selected topics or themes in Latin American history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

**LAH 5305 20th Century Latin American History** (3)  
Advanced analytical studies of socioeconomic phenomena in Latin America: race relations, authoritarianism, modernization, migration, capitalism, and the State.

**WOH 3002 History of Western Civilization** (3)  
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 Contemporary World, 1945-Present** (3)  
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.

**WOH 3280 Women's History** (3)  
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.

**WOH 3283 Jewish History** (3)  
A survey of the major currents of Jewish history.

**WOH 3300 Third World Civilizations** (3)  
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

Charles Elkins, *Associate Professor, English, Associate Dean, and Acting Director of Humanities*

Kenneth Henley, *Associate Professor, Philosophy*  
Ramon Mendoza, *Professor, Modern Language*

Joyce Peterson, *Assistant Professor, History*  
Richard P. Sugg, *Associate Professor, English*

The Humanities program offers a structured interdisciplinary curriculum designed to confront the student with values and issues concerning man and society, extending beyond the scope and methodology of natural and social sciences.

The program focuses primarily upon the nature of man and his values, his major concerns in society, and his views of the world. These concerns are, and have been through the ages, the preferred object of thought of philosophers, poets, dramatists, fiction writers, 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 production 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 atti-

tudes 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 the 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.

LOCATION: Bay Vista Campus

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:

A. Three required Humanities courses:

HUM 3211 Introduction to Humanities: Ancient Through Medieval World  
HUM 3230 Introduction to Humanities: Renaissance Through Modern World  
HUM 4920 Humanities Colloquium

B. Five courses chosen from the contributing disciplines (English, Modern Languages, Philosophy and Religion, History, and Visual Arts). No more than two courses may be from the same discipline.

C. Three courses chosen from additional Humanities courses; these additional Humanities courses include:

\*HUM 3813 and 3941 Applied Humanities  
\*HUM 3302, 3872, and 3891 Perspectives of the Humanities  
\*HUM 4450 and 4491 Cultural Heritages and Cultural Changes  
\*HUM 4391 and 4542 Human Concerns  
HUM 4406 The Film  
HUM 4496 Latin American Civilization  
\*HUM 4906 Humanities Independent Study

\*(With instructor's permission, these may be repeated for credit.)

D. Nine general elective courses. These courses may be outside of the Humanities and its contributing disciplines.

Language Requirement:

Students must demonstrate a reading knowledge of a language other than their native tongue equivalent to the end of the third semester of beginning language instruction. This requirement may be satisfied by completing 9 hours of language instruction or by passing a competency examination administered by the Department of Modern Languages.



## Course Descriptions

Definition of Prefixes  
HUM — Humanities

### HUM 3211 Introduction to the Humanities:

Ancient World Through  
Medieval World

(3)

Explores the culture of the ancient world and medieval from an interdisciplinary perspective and studies the varying conceptions of the individual, society and nature.

### HUM 3230 Introduction to the Humanities:

Renaissance Through  
Modern World

(3)

Explores the culture of the Renaissance and modern world from an interdisciplinary perspective and studies the varying conceptions of the individual, society and nature.

### HUM 3302 & 3872 & 3891 Perspectives of

the Humanities

(3)

Addresses topics in the Humanities through specified disciplinary approaches. (With consent of the instructor, this course may be repeated for credit).

### HUM 3813 & 3941 Applied Humanities

(3)

Explores the nature, role and impact of the Humanities in society and addresses specific methodological and practical issues to be announced in advance. The requirements of this course may include projects outside the classroom. (With consent of the instructor, this course may be repeated for credit).

### HUM 3949 Cooperative Education in

Humanities

(3)

A student majoring in Humanities may spend one or two semesters fully employed in industry in a capacity relating to the major.

### HUM 4391 & 4542 Human Concerns

(3)

Examines concerns important to the human condition, including varying conceptions of human nature, the relation of the individual to society, the quest for identity, the search for meaning through literature, art and social institutions. (With consent of the instructor, this course may be repeated for credit).

### HUM 4450 & 4491 Cultural Heritages and

Cultural Changes

(3)

Focuses upon various cultures and their development, including such topics as: cultural evolution and revolution, ethnicity and pluralism, and subcultures and countercultures. (With consent of the instructor, this course may be repeated for credit).

### HUM 4920 Colloquium

(3)

Addresses a specific topic in depth from a variety of perspectives. Topics will be announced in advance. (With consent of the instructor, this course may be repeated for credit).

## International Relations

Ralph S. Clem, *Professor and Chairperson*

Ewart Archer, *Assistant Professor*

Ken I. Boodhoo, *Associate Professor*

Thomas A. Breslin, *Associate Professor*

Nancy E. Erwin, *Assistant Professor*

Farooq Jhavalva, *Associate Professor*

Antonio Jorge, *Professor*

Charles G. MacDonald, *Associate Professor*

Gregory B. Wolfe, *Professor and University President*

LOCATION: Both Campuses.

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

*Recommended Courses:* Economics, foreign languages, geography, history, international relations, introduction to statistics, political science, sociology.

UPPER DIVISION PROGRAM:

*Required Courses:*

CEA 3000	World Regional Geography	4
INR 3003	Foundations of International Relations	
INR 3013	Development of International Relations Thought	
INR 4605	Approaches to International Relations	

*Breadth Requirements:* 6

At least one course in each of the following: Area studies (regional courses on Europe, the Caribbean, Latin America, Africa, Asia, or the Soviet Union) ..... (AS)  
Population Studies or Geography ..... (PG)  
International Law or Organization ..... (IL)  
Issues and Problems in International

Relations ..... (IP)  
*Electives:* 10

Courses are 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., Latin American and Caribbean Studies).

Minor in International Relations:

5

A student majoring in another academic discipline earns a Minor in International Relations by successfully completing approved coursework in the Department of International Relations. This program must include:

- 1) Foundations of International Relations (INR 3003)
- 2) World Regional Geography (CEA 3000) or an approved course in Geography
- 3) A course in International Law or Organization
- 4) Two electives in International Relations

**The Dual Major and Certificates:** The student is encouraged to pursue a dual major or a certificate program to complement the International

Relations program. This allows the student to add an important dimension to the major.

## Course Descriptions

Definition of Prefixes

CPO — Comparative Politics; GEA — Geography-Regional (Area); HFT — Hospitality, Food, Tourism; INR — International Relations; POS — Political Science; PUP — Public Policy; SOC — Sociology.

### CPO 3326 Population and Geography

of the Caribbean (PG)

(3)

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

(3)

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 (PG)

(3)

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 (PG)

(3)

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 (PG)

(3)

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 (PG)

(3)

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 (PG)

(3)

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 (PG)

(3)

Introduction to the physical, social and cultural geography of China. Emphasis on population patterns, problems of population growth, regionalism.

**GEO 3471 Political Geography (PG) (3)**

Emphasis is given to man's organization of space, particularly as it pertains to the nation-state. Factors instrumental to determining the viability of states are included stressing unifying-repelling forces.

**GEO 5415 Topics in Social Geography (PG, IP) (3)**

Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisite: GEA 3000 or permission of instructor.

**HFT 3700 Tourism and International Affairs (IP) (3)**

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 (IP) (3)**

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 2001 Introduction to International Relations (3)**

Introduction to the interactions among international actors: states, international organizations, and transnational groups. Concepts such as power and national interest will be introduced.

**INR 3003 Foundations of International Relations (3)**

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 (IP) (3)**

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 3013 Development of International Relations Thought (3)**

The nature and characteristics of international relations from antiquity to the end of the First World War. Examination of the religio-philosophical, socio-economic and political ideas and systems associated with them. Study of select historical occurrences and patterns of social change and their interaction with the dynamics of international relations. Prerequisite: INR 3003.

**INR 3031 The Future of the International System (IP) (3)**

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 (IP) (3)**

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 (IP) (3)**

Examines selected world and regional issues and problems. Topics vary according to the instructor.

**INR 3214 International Relations of Europe (AS) (3)**

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 (AS) (3)**

A survey of the patterns of international relations in the post-colonial periods in east and southeast Asia. Political, military, and economic aspects examined.

**INR 3226 International Relations of South Asia (AS) (3)**

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 3232 International Relations of China (AS) (3)**

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 (AS) (3)**

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 (AS) (3)**

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 (AS) (3)**

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.

**INR 3403 International Law (IL) (3)**

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 (IL) (3)**

A study of public international law principles in selected areas such as treaties; state succession; law of the sea; air and space law; law of international economic institutions; international conflict resolution procedures.

**INR 3502 International Organizations (IL, IP) (3)**

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 (3)**

A student majoring in one of the Social Sciences (Economics, International Relations, Political Sciences, Sociology, or Psychology) may spend several semesters 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 (IP) (3)**

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 (IP) (3)**

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 (IP) (3)**

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 (IP) (3)**

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 4247 Caribbean Regional Relations (AS) (3)**

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 (IP)** (3)  
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 (AS, IP)** (3)  
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 (IL, IP)** (3)  
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 (IL, IP)** (3)  
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 (IL, IP)** (3)  
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** (3)  
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)

**INR 4931 Topics in International Relations** (3)  
Varies according to the instructor.

**INR 4949 Cooperative Education in Social Sciences** (3)  
A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

**INR 5607 International Relations and Development** (3)  
An analysis and conceptualization of the process of development as it takes place in the international context. Special attention given to the role of international organizations in promoting development and the manner in which

differences in developmental levels conditions international relations.

**INR 5906 Independent Study** (VAR)

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

**INR 6605 Contemporary International System** (3)  
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 (IL, IP)** (3)  
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 (IL, IP)** (3)  
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 UN. Environmental Agency.

## International Studies Master of Arts in International Studies

*Director: Farrokh Jhabvala (International Relations)*

*Interdepartmental Advisory Committee:*

Ralph Clem (*International Relations*)  
Howard Kaminsky (*History*)  
Jorge Salazar-Carrillo (*Economics*)  
John Stack (*Political Science*)  
William Vickers (*Sociology/Anthropology*)

LOCATION: Tamiami Campus.

The Master's program in International Studies is an interdisciplinary program designed to prepare students for careers in government, the private sector, or international agencies. The program focuses on the broad issue of socioeconomic development and provides students with a sound basis in the politics, the economics, the sociology, and the international aspects of development. The interdisciplinary character of the program ensures that the subject matter is treated as a whole. In addition, with the permission of the Interdepartmental Advisory Committee, students may take their electives in related fields such as business, education, or public administration.

Scholarships and assistantships are available.

### Degree Requirements

The Master of Arts in International Studies requires a minimum of 36 semester hours of coursework at the graduate level. Students may also have to satisfy prerequisites at the undergraduate level for some courses in the program. Such courses will not be counted toward the 36-

hour minimum requirement. (A maximum of 6 semester hours of graduate coursework may be transferred from other institutions of higher education subject to the approval of the Interdepartmental Advisory Committee).

**Core Courses:** 18 semester hours

CPO 5035	Politics of Development
ECS 5025	Economic Development
INR 5607	Int'l Rel & Development
INR 6008	Colloquium in Int'l Studies
POS 5706	Research Methodology
SOC 5338	Sociology of Int'l Development

**Electives:** 12 semester hours

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

**Thesis:** 6 semester hours

The thesis requirement will normally be undertaken after completion of a major portion of the coursework. The thesis must demonstrate an ability to organize existing knowledge, synthesizing the available information from more than one discipline, and focusing that knowledge to illuminate a problem, policy, or theory in International Studies. It must be presented to an Ad Hoc Thesis Committee named by the Interdepartmental Advisory Committee.

**Language Requirement:**

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

## Liberal Studies

*Janet F. Parker, Associate Professor, Psychology, and Director of Liberal Studies*

The Liberal Studies Program exposes the student to a wide range of courses offered by the College, while 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 to be taken as early as possible; (2) Interdisciplinary Colloquia, two courses involving faculty from several departments of the College, and dealing with interdisciplinary topics; (3) Scientific Analysis, two courses to expose the student to the scientific method and its application to problems in biology, chemistry, earth science, environmental science, and physics; (4) Humanistic Analysis, two courses dealing with the analysis of literary and historical texts or works of art and music; (5) Social Analysis, two courses to expose the student to the basic theories and methods of social scientists in the fields of anthropology, economics, political science, psychology, social-science-oriented history, and sociology; (6)

Artistic Creation, one course in studio art or music, creative writing, or theatre to allow the student to experiment with his or her 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.

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

*Required Courses:* none.

*Recommended Courses:* Arts and Sciences concentration recommended.

UPPER DIVISION PROGRAM:

*Semester Hours*

*Required Courses:* 11 courses 33

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 6

Humanistic Analysis 6

Social Analysis 6

Artistic Creation 3

Interdisciplinary Colloquia

offered by the Liberal

Studies Program 6

Foundations of Liberal

Studies 6

*Electives:* The remaining hours will be taken as electives.

Limitations: If the student wishes to obtain a second major concurrently, no more than three courses 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 two courses taken to meet the requirements of the minor may be counted towards the requirements of Liberal Studies. No student is allowed to take more than six courses in one discipline.

## Course Descriptions

### Definition of Prefixes

IDS — Interdisciplinary Studies; SSI — Social Sciences: Interdisciplinary

IDS 3930 Foundations of Liberal Studies (3)

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 (3)

A student majoring in Liberal Studies may spend several semesters 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 advisors.

IDS 4920 Liberal Studies Colloquia (3)  
Individual sections will study, from an interdisciplinary perspective, issues selected and presented jointly by College faculty. Specific topics will be announced in advance.

IDS 4930 Foundations of Liberal Studies (3)  
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 4949 Cooperative Education in Liberal Studies (3)

A student majoring in Liberal Studies may spend one or two semesters fully employed in industry in a capacity relating to the major.

SSI 3240 World Prospects and Issues (3)

This course examines, from a multidisciplinary point of view, specific global issues such as food, population, and arms control. The issues discussed may change from one semester to the next.

## Mathematical Sciences

Toby S. Berk, *Associate Professor and*

*Chairperson*

James F. Sliker, *Associate Professor and*

*Assistant Chairperson*

Dorothy W. Andreoli, *Assistant Professor*

Michael H. Andreoli, *Visiting Instructor*

David Barton, *Associate Professor*

Carlos W. Brain, *Assistant Professor*

Gerald M. Cohen, *Assistant Professor*

John C. Comfort, *Associate Professor*

Robert C. Fisher, *Professor*

Domitila Fox, *Instructor*

Gauri L. Ghai, *Associate Professor*

Susan G. Gorman, *Instructor*

Malcolm H. Gotterer, *Professor*

Carol D. Henley, *Instructor*

Ina Parks Howell, *Assistant Professor*

Paulette Johnson, *Assistant Professor*

William T. Kraynek, *Associate Professor*

Basil C. Krikeles, *Assistant Professor*

Mark A. Leckband, *Assistant Professor*

Wesley F. Mackey, *Assistant Professor*

Veljko Milutinovic, *Assistant Professor*

Jaimeendra K. Navlakha, *Assistant Professor*

William G. O'Brien, *Visiting Instructor*

David Ritter, *Assistant Professor*

Dev K. Roy, *Assistant Professor*

Richard L. Rubin, *Associate Professor*

Orlando Saulea, *Instructor*

Samuel S. Shapiro, *Professor*

Anthony C. Shershin, *Associate Professor*

Stephanie Siegel, *Instructor*

Matrid H. Whidden, *Instructor*

Willie E. Williams, *Associate Professor*

Ryuji Yamaguchi, *Assistant Professor*

## Computer Science

LOCATION: Tamiami Campus

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

As part of the 60 semester hours of lower division coursework necessary to enter this upper division major, note the following recommendations or course requirement, or both.

*Required Courses:*

Computer Programming in COBOL

Computer Programming in some other high level language

Calculus through infinite series

The equivalent courses at FIU are:

COP 3122 COBOL and Data

Processing

Introduction to

Computers

MAC 3411-2 Calculus I & II

UPPER DIVISION PROGRAM:

*Required Courses:*

ENC 3210 Technical Writing

STA 3033 Introduction to

Probability and

Statistics for CS

or

STA 3321-2 Mathematical Statistics

I & II

COP 3402 Assembly Language

Programming

MAD 3104 Discrete Mathematics

Introduction to Theory

of Algorithms

COP 3522 Programming

Methodology

COP 3530 Data Structures

CDA 4101 Structured Computer

Organization

COP 4610 Operating Systems

Principles

Plus one course from each of the following two lists.

LIST (1)

MAD 3305 Graph Theory

MAD 3401 Numerical Analysis

MHF 4302 Mathematical Logic

COT 5320 Theory of Computation

MAD 4203 Introduction to

Combinatorics

LIST (2)

CDA 3040 Computer Hardware

Fundamentals

CDA 4163 Data Communications

CDA 4171 Mini-computer

Architecture and

Applications

CAP 5721 Computer Graphics

COP 5540 Data Base and File

Organization

COP 5640 Compiler Construction

*Electives:* The balance of the 60 semester hours required for graduation may be chosen from any

courses in the University approved by the student's advisor.

*Remarks:* The student must consult his or her advisor concerning the mathematical sciences courses which may be used to satisfy the requirements for a computer science major.



**Minor in Computer Science****Required Courses:**

COP 3112	Introduction to Computers
COP 3402	Assembly Language Programming
COP 3522	Programming Methodology
COP 3122	Data Processing and COBOL

A grade of "C" or better in each of these courses is necessary for the minor.  
Plus, one other course in computer science at the 3000 or 4000 level acceptable for the major program.

**Remarks:** No mathematical sciences course 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.

## Computer Science

LOCATION: Tamiami Campus.

DEGREE: Master of Science

**Admission to the Program:**

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

1. A Bachelor's Degree in Computer Science or equivalent degree from an accredited university or college, or a Bachelor's degree from an accredited university or college and completion of courses COP 5506, Fundamentals of Computer Science I and COP 5608, Fundamentals of Computer Science II, with at least a "B" in each;
2. Acceptable courses in Calculus and Statistics;
3. Graduate Record Examination (GRE) of 650 quantitative and 500 verbal taken within the last five years;
4. Three letters of recommendation from persons in a position to judge the applicant's potential success in graduate study;
5. Approval of the Graduate Committee.

**Graduate Program of Studies:**

CIS 6937	Seminar in Contemporary Computer Science
COP 6515	Structured Programming
COP 6614	Advanced Operating Systems
COT 6315	Analysis of Algorithms
STA 6807	Queueing and Statistical Models
CIS 6971	Thesis

In addition, students must choose *three* courses from the following list, subject to the approval of the Graduate Committee.

CAP 5721	Computer Graphics
CDA 6166	Distributed Processing
CIS 6327	Statistical Computer Performance Evaluation
COP 5540	Data Base and File Organization

COP 5640	Compiler Construction
COP 6555	Survey of Programming Languages
COT 5320	Theory of Computation
COT 6127	Theory of Formal Languages
CRM 6121	Computer Management
MAD 5405	Numerical Methods
MAP 6127	Simulation and Modeling

After completion of all other required courses, students must conduct a research thesis. The topic must first be approved by the faculty member who will supervise the research, then by the Graduate Committee. The thesis will be accepted only after being read and approved by a Reading Committee. An oral defense is required before the Reading Committee.

**Remarks:** The program requires a "B" average or higher and a grade of "C" or higher in each course. A maximum of two courses may be transferred into the program from outside the University, subject to the approval of the Graduate Committee.

## Mathematical Sciences

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

**LOWER DIVISION PREPARATION:**

**Required Courses:** Calculus including multi-variable calculus; introductory course in computer programming; 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 (Fortran); MAS 3103 (linear algebra); and MAP 3302 (differential equations).

**UPPER DIVISION PREPARATION:****Required Courses:**

COP 3402	Assembly Language Programming
COP 3522	Programming Methodology
MAD 3104	Discrete Mathematics
MAD 3401	Numerical Analysis
MAD 3512	Introduction to the Theory of Algorithms
MAP 4401	Advanced Differential Equations
STA 3163-4	Statistical Methods I & II

In addition, *two* courses from the following list:

COP 3530	Data Structures
MAA 4402	Complex Variables
MAD 3305	Graph Theory
MAP 3103	Mathematical Modeling
MHF 4302	Mathematical Logic
STA 5446	Probability Theory

**Electives:** The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

**Minor in Mathematical Sciences**

**Required Courses:** MAC 3411-2-3. Calculus I-II-III (or equivalent).

**Four** courses from those approved for the Mathematical Sciences Major program. MAP 3302 and MAS 3103 may be included among these four courses. A grade of "C" or better is necessary for the minor.

**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.

## Mathematical Sciences

LOCATION: Tamiami Campus.

DEGREE: Master of Science

**Admission to the Program:**

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

1. Graduate Record Examination (verbal or quantitative portions) taken within the past 5 years.
2. Three letters of recommendation from persons in position to judge the applicant's potential success in graduate study.
3. Approval of the Graduate Committee.

**Prerequisites:**

COP 3112	Introduction to Computers
MAC 3413	Multivariable Calculus
MAP 3302	Differential Equations
MAS 3103	Linear Algebra
STA 3321-2	Mathematical Statistics I & II or
STA 3033	Introduction to Probability and Statistics or both
STA 3163	Statistical Methods I
STA 3321	and Mathematical Statistics I

**Required Courses:**

	Semester Hours
MAP 5117	Mathematical and Statistical Modeling 3
COP 5506	Fundamentals of Computer Science 6
STA 5206	Design of Experiments 3
STA 5606	Mathematical Techniques of Operations Research 3
MAP 6127	Simulation and Modeling 3

**Electives**

Research Project

9

3

**Remarks:** Students who have taken the undergraduate courses COP 3522 and COP 3530 may not take COP 5506 and must substitute another graduate course. In addition to these five courses, an additional *three* approved courses at the graduate level must be chosen. *One* graduate course may be taken outside the department with the approval of the graduate committee. It is recommended that a data base course be taken either within the department, COP 5540, or from the College of Business Administration, MAN 6837. For the final course, the student will be required to apply the techniques developed in his/her program of studies to the solution of a practical problem. The 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.

## Mathematics

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Calculus including multi-variable 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 (Fortran) MAS 3103 (Linear Algebra); and MAP 3302 (Differential Equations).

UPPER DIVISION PROGRAM:

**Required Courses:**

MAA 3200	Introduction to Analysis
MAA 4211	Advanced Calculus
MAS 4301	Algebraic Structures
STA 3321	Mathematical Statistics I

In addition, *three* courses from each of the following lists.

LIST (1)

MAD 4203	Introduction to Combinatorics
MAA 4402	Complex Variables
MTG 3212	Geometry
MAS 5215	Number Theory
MAA 4212	Topics in Advanced Calculus
MAS 4302	Topics in Algebraic Structures
MTG 4302	Topology

LIST (2)

MAP 4401	Advanced Differential Equations
MAD 3305	Graph Theory
MAP 3103	Mathematical Modeling
STA 3322	Mathematical Statistics II
MAD 3401	Numerical Analysis
MHF 4302	Mathematical Logic

**Electives:** The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Minor in Mathematics

**Required Courses:** MAC 3411-2-3 Calculus I-II-III (or equivalent).

**Four** courses from those approved for the Mathematics Major program. MAP 3302 and MAS 3103 may be included among these four courses. A grade of "C" or better in each of these courses is necessary for the minor.

**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/her advisor for an appropriate substitution for the requirement of the minor.

## Statistics

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Calculus including multi-variable calculus and an introductory course in computer programming.

**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); and COP 3112 (Fortran).

UPPER DIVISION PROGRAM:

**Required Courses:**

MAS 3103	Linear Algebra
STA 3163	Statistical Methods I
STA 3164	Statistical Methods II
STA 3321	Intro to Mathematical Statistics I
STA 3322	Intro to Mathematical Statistics II

**Five** additional approved Mathematical Sciences courses, with at least *three* in statistics

**Electives:** The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

**Remarks:** Statistics courses are listed under mathematical sciences. The student must consult his or her advisor to determine which courses, in addition to the required courses listed above, satisfy the requirements for a statistics major.

Minor in Statistics

**Required Courses:**

STA 3321	Introduction to Mathematical Statistics I
STA 3322	Introduction to Mathematical Statistics II
STA 3163	Statistical Methods I
STA 3164	Statistical Methods II

A grade of "C" or better in each of these courses is necessary for the minor.

**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 the 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.

## 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; HGA — 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 — Mathematics, History & Foundations; MTG — Mathematics, Topology and Geometry; STA — Statistics.

CAP 5721 Computer Graphics (3)  
The principles and techniques of interactive computer graphics. Characteristics of graphical output and input devices; representation and manipulation of graphical data; graphical language; raster graphics; applications. Prerequisites: MAC 3412 and either COP 5608 or both COP 5530 and CDA 4101.

CDA 3040/ETE 3650 Computer Hardware Fundamentals (3)

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 (3)

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 (3)

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 (3)

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. Prerequisite: CDA 4101.



- CDA 6166 Distributed Processing** (3)  
Study of distributed systems of user and equipment using data communications facilities. Analysis of system architecture, hardware, and software for system design. System integrity and performance issues and techniques are examined. Prerequisites: COP 6614 and CDA 4163.
- CIS 3905 Independent Study** (VAR)  
Individual conferences, assigned readings, and reports on independent investigations.
- CIS 3932 Special Topics** (VAR)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.
- CIS 4905 Independent Study** (VAR)  
Individual conferences, assigned readings, and reports on independent investigations.
- CIS 4932 Special Topics** (VAR)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.
- CIS 5908 Independent Study** (VAR)  
Individual conferences, assigned readings, and reports on independent investigations.
- CIS 5934 Special Topics** (VAR)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.
- CIS 6327 Statistical Computer Performance Evaluation** (3)  
An introduction of the tools for quantitative, statistical and rational design, analysis, and optimization of complex computer systems. Prerequisites: STA 6807 and COP 6614.
- CIS 6937 Seminar in Contemporary Computer Science** (3)  
Research Seminar in Contemporary Computer Science. Topics will vary from term to term. Prerequisite: Permission of instructor.
- CIS 6971 Thesis** (10)  
Prerequisite: Completion of all other requirements for the M.S. degree in Computer Science.
- COC 3300 Introduction to Computers and Computer Applications** (3)  
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** (3)  
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** (3)  
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 FORTRAN IV.
- COP 3122 Data Processing and COBOL** (3)  
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 3112 or COP 3172.
- COP 3172 Basic Programming for Business** (3)  
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. Prerequisite: None. Not acceptable for credit to computer science majors.
- COP 3402 Assembly Language Programming** (3)  
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 3522 Programming Methodology** (3)  
Major features of PASCAL; structuring of programs, documentation, debugging and testing, recursion, top-down design, BNF, linked lists, stacks and queues. Corequisite: COP 3402.
- COP 3530 Data Structures** (3)  
Basic concepts of data organization; introduction to PL/I; advanced debugging and testing; garbage collection; n-ary trees and graphs, internal and external sorting. Prerequisite: COP 3522. Corequisite: MAD 3512.
- COP 4610 Operating Systems Principles** (3)  
A study of the basic principles of modern multiprogramming 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 5506 Fundamentals of Computer Science I** (6)  
This accelerated and intensive course is for beginning graduate students without a Bachelor of Science in Computer Science. It covers the design of programs and associated data structures. Prerequisites: Admissions into a graduate program. COP 3112, MAC 3412, and STA 3033 or equivalent.
- COP 5608 Fundamentals of Computer Science II** (6)  
This is a continuation of COP 5506 covering computer organization and operating systems. Prerequisites: Admissions into a graduate program. COP 3402, and either COP 5506 or both COP 3522 and COP 3530.
- COP 5540 Data Base and File Organization** (3)  
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; or COP 5608.
- COP 5640 Compiler Construction** (3)  
Basic techniques of compilation; self-compilers; syntax encoding and recognition; code generation and optimization. Prerequisites: COP 3522, MAD 3512, and COP 3530.
- COP 6515 Structured Programming** (3)  
Study of systematic techniques of program control and development, including proof of program correctness and use of advanced programming techniques. Prerequisites: COP 3522 and COP 3530; or COP 5506.
- COP 6555 Survey of Programming Languages** (3)  
This course consists of a comparative study of programming languages including LISP (or SNOBOL-4), PASCAL, APL, PL/I (or ALGOL-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 or COP 5506.
- COP 6614 Advanced Operating Systems** (3)  
Topics in operating system design: concurrent, scheduling, security and protection, virtualizable architectures and monitors. Prerequisites: COP 4610 or COP 5608; and STA 6807.
- COT 5320 Theory of Computation** (3)  
An introduction to abstract machine theory, combinatorial systems and computable functions. Prerequisite: MAD 3512.
- COT 6127 Theory of Formal Languages** (3)  
Elements of language theory are introduced by way of describing regular, context-free, context-sensitive and generalized languages. Their properties and some of the existing parsing techniques are discussed. Prerequisite: MAD 3512 or permission of instructor.
- COT 6315 Analysis of Algorithms** (3)  
Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530 or COP 5506.
- CRM 6121 Computer Management** (3)  
This course deals with the effective evaluation and administration of the computer function within an organization. No prerequisites.

**MAA 3200 Introduction to Analysis** (3)  
Topics include: naive set theory, functions, cardinality, sequences of real numbers and limits. Emphasis on formal proofs. Prerequisite: MAC 3413.

**MAA 4211 Advanced Calculus** (3)  
An intense study of the foundations of calculus. Topics may include: the real number system, continuity, differentiation, Riemann-Stieltjes integration, and series of functions. Note: The student must complete MAA 3200 before attempting this course. Prerequisites: MAC 3413, MAS 3103 and MAA 3200.

**MAA 4212 Topics in Advanced Calculus** (3)  
A sequel to MAA 4211. Topics may include: theory of integration; analysis in several variables; and Fourier series. Prerequisite: MAA 4211.

**MAA 4402 Complex Variables** (3)  
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. Prerequisites: MAC 3413, and MAP 3302 or MAA 4211.

**MAC 3132 Pre-calculus Mathematics** (3)  
Topics to be covered include: functions, exponential and logarithmic functions, trigonometry and the basics of analytic geometry. Prerequisite: Two years of high school algebra.

**MAC 3233 Calculus For Business** (3)  
A one semester 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. Prerequisite: MAC 3132 or working knowledge of algebra.

**MAC 3411-MAC 3412 Calculus I & II** (3-5)  
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, infinite series, and Taylor series. Prerequisite: Trigonometry or MAC 3132.

**MAC 3413 Multivariable Calculus** (3)  
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.

**MAD 3104 Discrete Mathematics** (3)  
Sets, functions, relations, permutations and combinations, propositional logic, matrix algebra, graphs and trees. Prerequisites: COP 3112 and MAC 3411.

**MAD 3305 Graph Theory** (3)  
An introduction to the study of graphs. Topics include the following: paths and circuits, con-

nectedness, trees, shortest paths, networks, planar graphs, the coloring of graphs, and directed graphs. Applications of graphs to computer science will be discussed. Prerequisites: COP 3112 and either MAS 3103 or MAD 3104.

**MAD 3401 Numerical Analysis** (3)  
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 3112 and MAC 3412.

**MAD 3512 Theory of Algorithms** (3)  
Boolean algebra, switching circuits, finite state machines, formal languages, and models of computation. Prerequisite: MAD 3104.

**MAD 4203 Introduction to Combinatorics** (3)  
A survey of the basic techniques of combinatorial mathematics. Topics will include the Pigeonhole Principle, Binomial Coefficients, Inclusion-Exclusion, Recurrence Relations, and Generating Functions. Prerequisites: MAC 3413 or both MAC 3412 and MAD 3104.

**MAD 5405 Numerical Methods** (3)  
Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and nonlinear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAS 3103 and MAP 3302.

**MAE 4810-MAE 4811 Foundations of Mathematics I & II** (3-3)  
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 Mathematical Modeling and Applications** (3)  
A course to provide an understanding of the use of mathematical models in the description of the real world. Basic principles in the philosophy of formal model building as well as specific models will be considered. Prerequisites: MAS 3103 and either MAC 3413 or MAP 3302.

**MAP 3104 Topics in Mathematical Modeling** (3)  
A sequel to MAP 3103. In-depth study of techniques listed for MAP 3103. Prerequisite: MAP 3103.

**MAP 3302 Differential Equations** (3)  
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 Advanced Differential Equations** (3)  
A second course in differential equations. Topics may include: Bessel functions and other special functions arising from classical differential equations, Sturm-Liouville problems, partial differential equations, transform techniques. Prerequisites: MAP 3302 and MAC 3413.

**MAP 5117 Mathematical and Statistical Modeling** (3)  
Study of ecological, probabilistic and various statistical models. Prerequisites: MAC 3413, COP 3112, MAS 3103; and STA 3322 or STA 3164 or STA 3033.

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

**MAS 3103 Linear Algebra** (3)  
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 inverse; 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 Algebraic Structures** (3)  
An introduction to abstract mathematical structures of modern algebra. Fundamental concepts of groups, rings, and fields will be studied. Note: The student must complete MAA 3200 before attempting this course. Prerequisites: MAS 3103 and MAA 3200.

**MAS 4302 Topics in Algebraic Structures** (3)  
A sequel to Algebraic Structures. Topics may include: a continuation of the study of groups, rings and/or fields; polynomial domains; Euclidean domains; and Galois theory. Prerequisite: MAS 4301.

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

**MAT 3905 Independent Study** (VAR)  
Individual conferences, assigned readings, and reports on independent investigations.

**MAT 3930 Special Topics** (VAR)  
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)  
One semester 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)  
Individual conferences, assigned readings, and reports on independent investigations.

**MAT 4930 Special Topics** (VAR)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

**MAT 4943 Mathematical Sciences Internship** (VAR)  
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)  
One semester 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 5907 Independent Study** (VAR)  
Individual conferences, assigned reading, and reports on independent investigations.

**MGF 1202 Finite Mathematics** (3)  
Study of concepts and applications involving finite mathematical processes such as sets, combinatorial techniques, formal logic, discrete probability, linear systems, matrices, linear programming. Prerequisite: Working knowledge of high school algebra.

**MGF 3113 The Significance of Mathematics** (3)  
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** (3)  
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 Gödel and Church; recursive function theory; and idealized computers. Prerequisite: MAA 3200 or MAD 3512.

**MTG 3212 Geometry** (3)  
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** (3)  
An introductory course in topology requiring a prerequisite knowledge of 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. Prerequisites: MAC 3413, MAS 3103, and MAA 3200.

**STA 3013 Statistics for Social Sciences** (3)  
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 3033 Introduction to Probability and Statistics for CS** (3)  
Basic probability laws, probability distributions, basic sampling theory, point and interval estimation, tests of hypothesis, regression and correlation. Mini-tab will be used in the course. Prerequisite: MAC 3412.

✓ **STA 3122-STA 3123 Introduction to Statistics I & II** (3-3)  
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** (3)  
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 3163-STA 3164 Statistical Methods I & II** (3-3)  
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-parametric analysis. Prerequisite: College algebra or first course in statistics.

✓ **STA 3182 Statistical Models** (3)  
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** (3-3)  
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, estima-

tion, hypothesis testing (parametric and non-parametric), regression, analysis of variance, and design of experiments. Prerequisite: MAC 3413.

**STA 3905 Independent Study** (VAR)  
Individual conferences, assigned readings, and reports on independent investigations.

**STA 3930 Special Topics** (VAR)  
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

**STA 4173-HCA 4711 Statistical Applications in Health Care** (3)  
A course in descriptive and inferential statistics for the Health Sciences. 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.

✓ **STA 4502 Practical Nonparametric Statistics** (3)  
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 chi-square, 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** (3-3)  
An introduction to those topics in mathematics associated with studies in operations research. Topics include the following: linear programming and related topics, dynamic programming, queueing theory, computer simulation, network analysis, inventory theory, decision theory, integer programming. Prerequisites: MAS 3103 and either STA 3033 or STA 3322.

**STA 4664 Statistical Quality Control** (3)  
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)  
Individual conferences, assigned readings, and reports on independent investigations.

✓ **STA 5126/PSY 5206 Design of Experiments in Psychological Research** (3)  
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, 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.

**STA 5166/HCA 5713 Statistical Methods for Health Services** (3)

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.

**STA 5206 Design of Experiments** (3)

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 3164.

**STA 5207 Topics in Design of Experiments** (3)

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

**STA 5236-STA 5237 Regression Analysis I & II** (3-3)

A comprehensive review of the role of linear models in statistics. Extensive use is made of matrix notation. 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: MAS 3103 and either STA 3322, or STA 3033.

**STA 5446-STA 5447 Probability Theory I & II** (3-3)

This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAS 3413.

**STA 5606 Mathematical Techniques of Operations Research** (3)

This course surveys the mathematical methods used in operations research. Topics will be chosen from linear programming, dynamic programming, integer programming, network analysis, classical optimization techniques, and applications such as inventory theory. Prerequisite: MAP 5117. Corequisite: COP 3530.

**STA 5676 Reliability Engineering** (3)

This 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: dis-

tributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 3322.

**STA 5707/PSY 5246 Multivariate Analysis in Applied Psychological Research** (3)

Review of linear algebra. Topics include multiple regression, one and 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** (3)

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

**STA 5906 Independent Study** (VAR)

Individual conferences, assigned reading, and reports on independent investigation.

**STA 6807 Queueing and Statistical Models** (3)

Review of probability concepts, basic probability distributions, Poisson process, queueing models, statistical models. Prerequisites: Permission of Instructor, MAC 3412 and either STA 3033 or STA 3321.

**UPPER DIVISION PROGRAM:**

	<i>Semester Hours</i>
<i>Required Courses:</i> *	30
Foreign language	
<i>Electives:</i> *	30
	60

\*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.)

**REQUIREMENTS FOR ALL MODERN LANGUAGE MAJORS:**

All majors must have a designated faculty advisor, and all are required to take 30 semester hours in the Department of Modern Languages, with a grade of "C" or better.

**REQUIREMENTS FOR SPANISH MAJORS:**

To undertake a major in Spanish a student must demonstrate minimum proficiency in the language. This may be done by a written examination administered by the Department, or by completing SPN 3301 (Non-native speakers of Spanish) or SPN 3305 (Native speakers). SPN 3421 must be part of the 30 credit hours of upper division work taken (unless the student is exempted by examination), and credit hours must be distributed according to one of the following plans:

	A	B	C	
SPN 3421*	3	3	3	Sem. hours
Literature courses	9	9	6	Sem. hours
Linguistics courses	9	6	9	Sem. hours
Culture courses	—	3	3	Sem. hours
Departmental electives	9	9	9	Sem. hours

\*Unless exempted by examination, in which case the student has three additional hours of electives.

Introduction to General Linguistics (LIN 3010 or equivalent) must be taken before other linguistics offerings; otherwise, there is no prescribed sequence of courses for the major.

**REQUIREMENTS FOR FRENCH MAJORS:**

The requirements for a major in French are: three or four literature courses; one civilization course; one linguistics course. The remaining credits should be taken in language courses, such as FRE 3410, 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 LANGUAGE MAJORS:**

A major in a language other than Spanish or French may take only 21 credits in the major target language, but completion of at least two semesters 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.

**Minor in French Language and Culture**

A student majoring in another discipline may earn an academic major in French language and

## Modern Languages

R. Reinaldo Sánchez, *Associate Professor and Chairperson*  
 James O. Crosby, *Professor*  
 Maida Watson Espener, *Associate Professor*  
 Yvonne Guers-Villate, *Professor*  
 John B. Jensen, *Associate Professor*  
 David Jueda, *Instructor*  
 Ramón Mendoza, *Professor (Bay Vista Campus)*  
 Ana Roca, *Instructor*  
 Andrée Stayman, *Instructor*  
 Marcelle Welch, *Assistant Professor and Associate Dean*  
 Florence Yudin, *Professor*

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

*Required Courses:* Eighteen semester hours of elementary and intermediate foreign language or equivalent proficiency. If these courses are not completed prior to entry to the University, they will be required as part of the upper division program as non-major electives.



culture by taking 1) twelve semester hours of course work in French language: FRE 3410, FRE 3420/3421, FRE 3780; 2) three semester hours in French Civilization and Culture: FRE 3500 or FRE 4501; 3) three semester hours of restricted electives: courses in French linguistics, French translation skills or introduction to literature, FRW 3820.

#### Minor in Portuguese

A student majoring in another discipline may earn an academic minor in Portuguese by taking 12 semester hours of course work in the language at the level of POR 3420 or above, and six additional hours in Portuguese or in approved courses in a related discipline, such as linguistics or the civilization of Portuguese-speaking peoples.

#### Minor in General Translation Studies

In order to obtain an academic minor in General Translation Studies a student takes 12 semester hours in translation courses (FOT, FRT, or SPT prefix), with grades of B or better, and nine additional hours in courses of immediate relevance to the program, to be approved by the advisor. Normally these will be selected from among offerings in Political Science, Economics, International Relations, Sociology, Anthropology, Computer Science or Modern Languages.

## Basic Language Instruction

#### LOCATION: Both Campuses.

The department offers three-semester sequences of instruction in beginning and intermediate Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Portuguese, Spanish, Russian, and beginning instruction in other languages.

The courses in basic language instruction are designed primarily for persons wishing to acquire 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.

## Course Descriptions

#### Definition of Prefixes

ARA — Arabic Language; CHI — Chinese Language; FOL — Foreign Languages; FOT — Foreign Languages in Translation; FOW — Foreign Languages, Comparative Literature; FRE — French Language; FRT — French Translation; FRW — French Literature (Writings); GER — German Language; GET — German Translation; HBR — Hebrew; HUM — Humanities; ITA — Italian Language; ITT — Italian Translation; JPN — Japanese Language; LIN — Linguistics; POR — Portuguese Language; POW — Portuguese Literature (Writings); PRT — Portuguese Translation; RUS — Russian Language; SPN — Spanish Language; SPT — Spanish Translation; SPW — Spanish Literature (Writings).

ARA 3130 Arabic I (5)  
Provides training in the acquisition and application of basic language skills.

ARA 3131 Arabic II (5)  
Provides training in the acquisition and application of basic language skills.

ARA 3210 Arabic III (5)  
Provides intermediate training in the acquisition and application of basic language skills.

CHI 3130 Chinese I (5)  
Provides training in the acquisition and application of basic language skills.

CHI 3131 Chinese II (5)  
Provides training in the acquisition and application of basic language skills.

CHI 3210 Chinese III (5)  
Provides intermediate training in the acquisition and application of basic language skills.

FOL 3000 Elementary Foreign Language (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 (3)  
The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 3905 Independent Study (3)  
Project, field experience, readings, or apprenticeship.

FOL 3930 Special Topics (3)  
Readings and discussion of literary/linguistic topics to be determined by students and teacher.

FOL 3949 Cooperative Education in Modern Languages (3)  
A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend one or two semesters 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 (9)  
Intermediate level. One semester full-time credit in foreign residence and study. Individual cases will be evaluated for approval.

FOL 4013 Language Skills for Professional Personnel (VAR)  
The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

FOL 4905 Independent Study (VAR)  
Project, field experience, readings, or research.

FOL 4930 Special Topics (3)  
Independent readings, research, or project.

FOL 4935 Senior Seminar (3)  
Topics and approach to be determined by students and instructor.

FOL 4949 Cooperative Education in Modern Languages (3)  
A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend one or two

semesters 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 (9)  
Full-semester credit for foreign residence and study/work. (Approval of Department required).

FOL 5735 Romance Linguistics (3)  
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 (3)  
Masterpieces of world literature in English. Comparative use of the original text. Discussion and interpretation.

FOT 3120 Literature in Translation (3)  
Masterpieces of French literature in English. Comparative use of the original text. Discussion and interpretation.

FOT 3800 Translation/Interpretation Skills (3)  
Emphasis on basic principles and practice application.

FOT 3810 Creative Writing/Translation (3)  
Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.

FOT 4130 European Literature in Translation (3)  
For students proficient in more than one foreign language. Content and focus to be determined by student and teacher.

FOT 4801 Professional Translation/Interpretation (3)  
Techniques and resources for professional translation and interpretation. Prerequisite: FOT 3800.

FOT 5125 Literature in Translation (3)  
Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5131 Literature in Translation (3)  
Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5805 Translation/Interpretation Arts (3)  
Techniques of professional translation and interpretation. Prerequisite: FOT 4801.

FOW 3520 Prose and Society (3)  
The dynamics of participation and alienation between prose writers and their environment.

FOW 3540 Bicultural Writings (3)  
Experiment in linguistic pluralism. Content and focus to be determined by the international community.

FOW 3580 Intellectual History (3)  
The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.

- FOW 3582 Literature of Reform** (3)  
The consciousness of change in verbal art.
- FOW 3584 Literature of Repression** (3)  
The consciousness of constraints, their adoption and/or rejection in verbal art.
- FOW 4390 Genre Studies** (3)  
Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).
- FOW 4590 Creative Modes** (3)  
Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.
- FOW 4790 The Literary Generation** (3)  
The real and apparent shared ideals of an artistic generation, its influence and range.
- FOW 4810 Problems in Reading and Interpretation** (3)  
The identification and appreciation of techniques for sensitive reading and discussion of literary texts.
- FOW 5395 Genre Studies** (3)  
Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).
- FOW 5545 Bicultural Writings** (3)  
Experiment in linguistic pluralism. Content and focus to be determined by the international community.
- FOW 5587 Comparative Studies** (3)  
Cross-over and distinctiveness in a multi-language problem, period, or esthetic.
- FOW 5934 Special Topics in Language/Literature** (3)  
Content and objectives to be determined by students and teacher.
- FOW 5938 Graduate Seminar** (3)  
Topic and approach to be determined by students and instructor. (Approval of the Department required.)
- FRE 1135 Basic French I** (5)  
Course designed specifically for beginning university students with no previous language study. Emphasis on oral French and on acquiring basic language skills.
- FRE 1136 Basic French II** (5)  
Emphasis on oral French and on acquiring basic language skills. This course completes the lower-division language requirement.
- FRE 3000 Elementary French** (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.
- FRE 3130 French I** (5)  
Provides training in the acquisition and application of basic language skills.
- FRE 3131 French II** (5)  
Provides training in the acquisition and application of basic language skills.
- FRE 3210 French III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.
- FRE 3270 Foreign Study** (9)  
Intermediate level. One semester full-time credit for foreign residence and study. Individual cases will be evaluated for approval.
- FRE 3410 Advanced French Conversation** (3)  
To develop oral proficiency skills and a greater awareness of French culture.
- FRE 3415 Communication Arts** (3)  
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.
- FRE 3420 Review Grammar/Writing I** (3)  
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.
- FRE 3421 Review Grammar/Writing II** (3)  
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.
- FRE 3500 Civilization I** (3)  
Open to any student who understands the target language. The development of a particular civilization. Emphasis on the evolution of a society, its ideas and its values.
- FRE 3700 Introduction to General Linguistics** (3)  
Examination and synthesis of the concepts and perspectives of major contributions to language theory.
- FRE 3705 Applied Linguistics** (3)  
Examination of available linguistic materials for self-instruction. Problem solving in syntax and phonetics, through the application of modern/traditional methods.
- FRE 3780 Phonetics** (3)  
The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity.
- FRE 3820 Dialectology** (3)  
Definition and analysis. Problem-solving in dialect classification.
- FRE 3840 History of the Language** (3)  
The internal and external history of language development. Examination of model texts from key periods of evolution.
- FRE 4013 Language Skills for Professional Personnel** (VAR)  
The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).
- FRE 4470 Foreign Study: Advanced Language/Literature** (9)  
Full-semester credit for foreign residence and study/work. (Approval of Department required.)
- FRE 4501 Civilization II** (3)  
Open to any student who understands the target language. The making of a modern culture. The ideological, political and economic background of contemporary culture.
- FRE 4562 Studies in Bilingualism** (3)  
Readings and analysis of bilingual programs and binational goals.
- FRE 4791 Contrastive Phonology** (3)  
Contrasts in the sound systems of English and French.
- FRE 4800 Contrastive Morphology** (3)  
Contrasts in the morphology and syntax of English and French.
- FRE 4935 Senior Seminar** (3)  
Topic and approach to be determined by students and instructor.
- FRE 5060 Language for Reading Knowledge** (3)  
Designed primarily for graduate students who wish to attain proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.
- FRE 5061 Language for Reading Knowledge** (3)  
Emphasis on translation of materials from the student's field of specialization. Prerequisite: FRE 5060 or equivalent.
- FRE 5416 Communication Arts** (3)  
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.
- FRE 5565 Studies in Bilingualism** (3)  
Readings and analysis of bilingual programs and binational goals.
- FRE 5730 Special Topics in Linguistics** (3)  
Content to be determined by students and instructor. (Approval of Department required.)
- FRE 5908 Independent Study** (VAR)  
Project, field experience, readings, or research.
- FRT 3110 Literature in Translation** (3)  
Masterpieces of French literature in English. Comparative use of the original text. Discussion and interpretation.
- FRT 3800 Translation/Interpretation Skills** (3)  
Emphasis on basic principles and practice application.
- FRT 3810 Creative Writing/Translation** (3)  
Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation and interpretation.
- FRT 4801 Professional Translation/Interpretation** (3)  
Techniques and resources for professional translation/interpretation. Prerequisite: FRT 3810.
- FRT 5118 Literature in Translation** (3)  
Masterpieces of world literature. Open to students who are proficient in more than one language.
- FRT 5805 Translation/Interpretation Arts** (3)  
Techniques of professional translation and interpretation. Prerequisite: FRT 4801.
- FRW 3520 Prose and Society** (3)  
The dynamics of participation and alienation between prose writers and their environment.



- FRW 3580 Intellectual History** (3)  
The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.
- FRW 3582 Literature of Reform** (3)  
The consciousness of change in verbal art.
- FRW 3584 Literature of Repression** (3)  
The consciousness of constraints, their adoption and/or rejection in verbal art.
- FRW 3820 Stylistics/Explication de Texte** (3)  
Close reading and analysis of prose and poetry. Introduction to the methods of literary criticism. Selected readings in international sources.
- FRW 3905 Independent Study** (3)  
Project, field experience, readings, or apprenticeship.
- FRW 3930 Special Topics** (3)  
Readings and discussion of literary/linguistic topics to be determined by students and instructor.
- FRW 4390 Genre Studies** (3)  
Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).
- FRW 4590 Creative Modes** (3)  
Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.
- FRW 4790 The Literary Generation** (3)  
The real and apparent shared ideals of an artistic generation, its influence and range.
- FRW 4810 Problems in Reading and Interpretation** (3)  
The identification and appreciation of techniques for sensitive reading and discussion of literary texts.
- FRW 4905 Independent Study** (VAR)  
Project, field experience, readings, or research.
- FRW 4930 Special Topics** (3)  
Independent readings, research, or project.
- FRW 5395 Genre Studies** (3)  
Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).
- FRW 5934 Special Topics in Language/Literature** (3)  
Content and objectives to be determined by student and instructor.
- FRW 5938 Graduate Seminar** (3)  
Topic and approach to be determined by students and instructor. (Approval of the Department required.)
- GER 3000 Elementary German** (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.
- GER 3130 German I** (5)  
Provides training in the acquisition and application of basic language skills.
- GER 3131 German II** (5)  
Provides training in the acquisition and application of basic language skills.
- GER 3210 German III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.
- GER 3420 Review Grammar/Writing I** (3)  
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** (3)  
Independent readings, research, or project.
- GER 5060 German for Reading Knowledge** (3)  
Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.
- GER 5061 German for Reading Knowledge** (3)  
Emphasis on translation of materials from the student's field of specialization. Prerequisite: GER 5060, or the equivalent.
- GET 3100 Literature in Translation** (3)  
Masterpieces in German literature in English. Comparative use of the original text. Discussion and interpretation.
- HBR 3000 Elementary Hebrew** (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.
- HBR 3130 Hebrew I** (5)  
Provides training in the acquisition and application of basic language skills.
- HBR 3131 Hebrew II** (5)  
Provides training in the acquisition and application of basic language skills.
- HBR 3210 Hebrew III** (5)  
Provides training in the acquisition and application of basic language skills.
- ITA 3000 Elementary Italian** (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 3130 Italian I** (5)  
Provides training in the acquisition and application of basic language skills.
- ITA 3131 Italian II** (5)  
Provides training in the acquisition and application of basic language skills.
- ITA 3210 Italian III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.
- ITA 3420 Review Grammar/Writing I** (3)  
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.
- ITA 4905 Independent Study** (VAR)  
Project, field experience, readings, or research.
- ITA 4930 Special Topics** (3)  
Independent readings, research, or project.
- ITT 3100 Literature in Translation** (3)  
Masterpieces of Italian literature in English. Comparative use of the original text. Discussion and interpretation.
- JPN 3130 Japanese I** (5)  
Provides training in the acquisition and application of basic language skills.
- JPN 3131 Japanese II** (5)  
Provides training in the acquisition and application of basic language skills.
- JPN 3210 Japanese III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.
- LIN 3010 Introduction to General Linguistics** (3)  
Examination and synthesis of the concepts and perspectives of major contributions to language theory. (Conducted in English.)
- LIN 3200 Phonetics** (3)  
The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity. Prerequisite: LIN 3010 or equivalent.
- LIN 3610 Dialectology** (3)  
Definition and analysis. Problem-solving in dialect classification. Prerequisite: LIN 3010 or equivalent.
- LIN 4226 Contrastive Phonology** (3)  
For students proficient in more than one foreign language. Choice of languages to be determined by students and instructor. Prerequisite: LIN 3010 or equivalent.
- LIN 4333 Contrastive Morphology** (3)  
For students proficient in more than one foreign language. Content and emphasis to be determined by students and instructor. Prerequisite: LIN 3010 or equivalent.
- LIN 4400 Applied Linguistics** (3)  
Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics, through the application of modern/traditional methods. (Conducted in English.) Prerequisite: LIN 3010 or equivalent.
- LIN 4418 Problems in Language Learning** (3)  
Primarily designed for prospective teachers, but open to all interested students. The course will aim to devise approaches to difficulties commonly experienced in syntax, usage, reading and comprehension. Prerequisite: LIN 3010 or equivalent.
- LIN 4620 Studies in Bilingualism** (3)  
Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.
- LIN 5435 Research Methods in Linguistics** (3)  
The collection and analysis of linguistic data: sampling techniques, interviews, recordings, questionnaires, transcription, basic statistical procedures, including the use of computer analysis. Prerequisite: LIN 3010 or equivalent.

**LIN 5600 Introduction to Sociolinguistics** (3)  
Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisite: LIN 3010 or equivalent.

**LIN 5625 Studies in Bilingualism** (3)  
Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.

**LIN 5934 Special Topics in Linguistics** (3)  
Content to be determined by students and instructor. (Approval of the Department required.)  
(See English listing for additional Linguistics courses.)

**POR 1135 Basic Portuguese I** (5)  
Course designed specifically for beginning university students with no previous language study. Emphasis on oral Portuguese and on acquiring basic language skills.

**POR 1136 Basic Portuguese II** (5)  
Emphasis on oral Portuguese and on acquiring basic language skills. This course completes the lower-division language requirement.

**POR 3000 Elementary Portuguese** (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.

**POR 3130 Portuguese I** (5)  
Provides training in the acquisition and application of basic language skills.

**POR 3131 Portuguese II** (5)  
Provides training in the acquisition and application of basic language skills.

**POR 3132 Portuguese III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.

**POR 3420 Review Grammar/Writing I** (3)  
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.

**POR 3421 Review Grammar/Writing II** (3)  
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 compositions.

**POR 3500 Luso-Brazilian Culture** (3)  
Open to any student who understands Portuguese. The development of Portuguese-speaking civilizations, with emphasis on either Portugal or Brazil: history, art, music, daily life, impact on other cultures.

**POR 3930 Special Topics in Language/Linguistics** (3)  
Readings, research, and discussion of topics in Portuguese language or linguistics to be determined by students and instructor.

**POR 4470 Foreign Study: Advanced Language/Literature** (VAR)  
Up to a full semester credit for foreign residence and study/work. (Approval of Department required.)

**POW 4905 Independent Study** (VAR)  
Project, field experience, readings, or research.

**POW 4930 Special Topics** (3)  
Independent readings, research, or project.

**PRT 3401 Literature in Translation** (3)  
Masterpieces of Portuguese literature in English. Comparative use of the original text. Discussion and interpretation.

**RUS 3130 Russian I** (5)  
Provides training in the acquisition and application of basic language skills.

**RUS 3131 Russian II** (5)  
Provides training in the acquisition and application of basic language skills.

**RUS 3210 Russian III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.

**SPN 1135 Basic Spanish I** (5)  
Course designed specifically for beginning university students with no previous language study. Emphasis on oral Spanish and on acquiring basic language skills.

**SNP 1136 Basic Spanish II** (5)  
Emphasis on oral Spanish and on acquiring basic language skills. This course completes the lower-division language requirement.

**SPN 3000 Elementary Spanish** (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.

**SPN 3130 Spanish I** (5)  
Provides training in the acquisition and application of basic language skills.

**SPN 3131 Spanish II** (5)  
Provides training in the acquisition and application of basic language skills.

**SPN 3210 Spanish III** (5)  
Provides intermediate training in the acquisition and application of basic language skills.

**SPN 3270 Foreign Study** (9)  
Intermediate level. One semester full-time credit for foreign residence and study. Individual cases will be evaluated for approval.

**SPN 3301 Review Grammar/Writing I** (3)  
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.

**SPN 3305 Spanish for Native Speakers** (3)  
Improvement of spelling, grammar, vocabulary, and composition skills. For native speakers of Spanish with limited training in writing.

**SPN 3401 Advanced Conversation** (3)  
Improvement of oral proficiency and listening comprehension skills, correction of accent, vocabulary building. Use of small group conversation, pronunciation tapes, and varied outside readings.

**SPN 3415 Communication Arts** (3)  
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 3421 Review Grammar/Writing II** (3)  
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 3500 Culture** (3)  
Open to any student who understands the target language. The development of a particular civilization. Emphasis on the evolution of a society, its ideas and its values.

**SPN 3705 Applied Linguistics** (3)  
Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics, through the application of modern/traditional methods. (Conducted in Spanish.) Prerequisite: LIN 3010 or equivalent.

**SPN 3733 Introduction to General Linguistics** (3)  
Examination and synthesis of the concepts and perspectives of major contributions to language theory. (Conducted in Spanish.) Equivalent to LIN 3010.

**SPN 3780 Phonetics** (3)  
The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity. Prerequisite: LIN 3010 or equivalent.

**SPN 3820 Dialectology** (3)  
Definition and analysis. Problem-solving in dialect classification. Prerequisite: LIN 3010 or equivalent.

**SPN 3840 History of the Language** (3)  
The internal and external history of language development. Examination of model texts from key periods of evolution. Prerequisite: LIN 3010 or equivalent.

**SPN 3905 Independent Study** (3)  
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 4440 Spanish Business Composition/Correspondence** (3)  
Training in the special writing needs of business: letter-writing, memoranda, brochures, advertising, proposals, declarations, government documents, etc.

**SPN 4470 Foreign Study: Advanced Language/Literature** (9)  
Full semester credit for foreign residence and study/work. (Approval of the Department required.)

**SPN 4501 Culture** (3)  
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** (3)  
Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.

**SPN 4790 Contrastive Phonology** (3)  
Contrasts in the sound systems of English and Spanish. Prerequisite: LIN 3010 or equivalent.

**SPN 4800 Contrastive Morphology** (3)  
Contrasts in the morphology and syntax of English and Spanish. Prerequisite: LIN 3010 or equivalent.

**SPN 4802 Contrastive Syntax** (3)  
Contrasts in the grammatical systems of English and Spanish with emphasis on structures with equivalent meanings. Recommended for students of translation and interpretation. Prerequisite: LIN 3010 or permission of the instructor.

**SPN 4822 Hispanic-American Sociolinguistics** (3)  
Language and society in Latin America. Sociolinguistic theory followed by consideration of specific language problems in Spanish- and Portuguese-speaking areas of the Americas. Prerequisite: LIN 3010 or equivalent.

**SPN 4828 Dialectology of the Spanish Caribbean** (3)  
Study of varieties of Spanish used in the Caribbean area, including Cuban and Miami-Cuban Spanish. The course will take historical and contemporary perspectives and will involve research among informants in South Florida.

**SPN 4905 Independent Study** (VAR)  
Project, field experience, readings, or research.

**SPN 4930 Special Topics in Linguistics** (3)  
Provides the opportunity for students and instructor to explore topics not included in the regular course offerings. Content to be determined.

**SPN 4936 Senior Seminar** (3)  
Topic and approach to be determined by students and instructor.

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

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

**SPN 5416 Communication Arts** (3)  
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** (3)  
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** (3)  
Content to be determined by students and instructor. (Approval of the Department required.)

**SPT 3110 Literature in Translation** (3)  
Masterpieces of Hispanic literature in English. Comparative use of the original text. Discussion and interpretation.

**SPT 3800 Introduction to Translation Skills** (3)  
Basic written translation into and out of English.

**SPT 3812 Introduction to Oral Translation** (3)  
Basic public-speaking techniques for sight translation. Beginning exercises in sight translation into and out of English and Spanish.

**SPT 4801 Translation Practica** (3)  
Translation of media, literary and scientific texts.

**SPT 4802 Practica in Oral Translation and Interpretation** (3)  
Sight translation into and out of English. Introduction to the study of terminology. Prerequisite: SPT 3812 or permission of instructor.

**SPT 4803 Practica in Legal Translation** (3)  
Provides advanced training in translating most commonly used legal documents in both civil and criminal procedures.

**SPT 4804 Practica in Legal Interpretation** (3)  
Training in consecutive and simultaneous interpretation of both civil and criminal legal proceedings before Federal and State courts.

**SPT 4805 Translation in Communication Media** (3)  
Provide insight into the techniques of translation of advertising, public relations and publicity materials to be used in the mass media such as print and broadcasting.

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

**SPW 3520 Prose and Society** (3)  
The dynamics of participation and alienation between prose writers and their environment.

**SPW 3580 Intellectual History** (3)  
The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.

**SPW 3582 Literature of Reform** (3)  
The consciousness of change in verbal art.

**SPW 3584 Literature of Repression** (3)  
The consciousness of constraints, their adoption and/or rejection in verbal art.

**SPW 3820 Introduction to Literature** (3)  
Close reading and analysis of prose and poetry. Introduction to the methods of literary criticism. Selected readings in international sources.

**SPW 3930 Special Topics** (3)  
Readings and discussion of literary/linguistic topics to be determined by students and instructor.

**SPW 4152 European Literature in Translation** (3)  
For students proficient in more than one foreign language. Content and focus to be determined by students and instructor. (Conducted in Spanish.)

**SPW 4390 Genre Studies** (3)  
Examination of a single literary form (e.g. Short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

**SPW 4590 Creative Modes** (3)  
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** (3)  
The real and apparent shared ideals of an artistic generation, its influence and range.

**SPW 4810 Problems in Reading and Interpretation** (3)  
The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

**SPW 4930 Special Topics** (3)  
Independent readings, research, or project.

**SPW 5155 Comparative Studies** (3)  
Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

**SPW 5391 Genre Studies** (3)  
Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

**SPW 5934 Special Topics in Language/Literature** (3)  
Content and objectives to be determined by students and instructor.

**SPW 5936 Graduate Seminar** (3)  
Topic and approach to be determined by students and instructor. (Approval of the Department required.)

## Performing Arts

### Music

**Philip H. Fink, Professor and Chairperson**  
(Music)

**John Augenblick, Assistant Professor**

**Marie Leeds, Assistant Professor**

**Yoshihiro Obata, Associate Professor**

**Joseph Rohm, Associate Professor**

**Violet Vagramiam-Nishanian, Associate Professor**

### Freshman/Sophomore Admission

Freshman admission requires 12 high school academic units, a 3.0 GPA, and a score of 1,000 on the SAT.

### Junior/Senior Admission

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 following is a Bachelor of Music Plan for those students interested in a music degree.

LOCATION: Tamiami Campus

DEGREE: Bachelor of Music

Four Year Plan

Music

#### First Year

	1st Semester
Theory	3
Sightsinging	1
Applied	2
Organization	1
Class Piano	1
Electives	9
	17

	2nd Semester
Theory	3
Sightsinging	1
Applied	2
Organization	1
Class Piano	1
Electives	9
	17

#### Second Year

	1st Semester
Theory	3
Sightsinging	1
Class Piano	1
Applied	2
Organization	1
Keyboard Harmony	1
Electives	7
	16

	2nd Semester
Theory	3
Sightsinging	1
Class Piano	1
Applied	2
Organization	1
Keyboard Harmony	1
Electives	7
	16

#### Third Year

	1st Semester
Counterpoint	3
Basic Conducting	1
Class Piano	1
Applied	2
Organization	1
Music History	3
Electives	6
	16

	2nd Semester
Orchestration	3
Conducting (V or I)	1
Applied	2
Organization	1
Music History	3
Electives	6
	16

#### Fourth Year

	1st Semester
Form/Analysis	3
Applied	2
Organization	
Music History	3
Electives	7
	16

	2nd Semester
Theory elective	3
Applied	2
Organization	1
Research/Recital	1
History elective	3
Electives	6
	16

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

The following are Junior/Senior Year Tracks for Music students.

#### APPLIED MUSIC

Required Courses	Semester Hours
Theory — MUT 3416, MUT 3611, MUT 4311 (plus one Theory elective)	12
History — MUH 3211, MUH 3212, MUH 3372 (plus one History elective)	12
Organizations (4 semesters)	4
Applied (4 semesters)	8
Conducting	2
Recital and Research	1
Directed Study	3
Electives:	18

#### CONDUCTING

Required Courses:	Semester Hours
Theory — MUT 3416, MUT 3611, MUT 4311 (plus one Theory elective)	12
History — MUT 3211, MUH 3212, MUH 3372 (plus one History elective)	12
Organizations (4 semesters)	4
Conducting*	6
Applied (4 semesters)	8
Electives:	18

\*The student is required to conduct a performing organization during the senior year.

#### THEORY AND COMPOSITION

Required Courses:	Semester Hours
Theory — MUT 3416, MUT 3611, MUT 4311 (plus one Theory elective)	12
History — MUH 3211, MUH 3212, MUH 3372 (plus one History elective)	9
Organizations (4 semesters)	4
Conducting	2
Applied (3 hours applied and 4 hours composition lessons)	6
Recital and Research*	1
Electives:	18

\*The performance of an original composition is required with analysis or a lecture on a theoretical subject for the student body.

#### MUSICOLOGY

Required Courses:	Semester Hours
Theory — MUT 3416, MUT 3611, MUT 4311 (plus one theory elective)	12
History — MUH 3211, MUH 3212, MUH 3372 (plus one History elective)	12
Organizations (4 semesters)	4
Conducting	2
Applied (4 semesters)	8

Directed Study*	Var.
Research**	1
Electives: (includes 2 semesters of a Foreign language)	18

\*Musicology students are required to take at least 4 semesters of Directed Study based on specialized areas of music history under an advisor's supervision.

\*\*During the Senior year the student is required to lecture for the student body on an independently researched topic of historical significance.

#### COMMERCIAL/JAZZ

Required Courses	Semester Hours
Theory — MUT 3416, MUT 3611, MUT 4311 (plus one Theory elective)	12
History — MUH 3211, MUH 3212, MUH 3372	9
Organization (3 semesters)	3
Applied (3 semesters; ½ hr. lessons)	3
Business of Music I (MUM 4301) and II (MUM 4302)	6
Internship/Jazz Core	12
Electives:	15

#### APPLIED MUSIC WITH CERTIFICATION

Required Music Courses (Teacher Certification)	Semester Hours
Theory — MUT 3416, MUT 3611, MUT 4311 (plus one Theory elective)	12
History — MUH 3211, MUH 3212, MUH 3372	9
Organizations (3 semesters)	3
Conducting	2
Applied (3 semesters)	6
Research and Recital	1
Guitar (MVS 3116)	3
Required Education Courses:	34

#### Course Descriptions

##### Definition of Prefixes

HUM — Humanities; MUC — Music; Composition; MUE — Music; Education; MUG — Music; Conducting; MUH — Music-History / Musicology; MUL — Music; Literature; MUN — Music; Commercial; MUN — Music; Ensembles; MUS — Music; MUT — Music; Theory; MVB — Applied Music-Brass; MVK — Applied Music-Keyboards; MVP — Applied Music-Perussions; MVS — Applied Music-Strings; MVV — Applied Music-Voice; MVW — Applied Music-Woodwinds.

MUC 4201 Music Composition I (3)  
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: MUT 4311 or permission of instructor.

MUC 4202 Music Composition II (3)  
A continuation of Music Composition I. The larger forms of music composition are analyzed and composed. Prerequisite: MUC 4201.

MUE 3140 Solfege (3)  
A course designed to strengthen and build the student's ability to write and perform melody, 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.



**MUE 5928 Workshop in Music** (2)  
Applications of materials and techniques in music in a laboratory or field setting.

**MUG 4101 Basic Conducting** (1)  
A basic conducting course to gain fundamental technique and interpretation. A prerequisite for both advanced instruments and choral conducting.

**MUG 4201 Choral Conducting** (1)  
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: MUG 4101.

**MUG 4301 Instrumental Conducting** (1)  
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: MUG 4101.

**MUG 5105 Advanced Conducting Techniques** (1)  
An extension of form and analysis, with interpretation both in instrumental and choral conducting. Twentieth century scoring and symbol interpretation will be studied in depth, with actual conducting experience required.

**MUH 1001 Musical Art Course** (3)  
Lives and creations of great composers in various periods of history. A multi-media course.

**MUH 3116 Evolution of Jazz** (3)  
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** (3)  
A survey of music from antiquity to 1750. Lectures on historical styles will be supplemented with slides, recordings, and musical analysis.

**MUH 3212 Music History Survey** (3)  
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** (3)  
An 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"** (3)  
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** (3)  
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** (3)  
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** (3)  
Study of solo works for the keyboard from historical beginnings to the present. Performance practices and stylistic analysis will be emphasized, with illustrations of representative works.

**MUL 4500 Symphonic Literature** (3)  
Survey of symphonic literature from the 17th century to present day. Analysis and illustrations of representative works.

**MUL 4661 History and Literature of Opera** (3)  
Chronological survey of opera literature from the 17th century to present day. Analysis and performance of representative works.

**MUM 4301 Business of Music** (3)  
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.

**MUM 4302 Business of Music II** (3)  
Continuation of principles and practices of modern publishing techniques; copyright laws; wholesale and retail distribution of music. Performance rights; agreements and relations between producer, directors, performers, writers, personnel managers, booking agents. Prerequisite: MUM 4301.

**MUM 4940 Music Internship** (VAR)  
Practical experience utilizing music theory, composition, and history in the commercial music industry. The precise nature of the work will be determined in consultation with an advisor. Prerequisite: MUM 4302.

**MUN 1140, 2140, 3140, 4140, 5145 Wind Ensemble** (1)  
A group of wind and percussion instrumentalists. Prerequisite: Permission of conductor.

**MUN 1210, 2210, 3210, 4210, 5215 Orchestra** (1)  
An instrumental ensemble performing works from the symphonic repertory. Prerequisites: Previous experience and permission of conductor.

**MUN 1340, 2340, 3340, 4340, 5345 Sunblazer Singers** (1)  
A small ensemble of selected mixed voices performing a repertoire in the modern popular idiom. Miniature contemporary accompaniment will be utilized. Prerequisite: Permission of conductor.

**MUN 1380, 2380, 3380, 4380, 5385 University Singers** (1)  
A chorus performing a repertoire primarily from great choral works. Large orchestral accompaniment as well as various instrumental ensembles will be utilized. Prerequisite: Permission of conductor.

**MUN 1460, 2460, 3460, 4460, 5465 Chamber Music** (1)  
Small ensemble in the performing of chamber music literature. Prerequisite: Permission of conductor.

**MUN 1710, 2710, 3710, 4710, 5715 Studio Jazz Ensemble** (1)  
An ensemble to provide creative professional-level experience in the contemporary popular idiom. Permission of conductor.

**MUS 3905, MUS 5905 Directed Study** (VAR)  
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** (VAR)  
Research composition or performance projects, under the guidance and direction of the music faculty. (May be repeated.)

**MUS 3949 Cooperative Education in Performing Arts** (VAR)  
A student majoring in Performing Arts may spend several semesters fully employed in industry or government in a capacity relating to the major.

**MUS 4949 Cooperative Education in Performing Arts** (VAR)  
A student majoring in Performing Arts may spend several semesters fully employed in industry or government in a capacity relating to the major.

**MUT 1111 First Year Music Theory I** (3)  
This course is designed to promote and develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance, and listening. Corequisite: MUT 1221.

**MUT 1112 First Year Music Theory II** (3)  
This course is designed to promote and develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance and listening. The second semester is a continuation of Theory I. Prerequisite: MUT 1111, Corequisite: 1222.

**MUT 1221 Sight Singing I** (1)  
Development of Basic Musicianship through aural perception, Sight Singing and ear training exercises.

**MUT 1222 Sight Singing II** (1)  
Development of Basic Musicianship through aural perception, sight singing and ear training exercises. The second semester is a continuation of Sight Singing I. Prerequisite: MUT 1221.

**MUT 2116 Second Year Music Theory I** (3)  
Continuation of Freshman Theory. It seeks to promote and further develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance, and listening. Prerequisite: MUT 1112. Corequisite: MUT 2226.

**MUT 2117 Second Year Music Theory II** (3)  
This course further develops those skills acquired in sophomore Theory I. Prerequisite: MUT 2116. Corequisite: MUT 2227.

**MUT 2226 Second Year Sightsinging I** (1)  
Continuation of the Development of Basic Musicianship through aural perception, sightsinging, and ear training exercises. Prerequisite: MUT 1222. Corequisite: MUT 2116.

**MUT 2227 Second Year Sightsinging II** (1)  
Continuation of the Development of Basic Musicianship through aural perception, sightsinging, and ear training exercises. Prerequisites: MUT 2226, MUT 2116. Corequisite: MUT 2117.

**MUT 3031 Music Theory I** (3)  
Designed to review and develop skills in basic theory, harmony, and ear training.

**MUT 3032 Music Theory II** (3)  
Designed to review and further develop skills in basic theory, harmony, and ear training.

**MUT 3416 Counterpoint** (3)  
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: MUT 2117, 2227, or equivalent.

**MUT 3611 Form and Analysis** (3)  
Study and analysis from the smaller forms of musical composition to multimovement forms. Prerequisite: MUT 3416.

**MUT 4311 Orchestration** (3)  
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** (3)  
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.

**MUT 4641 Jazz Improvisation I** (3)  
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 II** (3)  
A follow-up course that both reinforces and extends all material learned in Jazz Improvisation I. Course stresses more complex chord structure, scales, and tunes. A concert will be held at conclusion of the term.

**MUT 4643 Jazz Improvisation III** (3)  
A continuation of Jazz Improvisation II, this course teaches chromatic chords, advanced scales and progressions, patterns, repertoire. Individual and ensemble performance is required as a final project. Prerequisite: MUT 4642.

**MUT 4353 Jazz Arranging** (3)  
This course teaches the fundamental aspects of jazz arranging: instrumentation, transposition, section and ensemble writing, chord voicings, counterpoint, and form and analysis. The performance of an original arrangement is required as a final project. Prerequisite: MUT 4641.

**MUT 5325 Arranging** (4)  
A course in practical arranging for the public school teacher, including choral, band, and popular arranging.

**MVB 1314, 2324, 3334, 4345, 5355**  
**Applied Music-Brass** (1-2)  
Individual instruction in applied music on trumpet, French horn, trombone, baritone horn, or tuba.

**MVK 1111 Class Piano** (1)  
A course designed to teach piano skills and competencies to non-piano majors. This is a four-semester sequence for music majors. This course includes: keyboard familiarization, finger exercises and techniques, transposing, and easy literature. Prerequisite: None.

**MVK 1311, 2321, 3331, 4341, 5351**  
**Applied Music—Keyboard** (1-2)  
Individual instruction in applied music on piano or organ.

**MVK 2111 Class Piano II** (1)  
A continuation of class piano I; The course includes continued work in finger technique, scales and fingering, transposing, simple accompaniments to folk songs, sight reading cadences, and simple literature. Prerequisite: MKV 1111.

**MVP 1311, 2321, 3331, 4341, 5350**  
**Applied Music—Percussion** (1-2)  
Individual instruction in applied music on all percussion instruments.

**MVS 1312, 2321, 3332, 4343, 5353**  
**Applied Music—Strings** (1-2)  
Individual instruction in applied music in violin, viola, cello, string bass, guitar, or harp.

**MVS 3116 Guitar Skills** (3)  
Emphasis on music reading and elementary techniques. Open to all Florida International University students.

**MVS 3216 Intermediate Guitar Skills** (3)  
Emphasis on techniques and styles such as calypso, folk, blues, classical and jazz. Open to all Florida International University students.

**MVS 4975 Recital and Research** (1)  
All music majors, before graduation, must present at least one half of a public recital, and pass an oral examination on the music programmed.

**MVV 1311, 2321, 3331, 4341, 5351**  
**Applied Music—Voice** (1-2)  
Individual instruction in applied music in voice.

**MVV 3111 Class Instruction—Voice** (3)  
Class instruction on voice designed to help the student in developing performance skills and increased musical knowledge. (May be repeated.)

**MVV 4141 Intermediate Class Voice** (3)  
Emphasis on sightsinging, tonal production, interpretation and other vocal exercises. Particular attention is paid to vocal and acting improvisation. Prerequisite: MVV 3111.

**MVW 1313, 2323, 3333, 4345, 5353**  
**Applied Music—Woodwinds** (1-2)  
Individual instruction in applied music on the flute, oboe, clarinet, bassoon, or saxophone.

## Theatre

**Therald Todd, Associate Professor and Theatre Program Director**  
**Philip Mazer, Associate Professor**  
**Paul Mazer, Associate Professor**  
**Marilyn Skow, Visiting Assistant Professor**

**LOCATION:** Tamiami Campus

**DEGREE:** Bachelor of Fine Arts

**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 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 courses for a BFA degree in**

Theatre:		34
TPP 3110	Acting I	3
TPP 3280	Theatre Speech and Movement I	2
TPA 3200	Stagecraft I	3
TPA 3220	Stage Lighting I	3
TPA 3010	Scenic Design I	3
TPA 4230	Stage Costuming	3
TPA 3290L		
TPA 3292L	Technical Theatre Lab	3
TPA 3650	Playscript Analysis	3
TPP 3310	Directing	3
THE 4110-		
THE 4111	Theatre History I, II	6
THE 4970	Senior Project	2
<b>Elective Courses</b>		<b>26</b>
		<b>60</b>

## Minor in Theatre:

Required Courses:		21
THE 3000	Theatre Appreciation	3
TPA 3200	Stagecraft I	3
TPP 3110	Acting I	3
TPP 3650	Playscript Analysis	3

**Theatre Electives** 9

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; ORI — Oral Interpretation; SPC — Speech Communication; THE — Theatre; TPA — Theatre Production and Administration; TPP — Theatre-Performance and Performance Training.

**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** (3)  
Development of the voice as an instrument for expressive interpretation of literature.
- SPC 3600 Public Speaking** (3)  
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.
- THE 2020 Introduction to Theatre** (3)  
A study of theatre: process and product, introducing the past of theatre, its literature and traditions; and the means by which theatre is produced: acting, directing and visual design.
- THE 3000 Theatre Appreciation** (3)  
A study of theatre, process and product, for the audience.
- THE 3051 Children's Theatre** (3)  
Techniques of selection, production, and performance of plays for children.
- THE 3071 Introduction to Filmmaking** (3)  
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 4110 Theatre History I** (3)  
The development of the theatre from its origins to the early 19th century.
- THE 4111 Theatre History II** (3)  
The development of the theatre from early 19th century to the present.
- THE 4300 Modern Dramatic Literature** (3)  
Intensive play reading and discussion from early modern through contemporary.
- THE 4820 Creative Dramatics** (3)  
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 4970 Senior Project** (2)  
Preparation of a final creative project in the student's area of emphasis under the direction of a faculty advisor. Prerequisite: Prior arrangement with advisor.
- 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.
- TPA 3010 Scenic Design I** (3)  
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 3071 Stage Rendering** (3)  
An introduction to the techniques used in rendering scenery and costume design concepts. Recommended as preparation for TPA 3010 and TPA 4230.
- TPA 3200 Stagecraft I** (3)  
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** (3)  
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 3230 Stage Costuming I** (3)  
Fundamentals of costume design. Study of period, character, and concept. Familiarization with fabrics and techniques of construction and trim.
- TPA 3250 Stage Make-up** (3)  
Fundamentals of straight and character make-up. Use of greasepaint and three dimensional techniques.
- TPA 3290L Technical Theatre Lab I** (1)  
Supervised crew work in construction, painting, lighting, costuming, and running major productions. Required of Theatre majors.
- TPA 3291L Technical Theatre Lab II** (1)  
Supervised crew work. Required of Theatre majors.
- TPA 3292L Technical Theatre Lab III** (1)  
Supervised crew work. Required of Theatre majors.
- TPA 4061 Scenic Design II** (3)  
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** (3)  
Advanced problems in the construction and movement of scenery, properties, and special effects. Prerequisite: TPA 3200.
- TPA 4231 Stage Costuming II** (3)  
Advanced skills in designing, rendering, and construction costumes. Includes pattern making and charting the show. Prerequisite: TPA 4230.
- TPA 4260 Sound for the Theatre** (3)  
A study of the uses of sound effects and high fidelity electronics in theatrical production.
- TPA 4400 Theatre Management** (3)  
Survey of all aspects of theatre administration: budget planning and maintenance; public relations; box office and house management; unions and contracts.
- TPP 3100 Introduction to Acting** (3)  
An introduction to the acting process. Self awareness, physical and vocal control, basic stage technique and beginning scene work will be studied. Intended for the student with little or no acting experience.
- TPP 3110 Acting I** (3)  
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** (3)  
Beginning scene study and character building, continuing work begun in Acting I. Prerequisites: TPP 3110, TPP 3282.
- TPP 3250 Musical Theatre Workshop** (3)  
An introduction to Musical Comedy performance: integration of the dramatic, musical and movement components will be studied through work on selected scenes.
- TPP 3282 Theatre Speech and Movement** (2)  
Development of the actor's two main instruments: the voice and the body.
- TPP 3283 Theatre Speech and Movement II** (2)  
A continuation of the development of the actor's voice and body. Prerequisite: TPP 3282.
- TPP 3310 Directing I** (3)  
Basic principles of play direction; including problems of selecting, analysing, casting, and rehearsing plays. Prerequisite: TPP 3650.
- TPP 3650 Playscript Analysis** (3)  
Detailed playscript examination for directors, actors and designers, focusing on identification of those elements upon which successful theatre production depends.
- TPP 3730 Dialects** (3)  
A study of dialects common to western theatre. Prerequisite: TPP 3100 (Acting).
- TPP 4112 Acting III** (3)  
Advanced scene study, character, and improvisation work. Elements of style, auditions techniques, and ensemble playing will be explored. Prerequisite: TPP 3111.
- TPP 4280 Actor's Workshop** (3)  
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** (3)  
A continued study of direction techniques culminating in the preparation of a play for public performances. Prerequisite: TPP 3310.
- TPP 4531 Stage Combat** (3)  
A study of combat techniques for the stage, including fencing, boxing, wrestling, and tumbling.

**TPP 4600 Playwriting** (3)  
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

Michelle Beer, Assistant Professor  
Bongkil Chung, Assistant Professor  
Bruce Hauptli, Associate Professor  
Kenneth Henley, Associate Professor  
George Kovacs, Professor

**LOCATION:** Tamiami Campus

**DEGREE:** Bachelor of Arts

**LOWER DIVISION PREPARATION:**

*Required Courses:* None.

*Recommended Courses:* Philosophy, Religion.

**UPPER DIVISION PROGRAM:**

<i>Required Areas:</i>	<i>Semester Hours</i>
Epistemology	3
Metaphysics	3
Ethics and Aesthetics	3
Logic	3
History of Philosophy	6
Philosophy Seminar	3
Other Philosophy Courses	12
Courses in one other discipline	12
<i>Electives:</i>	15
	60

**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 twelve semester hour credits required in one other academic discipline or unified area (as part of the Philosophy Major) would be met by courses taken towards the second major.

The Department offers many of its courses at the Bay Vista Campus and participates in the Humanities Major. It also serves the community and professional groups by offering courses Off-Campus. For further information concerning these courses consult the Department.

### Minor in Philosophy:

A student majoring in another academic discipline can earn an academic minor in philosophy by taking an approved pattern of at least four philosophy courses (12 semester 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.

## Course Descriptions

### Definition of Prefixes

PHH — Philosophy, History of; PHI — Philosophy; PHM — Philosophy of Man and Society; PHP — Philosophers and Schools.

**PHH 3042 Latin American Philosophy** (3)  
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** (3)  
The basic concerns and teachings of representative 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** (3)  
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** (3)  
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** (3)  
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.

**PHH 3700 American Philosophy** (3)  
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** (3)  
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** (3)  
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 2011 Philosophical Analysis** (3)  
This course introduces both the tools of philosophical thinking and some of their applications to fundamental topics such as knowledge, value, meaning, and human society.

**PHI 2930 Special Topics** (3)  
In-depth study of topics of special interest in philosophy.

**PHI 3010 Introduction to Philosophical Thinking** (3)  
This introductory course examines the presence of philosophy and the role of philosophizing in the search for understanding of the self and the 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 Introduction to Logic** (3)  
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** (3)  
The viewpoints of various philosophers and schools of thought regarding types of knowledge, certitude, and creativity are the main emphases of this introductory course. The meaning of truth and truthfulness is analyzed from both the classical and the contemporary perspectives.

**PHI 3320 Philosophy of Mind** (3)  
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 Philosophy of Science** (3)  
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.

**PHI 3500 What Is Reality?** (3)  
This introductory course examines basic metaphysical questions regarding the nature of reality, as well as the meaning of these questions for the relationship of persons with their world. Fundamental texts from classical and contemporary philosophers will be considered.

**PHI 3600 Ethics** (3)  
What is intrinsically good? What ought one to do? How are moral claims justified? Competing views of major philosophers are considered.

**PHI 3636 Professional Ethics** (3)  
This course will examine the role of ethics in the professions. The focus will be on the moral issues arising in the professions with the aim of developing the analytical skills required to address such problems.



**PHI 3700 Philosophy of Religion (3)**

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.

**PHI 3762 Eastern Philosophical and Religious Thought (3)**

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 (3)**

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 3949 Cooperative Education in Philosophy (3)**

A student majoring in Philosophy may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Permission of Cooperative Education and major department.

**PHI 4130 Symbolic Logic (3)**

This course provides an introduction to symbolic logic. Emphasis is upon both the formal techniques of analysis of argument and upon the theoretical aspects of formal logic.

**PHI 4221 Philosophy of Language (3)**

This course examines the nature and structure of language from various philosophical perspectives. It includes an analysis of such themes as language and culture, language and thought, and the origin of language.

**PHI 4222 Philosophy of Dialogue (3)**

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 (3)**

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 (3)**

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.

**PHI 4633 Biomedical Ethics (3)**

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? (3)**

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 (3)**

Philosophical implications of selected works and the impact of philosophical concepts such as the self, death, identity, alienation, responsibility, freedom, and the absurd.

**PHI 4910 Independent Research (VAR)**

Topics will be selected to meet the academic needs of the individual student.

**PHI 4930 Special Topics (3)**

In-depth study of topics of special interest in philosophy.

**PHI 4935 Philosophy Seminar (3)**

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.

**PHI 4949 Cooperative Education in Philosophy (3)**

A student majoring in Philosophy may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Permission of Cooperative Education and Major Department.

**PHI 5934 Special Topics (3)**

Topics will be selected to meet the academic needs of groups of students.

**PHM 3040 Philosophical Anthropology (3)**

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 (3)**

The nature of society and the state, authority of society and the state over the individual, political obligation, legitimacy of government, and idea of social contract are considered.

**PHM 3500 Philosophy of History (3)**

After exploring the definitions, dimensions and interrelations of philosophy and history, students will examine major philosophies of his-

tory. The social responsibility of the historical narrative and the philosophical assumptions of historiographies will be discussed.

**PHM 4020 Love and Sexuality (3)**

This course analyzes the nature and meaning of 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 society.

**PHM 4050 Philosophy of Death (3)**

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 4123 Philosophy and Feminism (3)**

This course will focus on the basic philosophical dimensions that must be included in any full understanding of feminine being as reality and experience. Topics will include ethical issues such as oppression of women and sexism in language and behavior.

**PHM 4400 Philosophy of Law (3)**

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 (3)**

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, Taoist, Legalist, and Zen Buddhist philosophies.

**PHP 4510 Marxism (3)**

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 (3)**

This course analyzes the method, 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 (3)**

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** (3)  
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.

## Physics:

**Richard A. Bone, Assistant Professor**  
**Kenneth Hardy, Associate Professor**  
**Stephan L. Mintz, Associate Professor**  
**John W. Sheldon, Professor**

The physics program is part of the Department of Physical Sciences. Additional information and counseling may be obtained from the Departmental Office.

**LOCATION:** Tamiami Campus.

**DEGREE:** Bachelor of Science

This program prepares students for careers as professional physicists in industry, government, or graduate study in physics, engineering, or material science. It also prepares students for teaching careers. Students interested in teacher certification should contact the School of Education.

**LOWER DIVISION PREPARATION:**

**Required Courses:** Algebra and trigonometry (advanced high school courses in algebra and trigonometry are acceptable); one year of general chemistry, differential and integral calculus, and physics with calculus including lab. These courses may be taken at the University if not completed at the lower division.

**UPPER DIVISION PROGRAM:**

	<i>Semester Hours</i>
PHY 3123, PHY 3124	
Modern Physics	6
PHY 3503 (CHM 3410)	
Thermodynamics	3
PHY 4221, PHY 4222	
Mechanics	6
PHY 4323, PHY 4324	
Electromagnetism	6
PHY 4604	
Quantum Mechanics	3
PHY 4810L, PHY 4811L, PHY 4812L	
Senior Physics Lab	3
PHY 4905, PHY 4906, PHY 4907	
Independent Study	3
PHY 4921	
Synopsis of Undergraduate Physics	1
Approved electives in experimental or theoretical physics	8
Mathematics electives beyond eight semester hours of calculus or PHY 5936, PHY 5937, PHY 5938 Special Topics	3
Electives*	18

60

\*Must include PHY 3048 — 3049 and Laboratory if the equivalent is not taken in the lower division.

**Minor in Physics:**

This program is designed for the students who

desire additional capabilities in physics beyond the basic sequence. This program is especially recommended for chemistry, mathematics, and engineering/technology majors.

*Semester Hours*

PHY 3048, PHY 3049	
Physics with Calculus	10
PHY 3048L, PHY 3049L	
Physics with Calculus Lab	2
PHY 3123, PHY 3124	
Modern Physics	6
Additional approved courses	6

### MASTER OF SCIENCE IN PHYSICS

The Department of Physical Sciences at the 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.

### 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 Academic Affairs. The student spends several semesters 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; PHS — Physics -Specialized; PHY — Physics; PSC — Physical Sciences; ENU — Nuclear engineering.

**AST 3025L Observational Astronomy** (3)  
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 3213 Modern Astrophysics** (3)  
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 3048, 3049, Calculus I and II, and AST 3100.

**AST 3100 Modern Astronomy** (3)  
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.

**ENU 4101 Introduction to Nuclear Reactors** (3)  
An elementary course in nuclear fission reactor theory and power plant operation. An overview of the relevant nuclear processes and their application to reactor design. Prerequisites: MAC 3411-3412, Calculus I & II; PHY 3048-3049, General Physics with Calculus I-II.

**PHS 4303 Nuclear Physics** (3)  
A treatment of the current state of the nuclear theory problem and a discussion of modern experimental methods. Prerequisites: PHY 3048, 3049, PHY 3123, 3124.

**PHS 5125 Seminar in Theoretical Physics** (3)  
The theoretical foundation of classical mechanics, relativity, fields, quantum mechanics, group theory, and relativity.

**PHS 5400 Solid State Physics** (3)  
Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, and dielectric materials. Prerequisites: General chemistry, PHY 3048, 3049.

**PHY 3033 Physical Aspects of Unsolved Mysteries** (3)  
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 3048, PHY 3049 Physics with Calculus** (5,5)  
Basic physics calculus sequence. PHY 3048 will cover Kinematics, Newton's Laws, conservation laws, gravitation, fluids, sound, and thermodynamics. Prerequisite: Differential calculus. Corequisite: Integral calculus. PHY 3049 will cover electricity and magnetism, field theory, geometrical and wave optics.

**PHY 3048L, PHY 3049L Junior Physics Laboratory** (1,1)  
Laboratory section of PHY 3048 and PHY 3049. Prerequisites or Corequisites: PHY 3048, 3049.

**PHY 3053-PHY 3054 Physics without Calculus** (4,4)  
A general introductory course using a non-calculus approach. PHY 3053 will cover kinematics. Newtonian mechanics, properties of fluids, thermodynamics, and wave motion. PHY 3054 will cover electricity and magnetism, geometrical and wave optics, and the structure of matter. Prerequisites: College algebra, trigonometry, and analytic geometry.

**PHY 3053L, PHY 3054L Physics Without Calculus Laboratory** (1,1)  
Laboratory section of PHY 3053 and PHY 3054. Prerequisites or Corequisites: PHY 3053, 3054.

**PHY 3123, PHY 3124 Modern Physics** (3)  
Recent developments in physics are discussed. Subject matter includes: review of classical physics, special relativity, four-vectors, wave-particle duality, the hydrogen atom, many electron atoms, nuclear instrumentation, nuclear structure, nuclear reactions, elementary particles, introduction to quantum mechanics, and solid state physics. Prerequisites: PHY 3048-3049.

**PHY 3424 Optics** (3)  
General formulation of geometrical optics including matrix techniques, interference phenomena, and the theory of Fraunhofer and Fresnel diffraction, will be among the topics covered. Prerequisites: PHY 3048-3049.



**PHY 3503 Thermodynamics** (3)  
Fundamental principles of thermodynamics, the first, second, and third laws, free energy, entropy, the chemical potential, phase rule and its applications. Prerequisites: General chemistry and PHY 3048-3049.

**PHY 3772 Electronics** (3)  
Including solid state theory and the theory of circuits, circuit operation and design in lecture and laboratory sessions. Prerequisites: PHY 3048-3049.

**PHY 3949, PHY 4949 Cooperative Education in Physics** (3)  
One semester 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.

**PHY 4221, PHY 4222 Intermediate Classical Mechanics I & II** (3,3)  
Laws of motion, statics of particles and rigid bodies, motion of particles in one, two, and three dimensions, systems of particles, rigid bodies in a plane, central forces. Accelerated reference systems, rigid body in three dimensions, generalized coordinates, Lagrangian and Hamiltonian formulations of mechanics, vibrating systems, and normal coordinates. Prerequisites: PHY 3048, 3049.

**PHY 4323, PHY 4324 Intermediate Electromagnetism I and II** (3)  
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 Laplace'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. Prerequisites: PHY 3048, 3049.

**PHY 4526 Statistical Thermodynamics** (3)  
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 and PHY 3048, 3049.

**PHY 4604 Quantum Mechanics I** (3)  
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 and PHY 3048, 3940.

**PHY 4750L Introduction to Scientific Instrumentation** (3)  
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 required.

**PHY 4810L, PHY 4811L, PHY 4812L Senior Physics Lab** (3)  
Advanced laboratory topics are treated. Modern physics laboratory equipment is used, and the student is introduced to current laboratory practice. Prerequisites: PHY 3048, 3049.

**PHY 4905, PHY 4906, PHY 4907 Independent Study** (3)  
The student will work under the supervision of a faculty member on subject material of mutual interest. Instructor's permission is required.

**PHY 4921 Synopsis of Undergraduate Physics** (1)  
A comprehensive review of undergraduate physics given in seminar form on subjects of special interest to the students attending. For seniors only.

**PHY 4936, PHY 4937, PHY 4938 Special Topics** (VAR)  
In-depth study of topics of special physics interest.

**PHY 5250 Physics of Fluids** (3)  
Introduction to the constitutive equations of fluid mechanics. Topics in steady compressible and incompressible flows. Prerequisites: PHY 4221, 4222, 3503.

**PHY 5624 Introduction to Physics Research**  
Students are introduced to research techniques by assisting with an original investigation in experimental or theoretical physics.

**PHY 5910 Seminar in Advanced Theoretical Mechanics** (3)  
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. Prerequisites: PHY 4221-4222.

**PHY 5936, PHY 5937, PHY 5938 Seminar in Special Topics** (3)  
Seminar work under the supervision of a faculty member on subject material of mutual interest.

**PSC 3001 Concepts in Physics** (3)  
Self contained course for liberal arts majors covering the major concepts in physics. Necessary concepts of elementary algebra and geometry will be covered at 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.

**PSC 3351 Earth Physics** (3)  
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** (3)  
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

**John Stack, Associate Professor and Chairperson**  
**Bruce Detwiler, Assistant Professor**  
**Joel Gottlieb, Associate Professor**  
**Antonio Jorge, Professor**  
**Joyce Lilie, Associate Professor**  
**Brian Nelson, Associate Professor**  
**Mark Rosenberg, Associate Professor**  
**Cheryl Rubenberg, Assistant Professor**  
**Mary Volcansek, Associate Professor**  
**Christopher Warren, Assistant Professor**  
**David Zweig, Assistant 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.

**DEGREE:** Bachelor of Arts

**LOWER DIVISION PREPARATION:**

Students should complete a minimum of 60 semester hours, including the general education requirements. If a student has completed a minimum of 18 semester hours of general education credits, it is still possible to be accepted into this program. However, the general education deficiencies need to be completed prior to graduation from the University. Listed below are the required and recommended courses to enter this upper division major:

<i>Required Courses:</i>	<i>Semester Hours</i>
American Government*	3
<i>Recommended Courses:</i>	
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 American Government requirement may be fulfilled by taking either POS 2041 or POS 3044 at entrance to the University, concurrently if desired, with other requirements of the major. Neither POS 3044 nor POS 2044 will fulfill either the breadth or depth requirements of the major.

**UPPER DIVISION PROGRAM:**

In Political Science, specific courses are not required. Rather, courses are chosen freely but must be distributed in the following manner:

**A. Breadth Requirements**

One course in each of the following fields:

**AMERICAN POLITICS (AP)**

Breadth area requirement can be met by one of the following courses:

- PAD 3003 — The Administrative Process
- POS 3153 — Urban Politics
- POS 3413 — The Presidency
- POS 3424 — The Legislative Process
- POS 3453 — Political Parties

**JUDICIAL POLITICS (JP)**

Breadth area requirement can be met by one of the following courses:

- POS 3283 — The Judicial Process
- POS 3603 — Constitutional Law: Powers
- POS 3604 — Constitutional Law: Limits

**COMPARATIVE POLITICS (CP)**

Breadth area requirement can be met by one of the following courses:

- CPO 3055 — Authoritarian Politics
- CPO 3103 — Government and Politics of Western Europe
- CPO 3304 — Latin American Politics
- CPO 3502 — Government and Politics of the Far East
- CPO 3643 — Government and Politics of Soviet Union and Eastern Europe

**INTERNATIONAL POLITICS (IP)**

Breadth area requirement can be met by one of the following courses:

- INR 3002 — Dynamics of World Politics
- INR 3102 — American Foreign Policy

**POLITICAL THEORY AND METHODOLOGY (PT)**

Breadth area requirement can be met by one of the following courses:

- POT 3013 — Ancient and Medieval Political Theory
- POT 3054 — Modern Political Theory I
- POT 3055 — Modern Political Theory II
- POT 3064 — Contemporary Political Theory
- POT 3104 — American Political Thought
- POT 3302 — Political Ideologies

**B. Depth Requirements**

Five courses in any one of these three areas of concentration:

1. **AMERICAN/JUDICIAL POLITICS (AP, JP)**  
Courses chosen may be all "AP" or "JP" or a mix of both
2. **COMPARATIVE/INTERNATIONAL POLITICS (CP, IP)**  
Courses chosen may be all "CP" or "IP" or a mix of both
3. **POLITICAL THEORY (PT)**

**C. Electives:**

The remaining courses necessary to complete the B.A. requirements may be taken outside the major but are normally chosen to complement the student's academic and career interests.

Minor in Political Science:  
Tamiami and Bay Vista Campuses

1. No required courses, but note that POS 3044 will *not* count toward the minor.
2. Minimum of five courses in Political Science
3. Maximum of one course each in Political Science internships and independent studies may apply to the 5 course requirement.

**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 student include:

1. 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 ten credit hours in internships toward his major. Three additional hours may be counted as electives for a maximum of nine 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 30 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**

CPO — Comparative Politics; INR — International Relations; PAD — Public Administration; POS — Political Science; POT — Political Theory; PUP — Public Policy.

**CPO 3055 Authoritarian Politics (3)**  
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 3103 Government and Politics of Western Europe (3)**  
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 3304 Latin American Politics (3)**  
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 3340 Politics of Mexico (3)**  
This course analyzes the structure and process of the Mexican-political system from four perspectives: 1) Mexico's revolutionary heritage; 2) its formal government structure; 3) formal political relations; and 4) the structure and process of Mexican political economy.

**CPO 3401 The Arab-Israeli Conflict (3)**  
This course provides the student with an introduction to the political roots of the Middle East conflict, and examines the dilemmas of finding a solution by focusing on the domestic and international constraints imposed upon the major actors.

**CPO 3403 Politics of the Middle East (3)**  
This course will focus on the social, cultural, and political aspects of the Middle East region. Through an understanding and an interweaving of these complex facets, a student should gain a foundation and background for comprehension of the contemporary conflict which pervades this mercurial region.

**CPO 3502 Government and Politics of Far East (3)**  
An intensive examination of the major political institutions of China, Japan, and Korea. A critical analysis of changing aspects of traditional



relationships in Far Eastern political culture and major reform movements in contemporary Far Eastern politics. Allows the student to better understand nations whose political development will be an important factor in global development.

**CPO 3541 Government and Politics of China (3)**

This course introduces students to China's political history from 1840-1982, and analyzes politics in the People's Republic of China with special emphasis on political and economic development, socio-economic and political conflict, ideology, and foreign policy.

**CPO 3643 Government and Politics of the Soviet Union and Eastern Europe (3)**

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 ideology in shaping policy processes and content is given careful analysis. (CP)

**CPO 4002 Theory in Comparative Politics (3)**

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 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 (3)**

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 non-national actors (CP/IP)

**CPO 4053 Political Repression and Human Rights (3)**

Examination of domestic factors resulting in political repression and violations of human rights. American, European, and South American examples will be used.

**CPO 4072 Comparative Electoral Behavior (3)**

Public opinion, voting choice, and electoral patterns from a comparative 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 4303 Government and Politics of South America (3)**

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 4323 Government and Politics of the Caribbean (3)**

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 non-industrial 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)

**CPO 4333 Central American Politics (3)**

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 4360 Cuban Politics (3)**

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)

**CPO 5935 Topics in Comparative Politics (3)**

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.

**CPO 6939 Seminar in Comparative Politics (3)**

Graduate seminar on special topic in comparative politics. Topic to be announced in advance.

**INR 3002 Dynamics of World Politics (3)**

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, and 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 3102 American Foreign Policy (3)**

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)

**INR 3403 International Law (3)**

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 4084 Ethnicity in World Politics (3)**

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 4204 Comparative Foreign Policy (3)**

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 American in World Politics (3)**

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 (3)**

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)

**INR 4501 Multinational Organizations (3)**

The course examines contemporary international politics through an analysis of intergovernmental and non-governmental actors. It emphasizes the prominent role played by increasing levels of transnational relations, interdependence, and global dominance in world politics.

**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. (IP)

**INR 4932 Topics in International Law (3)**

An 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 4933 Topics in International Politics (3)**

An 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.

**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 5936 Topics in International Politics (3)**

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.

**INR 6007 Seminar in International Politics (3)**

Graduate seminar on special topic in international politics. Topic to be announced in advance.

**INR 6205 World Politics (3)**

This course provides graduate students with an understanding of the major conceptual approaches to world politics. It emphasizes the analysis of significant actors, institutions, and processes at work in the contemporary global system as well as possible future alternatives.

**INR 6937 Seminar in International Law (3)**

Allows for specialized and topical offerings by regular and visiting faculty. Also permits experimental courses.

**PAD 3003 The Administrative Process (3)**

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 4803 Urban Government and****Administration (3)**

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 decision-making 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 2002 Introduction to Politics (03)**

An introduction to Political Science. Topics include individual and policy, the nation state, ideologies, comparative politics of developed and developing countries, and international politics.

**POS 3001 Foundations of Political Science (3)**

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 3071 Corporate Power and American****Politics (3)**

An examination of the formal and informal linkages between the private and public sectors and the sets of relationships which govern each. Particular attention is devoted to the exploration of the political role of business and the close but uneasy relationship between private enterprise and democracy.

**POS 3044 Government and Politics of****the U.S. (3)**

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 3153 Urban Politics (3)**

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 political culture. Enables the student to understand major problems confronting communities in urban areas. (AP)

**POS 3283 The Judicial Process (3)**

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 policy-making system, and evaluates its strengths and weaknesses from a policy-making perspective. (JP)

**POS 3413 The Presidency (3)**

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 3424 The Legislative Process (3)**

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 (3)**

Studies the internal structure, political functions, and behavior of modern political parties. Attention is given to the relationships between political parties and various economic, 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 (3)**

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 (3)**

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)

**POS 3703 Methods of Political Analysis (3)**

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 (3)**

A student majoring in Political Science may spend several semesters fully employed in industry or government in a capacity relating to the major.

**POS 4122 State Government and Politics (3)**

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)

**POS 4154 Topics in Urban Politics and****Policy (3)**

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 (3)**

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 (3)**

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)

**POS 4284 Judicial Behavior (3)**

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 4463 Interest Group Politics (3)**

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 (3)**

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 (3)**

An examination of the various modes of dispute settlement and rule adjudication cross-culturally. 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 in Political Science (3)**

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 4930 Topics in Public Law (3)**

An examination of selected topics in the field of public law. The subjects will vary depending upon the desires of students and faculty.

**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 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. (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 (3)**

A student majoring in Political Science may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

**POS 5605 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 5932 Topics in Urban Politics**

An extensive examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimized, and administered by urban policy-making processes, includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas.

**POS 6146 Seminar in Urban Politics (VAR)**

Graduate seminar on special topics in urban politics. Topic to be announced in advance.

**POS 6934 Seminar in Politics (VAR)**

Subject matter varies according to instructor.

**POS 6936 Seminar in Public Law**

Graduate seminar on special topic in public law. Topic to be announced in advance.

**POT 3013 Ancient and Medieval Political Theory (3)**

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 I (3)**

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)

**POT 3055 Modern Political Theory II (3)**

An analysis of the thought of the great political thinkers of the late eighteenth, nineteenth, 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 3064 Contemporary Political Theory (3)**  
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 3204 American Political Thought (3)**

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 3302 Political Ideologies (3)**

An analysis of modern political ideologies since the French Revolution, including liberalism, conservatism, and socialism. Particular 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 5934 Topics in Political Theory (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.

**URP 4146 Planning and Human Ecology (3)**

A social and political introduction to urban and environmental planning and design utilizing a human ecology perspective. Examines issues of open space planning, urban design, neighborhood planning, and citizen participation.

**PUP 3004 Public Policy: U.S. (3)**

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 4203 Environmental Politics and Policy (3)**

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 (3)**  
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 (3)**  
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 4931 Topics in Public Policy**  
An 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 interests to him or her.

**PUP 5934 Topics in Public Policy (VAR)**  
An intensive examination of selected topics

*Prerequisites:* STA 3122 must be taken before PSY 3043C.

2. Other advanced laboratory or field experience 5

*Note:* To be taken during senior year.

*Prerequisites:* PSY 3043C, STA 3122.

*Required Course in Statistics* 3  
STA 3122 (3)

*Note:* STA 3123 and COP 3112 (Mathematical Sciences Department) are recommended for students planning to enter graduate school.

*Elective Courses in Psychology* at least 21  
*Note:* PSY 4693C is especially recommended for the student planning to take the psychology specialty part of the Graduate Record Examination.

*Elective Courses Outside of Psychology:* See *College-wide requirements* at least 6

#### *Distribution Requirements:*

To fulfill the above 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.

Lecture	Laboratory/Field Experience
<b>Area A: Experimental</b>	
EXP 3523	EXP 4214C
EXP 4204	EXP 4404C
EXP 4605	EXP 5005C
PSB 4003	
<b>Area B: Social</b>	
SOP 3004	SOP 4215C
SOP 4522	SOP 4714C
SOP 4525	
SOP 4842	
<b>Area C: Community/Industrial/Consumer</b>	
CYP 3003	CYP 4953
INP 3002	INP 4055C
SOP 4712	SOP 4649
SOP 4645	
<b>Area D: Personality/Abnormal</b>	
CLP 3003	PPE 4325C
CLP 4144	
EXP 3304	
PPE 3003	
<b>Area E: Developmental</b>	
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; Elective courses may be taken under the Pass/Fail option if so offered.

#### **Bachelor's degree with Honors:**

Application must be made and departmental approval granted, before the second semester 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.

#### **Minor in Psychology**

A Minor in Psychology requires 15 semester hours of approved psychology credits. Students seeking the minor must meet with a psychology faculty member for advisement and should file with the Psychology Department a written notice of intention to minor in psychology. A grade of "C" or better (or "Pass" if taken under the Pass/Fail option) is required in all courses counted toward the minor.

## **Master of Science in Psychology**

The Masters of Science in Psychology program at the University, which has a community specialization, is designed to train practitioners and researchers who can function in a variety of academic and applied settings. The core curriculum and admission prerequisites are intended to provide students with a base of knowledge in psychology. The advanced phases of training offer the possibility for developing a concentration in one of three broad areas: 1) community intervention and institutional change, 2) life span development, and 3) research on basic processes. A distinctive feature of the program is its emphasis on a close working relationship between student and faculty and the development of individual speciality areas for students. Under faculty supervision, students are encouraged to develop individually tailored programs of study that reflect both student interests and program strengths.

The curriculum consists of 48 semester hours of graduate study in which the exposures focus specifically on training the student to perform the skills mentioned above. Students are expected to select electives, project/thesis topics and supervised field experiences that meet not only the degree requirements, but also their academic interest and particular professional objectives.

## **Graduate Admission Requirements**

The following are *in addition to* the University's *Graduate Admission Requirements*:

1. A "B" or better grade point average (3.0) during the last two years as an upper division student *and/or* a total score (quantitative plus verbal) of 1,000 or higher on the Graduate Record Exam. Foreign students whose native language is not English must take the Test of English as a Foreign Language (the TOEFL examination) and obtain a 500 score of better.
2. The GRE and grade-point average stated above are only *minimum* requirements. All applications are reviewed by the Graduate Studies Admission Committee, which makes the final admissions decisions. Since admission to the program is competi-

## **Psychology**

Jacob Gewirtz, *Professor and Chairperson*  
Benjamin Algaze, *Assistant Professor*  
Nancy Blaney, *Assistant Professor*  
Milton Blum, *Professor*  
Marvin Dunn, *Associate Professor*  
Luis Escovar, *Assistant Professor*  
Joan Erber, *Associate Professor*  
Gordon Finley, *Professor*  
Ronald Fisher, *Associate Professor*  
James Flanders, *Associate Professor*  
Arthur Flexner, *Assistant Professor*  
Paul Foss, *Associate Professor*  
Edward Girden, *Distinguished Professor Emeritus*  
Fernando Gonzalez-Reigosa, *Associate Professor*  
Mary Levitt, *Assistant Professor*  
William Kurtines, *Associate Professor*  
Gary Moran, *Professor*  
Janet Parker, *Associate Professor*  
James Rotton, *Associate Professor*  
Bernard Saper, *Professor*

**LOCATION:** Both Campuses.

**DEGREE:** Bachelor of Arts

**LOWER DIVISION PREPARATION:**

*Required Course:* Introductory Psychology

**UPPER DIVISION PROGRAM:**

*Semester Hours*  
*Specific Required Courses in Psychology* 10

PSY 3043C 1. Advanced General

Psychology 5

Lecture (2)

Laboratory (3)

*Note:* Lecture and Laboratory to be taken concurrently in junior year.



tive, the committee's requirements are normally *higher* than the minimum standards stated above.

## Graduate Admissions Procedures

1. Mail a photocopy of the admission application submitted to the Admissions Office to the Graduate Studies Admission Committee, Department of Psychology, Florida International University, Miami, Florida 33199.
2. Mail a brief essay stating reason(s) for interest in the program and career goals to the Graduate Studies Admission Committee (same address).
3. Have three letters of recommendation, preferably from previous instructors and/or persons familiar with applicant's academic background, mailed *directly* to the Graduate Studies Admission Committee (same address).

Applicants to the program who are not psychology majors may be accepted conditionally until they meet the category I-III requirements, listed below, early in their graduate career. A maximum of 9 semester hours credit earned in the non-degree seeking student category exclusive of prerequisite undergraduate courses may be applied to graduate degree requirements. The undergraduate course requirements are designed to make certain that students accepted into the graduate program have a broad base of dependable psychological knowledge and acquaintance with the basic methodologies upon which the discipline is founded.

**CATEGORY I.** Satisfactory completion of one upper division course or laboratory course in four of the five following core course areas. At least one of the four courses must be from the experimental area. The core areas are: A) Experimental, B) Social, C) Community/Industrial/Consumer, D) Personality/Abnormal E) Developmental as noted in the undergraduate distribution requirements above.

**CATEGORY II.** Satisfactory completion of one psychology laboratory course.

**CATEGORY III.** Satisfactory completion of introductory statistics.

## 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** (3)  
Study of personal adjustment in the social and occupational life of the individual. Emphasis on interpersonal aspects of effective behavior.

**CLP 4144 Abnormal Psychology** (3)  
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** (3)  
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** (3)  
Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including "practicum" assignments if feasible) are covered.

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

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

**CYP 3003 Introduction to Community Psychology** (3)  
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 psychologist as an agent of social change.

**CYP 4953 Community Psychology Field Experiences I** (5)  
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. Prerequisites: Introduction to Community Psychology, PSY 3043, STA 3122.

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

**CYP 5535 Psychology of Institutional and Social Change** (3)  
A study of the theoretical basis 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** (5)  
Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences I.

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

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

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

**CYP 6766 The Psychology of Crosscultural Sensitization in a Multicultural Context** (3)  
A series of weekly seminars to increase student sensitivity to working with clients from different cultural backgrounds. The objectives of the course are: (1) facilitating student awareness of cultural differences and their impact on social and human services delivery systems, (2) identifying the student's own personal cultural biases and values when interacting with culturally different persons, and (3) teaching students to develop culturally appropriate intervention skills.

**CYP 6936 Current Issues in Community****Psychology (3)**

An intensive analysis of contemporary theoretical, practical, and professional aspects of the field of Community Psychology. Topics discussed may lead to the graduate project required of each student. Prerequisite: Admission to graduate study in psychology (other graduate students admitted by permission of instructor).

**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 (3)**

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 Childhood (3)**

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 (3)**

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 (3)**

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 Psychology of Moral Development (3)**

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 (3)**

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 (3)**

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.

**DEP 4213 Childhood Psychopathology (3)**

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 (3)**

An examination of the factors that 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) and Laboratory (3) (5)**

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, one developmental psychology course, and STA 3122.

**DEP 5145 Culture and Childhood (3)**

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.

**DEP 5405 Psychological Processes of the Maturing Adult (3)**

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 (3)**

Studies different approaches to the modification of problem behavior, through the application of learning principles and theories.

**EAB 5655 Advanced Methods of Behavior Change (3)**

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

**BDP 6935 Special Topics in Educational Psychology (VAR)**

An intensive analysis of a particular topic in educational psychology. Students must have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the School of Education.

**EXP 3304 Motivation and Emotion (3)**

Introduces several perspectives from learning theory, perception, and personality theory to explore ways in which people move through their physical and social environment.

**EXP 3523 Memory and Memory Improvement (3)**

This introduction to human memory considers the topics from a number of points of view. The following issues are addressed: the nature of memory and its phenomena; the capabilities and limitations of an ordinary and an extraordinary memory; and the skills that can aid an ordinary memory.

**EXP 3652 Psychology of Creativity (3)**

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.

**EXP 4204 Sensation and Perception (3)**

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 4214C Human Perception: Lecture (2) and Laboratory (3) (5)**

Lectures concern the methods researchers use to learn about the phenomena of sensation and perception. Laboratory exercises allow students to apply these methods and to experience the perceptual phenomena under investigation. Prerequisites: PSY 3043, STA 3122.

**EXP 4404C Human Learning and Remembering: Lecture (2) and Laboratory (3) (5)**

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. Prerequisites: Advanced General Psychology with Laboratory (PSY 3043C), and STA 3122.

**EXP 4605 Cognitive Processes (3)**

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** (3)  
The stress in this course is on current specific theories determining the nature and direction of the research and interest in 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: Lecture and Laboratory** (5)  
Lecture and laboratory course investigating experimental research in the fundamental processes of human behavior. Includes perceptual, cognitive, and linguistic processes. Prerequisites: PSY 3043C, STA 3122.

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

**INP 3002 Introductory Industrial/Organizational Psychology** (3)  
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 Laboratory (3)** (5)  
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, and PSY 3043.

**INP 4203 Personnel Psychology** (3)  
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 quantitative 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** (3)  
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 nonobtrusive 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.

**LIN 4710 Language Acquisition** (3)  
An examination of the way children acquire language, based on experimental findings from contemporary linguistics, psycholinguistics, and behavioral theory.

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

**PPE 3003 Theories of Personality** (3)  
An examination of various theories of personality. Consideration is given to traditional and contemporary approaches to personality development.

**PPE 3502 Psychology of Consciousness** (3)  
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 deprivation; biofeedback; psychosomatic disease; hypnotism and suggestibility; as well as a critical treatment of the phenomena of parapsychology.

**PPE 4105 Humanistic Psychology** (3)  
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 4123 Nonverbal Behavior** (3)  
An overview of theory and research relating to nonverbal channels of communication, including eye-contact, personal space, territoriality, touching, facial gestures, body language, and vocal cues.

**PPE 4325C Differential Psychology: Lecture (2) and Laboratory (3)** (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. Prerequisites: STA 3122, or an equivalent introductory course in statistics, and PSY 3043.

**PPE 4514 Psychology of Dreams and Dreaming** (3)  
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.

**PPE 4604 Psychological Testing** (3)  
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.

**PPE 4930 Topics in Personality** (VAR)  
Special topics will be announced in advance.

**PSB 4003 Introductory Bio-Psychology** (3)  
A study of the more important psychobiological correlates of behavior in basic psychological phenomena.

**PSY 2020 Introductory Psychology** (3)  
Psychological principles underlying the basic processes of sensation, perception, cognition, learning, memory, life-span developmental, social behavior, personality, abnormal behavior, and psychotherapy.

**PSY 3043C Advanced General Psychology with Laboratory: Lecture (2) and Laboratory (3)** (5)  
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 provide 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.

**PSY 4693C Overview of Psychology** (3)  
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: 12 semester hours in upper division psychology courses.

**PSY 4900 Independent Readings 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 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 (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 (1)**  
An advanced seminar 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.

**PSY 5206C Design of Experiments in Psychological Research (3)**

Reviews the Analysis of Variance, and introduces the student to randomized and blocking designs, factorial designs, fractional factorial, main effects and other plans that 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 5246C Multivariate Analysis in Applied Psychological Research (3)**

Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotellings  $T^2$ , MANOVA, principle component analysis, and factor analysis. Prerequisite: STA 3123 or equivalent; linear algebra recommended.

**PSY 5908 Directed Individual Study (VAR)**

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

**PSY 5917 Psychology Research Proseminar (3)**

Specialized research are presentation by faculty members in his or her major research area. Seminar style. This course is intended as a core course for the masters program in psychology. Prerequisite: Full graduate admission.

**PSY 5918 Supervised Research (VAR)**

Research apprenticeship under the direction of a research professor or a thesis advisor. Prerequisite: Full graduate admission.

**PSY 5939 Special Topics in Psychology (VAR)**  
Special topics will be announced in advance.**PSY 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 (3)**

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 (3)**

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 (3)**

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 (3)**

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 (3)**

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 (3)**

Theories, research data, and community applications of prosocial activities, such as giving, helping, volunteering, and altruism.

**SOP 3932 Psychology of Drugs and Drug Abuse (3)**

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 (3)**

This course provides a survey of social and personality development throughout the life cycle. Emphasis will be placed on the interaction between psychological and environmental variables on life-span development changes.

**SOP 4050 Social Psychology in Latin America (3)**

Upper division seminar on Social Psychology in Latin America. The course will provide the student with the opportunity to survey the literature and research in social psychology from different countries in Latin America and to compare that material with on-going research and literature in the United States. Prerequisites: SOP 3004 and reading knowledge of Spanish.

**SOP 4215C Experimental Social Psychology: Lecture (2) and Laboratory (3) (5)**

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. Prerequisites: PSY 3043, STA 3122.

**SOP 4444 Attitudes and Ethnicity: A Cross-Cultural Psychological Approach (3)**

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 (3)**

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 (3)**

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 (3)**

Focuses upon those sources of human motivation that are a consequence of man's social-interpersonal 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 (3)**

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 (3)**

This course addresses the psychological components contributing to satisfaction and dissatis-



faction 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 Psychology** (5)

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. Prerequisites: PSY 3043, STA 3122.

**SOP 4705 Psychology of Social Change** (3)

An examination of methods of implementing institutional change. Consideration is given to alternatives such as violent vs. non-violent confrontation, and the use of information as an instrument of change.

**SOP 4712 Environmental Psychology** (3)

An introduction to the man-environment interaction, including psychological, sociological and physical aspects.

**SOP 4714C Environment and Behavior** (5)

Students gain experience with laboratory and field techniques used in the study of the reciprocal relationship between the physical environment and human behavior. PSY 3043 or permission of instructor is prerequisite for enrollment.

**SOP 4715 Psychological Influence of Culture on Learning and Thinking** (3)

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** (3)

A study of the psychological, especially social, factors in the dynamics of international behavior interactions, which may increase or decrease tensions and conflicts.

**SOP 4834 Psychology of Health and Illness** (3)

Course provides an overview of the field of behavioral medicine, the interface of psychology with health and health care. Psychological factors in illness, health, and health delivery systems will be covered. Prevention and early intervention will be stressed.

**SOP 4842 Legal Psychology** (3)

Particular emphasis will be given to interpersonal courtroom processes. Topics considered include scientific jury selection, proxemics, persuasive argumentation, witness demeanor, eyewitness testimony, and similar influences upon juror decision making. Prerequisite: None.

**SOP 5058 Advanced Social Psychology** (3)

An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum Prerequisite: An introductory course in social psychology or its equivalent.

**SOP 5616 Social Psychology of Organizations** (3)

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

**SOP 5765 Psychology of Community Development** (3)

An in-depth study of the psychological aspects of community development and related intervention strategies. Emphasis is placed on variables which show consistent relationships across levels of analysis.

**SPA 5401 Disorders of Language in Childhood** (3)

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 developmental psychology.

## Religious Studies

*James Huchingson, Associate Professor and Chairperson, Department of Philosophy and Religion*

*Bongkil Chung, Assistant Professor*

*Robert Ham, Assistant Professor*

LOCATION: Tamiami Campus

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

*Required Courses:* None

*Recommended Courses:* Religion, Philosophy

UPPER DIVISION PROGRAM:

	<i>Semester Hours</i>
<i>Required Areas:</i>	30
Religion and Culture	6
Ecumenical and Historical Studies	3
Biblical Studies	3
Religious Studies Seminar	3
Other Religious Studies Courses or Optional Tracks	15
Courses in one other discipline	12
<i>Electives:</i>	18
	60

*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 twelve semester hour credits required in one other academic discipline or unified area (as part of the Religious Studies Major) would be met by courses taken towards the second major.

The Department offers many of its courses at the Bay Vista Campus and participates in the Humanities Major. It also serves the community and professional groups by offering courses Off-Campus. For further information concerning these courses consult the department.

**Minor in Religious Studies:**

A student majoring in another academic discipline can earn an academic minor in religious studies by taking a pattern of at least four REL courses (12 semester hours), based on an academic rationale or a 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

**Definition of Prefixes**

REL — Religion.

GRW — Greek Writings.

**GRW 4250 Introduction to Ancient Greek** (3)  
This course introduces the Greek language of Plato, the New Testament, and other works of the ancient period. Its goal is to enhance the understanding of translated texts and to prepare for more advanced study of Greek. A portion of the Gospel of John will be studied in class.

**REL 2936 Special Topics** (3)  
In-depth study of topics of special interest in religion.

**REL 3100 Religion and Culture** (3)  
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 American culture.

**REL 3131 American Sects and Cults** (3)  
Examines several recent religious movements in American life, such as the Unification Church, the International Society for Krishna Consciousness, UFO cults, and others.

**REL 3160 Science and Religion** (3)  
The methods, assumptions, and goals of religion will be compared with those of the natural and human sciences. Specific issues, such as evolution, sociobiology, and the new astronomy will be considered to illustrate similarities and differences between the two approaches.

**REL 3172 Religion and Ethics** (3)  
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 3204 Introduction to the Bible** (3)  
An introduction to the scriptures of Judaism and Christianity, including such topics as their background, their most important writers, and their uses in postbiblical religion.

**REL 3205 How to Study The Bible** (3)  
This course introduces the Bible and the methods and tools of biblical study, including translations, word studies, historical studies, and the use of appropriate secondary resources.

**REL 3270 Biblical Theology** (3)  
Explores the ideas of God, man, redemption, ethics, and the after-life, tracing each through its development from earliest Hebrew thought to the rise of post-biblical Judaism and Christianity.

**REL 3300 Religions of the World** (3)  
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 3303 Forgotten Religions** (3)  
Examines the beliefs and practices of ancient Egyptian, Semitic, Greek, and Germanic religions, their influences on later civilization and religious thought, and the possible continuing insights offered by each.

**REL 3411 Meaning of Life** (3)  
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 3510 Early Christianity** (3)  
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** (3)  
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 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** (3)  
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 3939 Cooperative Education in Religion** (3)  
A student majoring in Religious Studies may spend one or two semesters fully employed in industry, government, or other appropriate institutional setting in a capacity relating to the major. Permission of Cooperative Education and major department.

**REL 4173 Technology and Human Values** (3)  
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 4226 The Prophets and Israel** (3)  
Examines the setting of the prophets in the history of Israel, their contributions to biblical religion, and their use in later religious and renewal movements.

**REL 4251 Jesus and Paul** (3)  
Examines the historical settings, teachings, significance, and later interpretations of Christianity's founder and its foremost interpreter.

**REL 4311 Oriental Meditation** (3)  
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.

**REL 4420 Contemporary Religious Thought** (3)  
A survey of major figures in contemporary theology for the purpose of understanding their thought and its application to current issues in religion and society.

**REL 4440 Man and Nature** (3)  
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 4481 Contemporary Latin American Religious Thought** (3)  
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 both in a practical and a 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** (3)  
This seminar is designed for majors and other qualified students approved by the Department.

The specific topic will be selected and announced in advance. The number of participants will be limited.

**REL 4936 Special Topics** (3)  
In-depth study of topics of special interest in religion.

**REL 4949 Cooperative Education in Religion** (3)  
A student majoring in Religious Studies may spend several semesters fully employed in industry, government, or other appropriate institutional setting in a capacity relating to the major. Permission of Cooperative Education and Major Department.

**REL 5937 Special Topics** (3)  
Topics will be selected to meet the academic needs of groups of students.

## Sociology/Anthropology

William T. Vickers, Associate Professor and Chairperson

Jerry Brown, Associate Professor  
Stephen Fjellman, Associate Professor  
Antonio Jorge, Professor  
Barry Levine, Professor  
Shearon Lowery, Assistant Professor  
Anthony P. Maingot, Professor  
James Mau, Professor and Dean, College of Arts and Sciences  
William Osborne, Associate Professor  
Alex Stepick, Assistant Professor

LOCATION: Tamiami Campus

DEGREE: Bachelor of Arts

### LOWER DIVISION PREPARATION:

To be admitted to the upper division, students must meet the University's and College's admission requirements. Coursework in pre-Arts and Sciences, or pre-Anthropology or Sociology is recommended. Students without an AA degree must have the background to handle advanced academic work.

**Required Courses:** Introduction to Cultural Anthropology, or Introduction to Physical Anthropology, or Introduction to Sociology. If the student does not have one of these courses, it will be required as 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:

	Semester Hours
<b>Required Courses:</b>	<b>27</b>
<b>Core Courses:</b>	<b>12</b>
ANT 3086	Anthropological Theories 3
SOC 3500	Research Methods 3
SOC 3610	Sociological Theories 3
SSI 3303	Ethical Issues in Social Science Research 3



**AREA COURSES:** either Anthropology or Sociology  
*Electives:* with the approval of the faculty advisor

15  
 33  
 60

**Tracks:** The Department of Sociology/Anthropology offers the following academic tracks:  
 1) General Sociology/Anthropology; 2) Graduate Training; 3) Human and Social Services; 4) Community Research and Public Policy; 5) Communications and Arts; 6) Social Psychology. 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 of theory and research. Each student will be encouraged to work outside the formal classroom under faculty supervision.

**Minor in Sociology/Anthropology**

**PRESCRIBED COURSES:** 15 credits in the Department of Sociology/Anthropology including the following:

Two courses from the following:

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; DHE — Demography & Human Ecology; HUS — Human Services; LIN — Linguistics; MAF — Marriage & Family; SOC — Sociology; SSI — Social Sciences-Interdisciplinary.

**ANT 3000 The Scope of Anthropology** (3)  
 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 3086 Anthropological Theories** (3)  
 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.

**ANT 3144 Prehistory of the Americas** (3)  
 Early man in the Americas is examined through archaeological records.

**ANT 3241 Myth, Ritual and Mysticism** (3)  
 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** (3)  
 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 3263 World Food Supply** (3)  
 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** (3)  
 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** (3)  
 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.

**ANT 3403 Cultural Ecology** (3)  
 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 3435 The Individual in Anthropology** (3)  
 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** (3)  
 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 3476 Movements of Rebellion and Revitalization** (3)  
 Cross-cultural 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** (3)  
 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 4007 The Organizer** (3)  
 The dynamics of mass organizations, responsible for major social transformations, will be examined in comparison with those of corporate and public interest organizations. Strategies of leadership (Gandhi, Hitler, Mao, King), team building, goal setting, and negotiating will be explored through workshops.

**ANT 4224 Tribal Art and Aesthetics** (3)  
 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** (3)  
 This course develops a cultural ecological framework for analyzing the relationship between food productions, land use, energy consumption, and public policy in both local and international contexts.

**ANT 4211-4360-4361-4328 Area Studies** (3)  
 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 4273 Law and Culture** (3)  
 A cross-cultural examination of the practical and theoretical relationships between the legal system and other aspects of culture and society.

**ANT 4305 Explorations in Visual Anthropology** (3)  
 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 4314 The American South: A Regional Subculture** (3)  
 A course designed to provide an understanding of the Southern regional subculture. Discussion topics will include an analysis of the socio-cultural characteristics attributed to this region.

**ANT 4324 Mexico** (3)  
 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** (3)  
 A survey of the culture and intellectual achievements of the ancient Maya civilization of Mesoamerica. Course includes: history and social-political structure, archaeology, agriculture and city planning, mathematics, hieroglyphics, astronomy, and calendars. No prerequisites.

**ANT 4329 Research in Maya Civilization** (3)  
 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** (3)  
 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.

**ANT 4340 Cultures of the Caribbean (3)**  
An ethnological survey of native cultures and of the processes of culture contact and conflict in the Caribbean and Circum-Caribbean region.

**ANT 4352 African Peoples and Cultures (3)**  
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 4406 Anthropology of War and Violence (3)**  
The purpose of this course is to introduce the scientific study of human aggression and warfare from an evolutionary and cross-cultural perspective in order to gain a better understanding of the causes and consequences of such behavior, and to evaluate proposed options for the control of warfare.

**ANT 4433 Psychological Anthropology (3)**  
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 (3)**  
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 4460 Hallucinogens & Culture (3)**  
Cross-cultural examination of the political, religious, and socio-cultural factors related to altered states of consciousness, including dreams and images. Applications to contemporary psychology are explored.

**ANT 4469 Special Topics in Medical Anthropology (3)**  
Special courses dealing with advanced topics including: (1) folk medicine and ethnohistory; (2) nutritional anthropology; (3) anthropology and nursing; (4) medical anthropology and the elderly.

**ANT 4705 Applied Anthropology (3)**  
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 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 (3)**  
Special courses dealing with advanced topics in the major anthropological subdisciplines: (1) social and cultural anthropology, (2) applied 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 5908 Directed Individual Study (VAR)**  
Supervised readings and/or field research and training. May be repeated.

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

**MAF 3210 Marriage and the Family (3)**  
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 (3)**  
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.

**MAF 4511 Studies in Comparative Lifestyles (3)**  
A problem-oriented course emphasizing the differential behavior associated with categories such as nationalism, social class, income distribution, and political or religious affiliation.

**SOC 2000 Introduction to Sociology (3)**  
This course introduces the sociological perspective and method, and the basic areas of sociological interest such as socialization, sex roles, social groups, race and ethnic relations, deviance and social control, social stratification, and urban life.

**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 (3)**  
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) (3)**  
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 (3)**  
An analysis of behavior which is extra-legal, with major concentration on its appearance 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 (3)**  
An introduction to the study of criminal behavior, its evidence in society, society's reaction to the subjects involved, and the current state of theoretical thought on causality and treatment.

**SOC 3281 School and Society (3)**  
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).

**SOC 3300 The Community (3)**  
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 3402 Social Change (3)**  
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 3500 Research Methods (3)**  
An introduction to the scientific methods 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 (3)**  
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 (3)**  
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 3830 The Individual in Society (3)**  
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 (3)**  
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 (3)**  
A student majoring in one of the Social Sciences (Economics, International Relations, Political Sciences, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.



**SOC 4003 Sociology of the 20th Century (3)**

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 (3)**

Popular and documentary films as data for the analysis of various sociological problems.

**SOC 4211 Sociology of Religion and Cults (3)**

The study of religions 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 4221 Political Sociology (3)**

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.

**SOC 4243 Sociology of Death (3)**

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 4265 Man, Society and Technology (3)**

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 4301 Community Organization (3)**

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 (3)**

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.

**SOC 4331 Latin American and Caribbean Social Structures (3)**

Exploration of the types of social structures, statuses, and roles, and the resulting distributions of power and authority in the hemisphere.

**SOC 4406 The Problems of Bureaucracy in The Modern World (3)**

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 4410 Social Stratification (Mobility) (3)**

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 4440 Social Conflict (3)**

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.

**SOC 4464 Sociology of the Underprivileged Societies (3)**

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 (3)**

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 4490 Area Studies: Social Structures and Problems (3)**

Special courses on the social structures and related problems of specific geographical and cultural areas. To be offered at various times.

**SOC 4504 Basic Research Design (3)**

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 (3)**

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 4611 Advanced Social Theory (3)**

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 (3)**

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 (3)**

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 4651 Sociology of Art and Literature (3)**

This course approaches the question of art and society through an analysis of: the social production of art; the relationship between imagination and society; the role of the artist; and the ideological impact of aesthetic theory.

**SOC 4705 The Role of Women in Contemporary Society (3)**

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 4745 Minorities/Race and Ethnic Relations (3)**

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 (3)**

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.

**SOC 4829 Ethnomethodology (3)**

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 (3)**

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 (3)**

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 (3)**

Analysis of the social, political and cultural impact of mass communications.

**SOC 4842 Symbols and Society (3)**

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 4941 Directed Field Research (VAR)**

Permission of instructor required.

**SOC 4949 Cooperative Education in Social Sciences (3)**

A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the ma-

for. Prerequisite: Permission of Cooperative Education Program and major department.

**SOC 5140 Sociology of Law and Legal Processes** (3)

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** (3)  
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** (3)  
Concentrated study of industrialization and the sociological theory involved. Manpower, unemployment, apprentice programs, and classification schemes are studied.

**SOC 5264 Conflict Resolution: Society and Labor** (3)

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 precipitated within different societies and their varied economic and political systems.

**SOC 5284 Sociology of Education** (3)  
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 5656 Sociology of Knowledge** (3)  
The study of the theoretical basis of knowledge and the inter-relatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior.

**SOC 5909 Directed Individual Study** (VAR)  
Supervised readings and/or field research and training. May be repeated.

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

**SSI 3303 Ethical Issues in Social Science Research** (3)

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**  
**Ralph F. Buckley, Associate Professor**  
**William Burke, Associate Professor**  
**James M. Couper III, Associate Professor**  
**Richard Duncan, Associate Professor**  
**Ellen Jacobs, Associate Professor**  
**William Maguire, Associate Professor**  
**Dahlia Morgan, Lecturer/Gallery Director**  
LOCATION: Tamiami Campus.

DEGREE: Bachelor of Fine Arts  
LOWER DIVISION PREPARATION:

**Required Courses:** Six semester hours of Art Survey; three semester hours of 2-D Design; three semester hours of 3-D Design; three semester hours of Basic Drawing; three semester hours of Figure Drawing; six semester hours of beginning studio courses.

**Recommended Courses:** Painting, Sculpture, Printmaking, Ceramics, Photography, Weaving, Jewelry, Glass, Drawing.

**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 60 semester hours to complete the bachelor's degree, or to make up courses at the lower division level.

### UPPER DIVISION PROGRAM:

	Semester Hours
<b>Required Courses:</b>	39
ARH 4450 20th Century Art	3
ARH 4470 Contemporary Art	3
Art History Elective	3
Studio Major	15-18
ART 4955 Thesis and Portfolio	3
Studio Electives	
outside of major	12-21
Electives outside of Visual Arts Department	12-21
	60
<b>MINOR IN VISUAL ARTS</b>	
ARH 4450 20th Century Art	3
ART 3310 Drawing	
OR	
ART 3331 Figure Drawing	3
ART Electives in Studio	12
	18
<b>MINOR IN ART HISTORY</b>	
ARH 4450 20th Century Art	3
ARH 4470 Contemporary Art	3
ART Studio Elective	3
ARH Electives	9
	18

## Course Descriptions

### Definition of Prefixes

ARH — Art History; ART — Art; HUM — Humanities.

**ARH 2050 Art History Survey I** (3)  
A broad survey of the visual arts and architecture from the Paleolithic Period through the Middle Ages.

**ARH 2051 Art History Survey II** (3)  
A broad survey of the visual arts and architecture from the Renaissance through the Modern Age.

**ARH 3009 Survey of Contemporary Art** (3)  
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 4014 History of Decorative Arts** (3)  
A survey of the more important and influential periods in history in the production of ceramics, fabrics, glass, jewelry and silversmithing. Slides, lectures, student research.

**ARH 4131 Greek Art** (3)  
Lectures, slides, research. The Art of Greece from the Bronze Age through the Classical Period.

**ARH 4151 Roman Art** (3)  
Lectures, slides, research. The Art of Ancient Rome from the Early Iron Age through the Late Roman Empire.

**ARH 4310 Early Italian Renaissance** (3)  
Lectures, slides, research. From the origins of Italian Renaissance in the Late Gothic Period to the Early 15th Century.

**ARH 4312 Later Italian Renaissance** (3)  
Lectures, slides, research. The Art of Italy in the later 15th and 16th Century.

**ARH 4431 19th Century Painting** (3)  
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, romanticism, realism, eroticism, pre-raphaeliticism, luminism, and impressionism will be examined.

**ARH 4450 20th Century Art** (3)  
Lectures, films, slides. A survey of European and American Art from 1890-1945.

**ARH 4470 Contemporary Art** (3)  
Lectures, slides, visitors and student research. A survey of art from 1945 to the present.

**ARH 4552 Art of China and Japan** (3)  
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** (3)  
Lectures, slides, visitors and student research.

**ARH 4650 Pre-Columbian Art** (3)  
Slides, lectures, research. A survey of Pre-Columbian Art from approximately 2000 B.C. to 1500 A.D. of Mesoamerica. (Intermediate area from Honduras to Columbia and the Andes).

**ARH 4670 20th Century Latin American Art** (3)  
Lectures, films, slides. The Art of Central, South America and the Caribbean of the Twentieth Century.

**ARH 4710 History of Photography** (3)  
A chronological look at the tradition of the richly descriptive still photograph, from its invention in the 1830's. Sources include science,



photojournalism, and work of artists who photograph.

**ARH 4832L Art Gallery and Display** (1-3)  
The study and participation of all aspects of Gallery operations, from daily operation to special exhibitions and events. Permission of Gallery Director.

**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 semester before course is offered. May be repeated.

**ARH 4910 Research** (VAR)  
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** (3)  
Women in the history of art; past, present and future. Slides, lectures, films, panels and discussions.

**ARH 5907 Directed Studies** (VAR)  
See ARH 4905.

**ARH 5913 Research** (VAR)  
See ARH 4910.

**ART 1201C 2D Design** (3)  
Studio course introducing the basic art elements such as line, value, and color to develop the students vocabulary and awareness of two-dimensional potential in various media.

**ART 1202C 3D Design** (3)  
Studio course introducing the basic elements inherent in three dimensional works of art. Shape, mass, balance, proportion, and scale are elements which will be explored.

**ART 311C Ceramics** (3)  
A beginning course for art and non-art majors. Fundamentals of throwing, hand-building, and glaze application. May be repeated.

**ART 3133C Fabrics and Fibers** (3)  
A creative approach to fabrics and fibers, using processes such as dyeing, embroidery, quilting, soft sculpture, batik, on and off loom weaving, etc. May be repeated.

**ART 3150C Jewelry and Metals** (3)  
A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore the more difficult technical aspects of areas such as hollow ware, enameling, casting, and stone setting. May be repeated.

**ART 3163C Glassblowing** (3)  
A basic course in off-hand glass blowing, concerned with preparing, forming, and finishing glass; understanding of glass as an art form; operation and maintenance of a glass studio. May be repeated.

**ART 3310C Drawing** (3)  
Drawing will be considered as an essential part of every art student's curriculum. Depending on his lower level work, a student will be encour-

aged to take at least one drawing course at the University. Off-campus studio work may be arranged. May be repeated.

**ART 3331C Figure Drawing** (3)  
Drawing from the model during assigned studio time. Open to all students. May be repeated.

**ART 3401C Printmaking** (3)  
With a knowledge of basic intaglio and relief printing, the student will explore specific media such as etching, lithography, silk-screen and other experimental techniques. May be repeated.

**ART 3510C Painting** (3)  
A study of the student's work through the use of visual aids and individual criticism. Any media may be used. May be repeated.

**ART 3601C Photography** (3)  
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 3702C Sculpture** (3)  
With a background in beginning sculpture, the student will develop standards of excellence, both in concept and technique, with stress on individual expression. An equipped shop will be available to the student. May be repeated.

**ART 3949C Cooperative Education in Visual Arts** (3)  
A student majoring in Visual Arts may spend several semesters fully employed in industry in a capacity relating to the major. Must have permission of chairperson.

**ART 4114C Ceramics** (3)  
The advanced student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly self-directed. Prerequisite: ART 3111C, or permission of the instructor. May be repeated.

**ART 4116C Glaze and Clay Calculation** (3)  
The study of the nature, formulation and altering of ceramic glazes and clays.

**ART 4133C Fabrics and Fibers** (3)  
See ART 3133C.

**ART 4151C Jewelry and Metals** (3)  
See ART 3150C.

**ART 4164C Glassblowing** (3)  
See ART 3163C.

**ART 4320C Drawing** (3)  
See ART 3310C.

**ART 4332C Figure Drawing** (3)  
See ART 3331C.

**ART 4402C Printmaking** (3)  
See ART 3401C.

**ART 4532C Painting** (3)  
See ART 3510C.

**ART 4604C Photography** (3)  
See ART 3601C.

**ART 4703C Sculpture** (3)  
See ART 3702C.

**ART 4710C Figure Sculpture** (3)  
To develop skills in representational structure and anatomy from the model and learn mold-making techniques. May be repeated.

**ART 4906C Directed Study** (VAR)  
A group of students, with the approval of the Visual Arts Department faculty, may select a master artist teacher and pursue a course of study in selected areas such as graphic design, film, multi-media, environmental design, sound, etc. Arrangements must be made at least one semester before course is offered. May be repeated.

**ART 4910C Research** (VAR)  
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 4949C Cooperative Education in Visual Arts** (3)  
See ART 3949C.

**ART 4955C Thesis and Portfolio** (3)  
Studio work in student's major area with major professor, resulting in a student exhibit. Arrangements with major professor one semester before graduation. Written thesis required. Prerequisite: 15 semester hours of studio major. (Fall and Spring only).

**ART 5125C Ceramics** (3)  
See ART 4114C.

**ART 5133C Fabrics and Fibers** (3)  
See ART 3133C.

**ART 5159C Jewelry and Metals** (3)  
See ART 3150C.

**ART 5165C Glassblowing** (3)  
See ART 3163C.

**ART 5340C Drawing** (3)  
See ART 3310C.

**ART 5341C Figure Drawing** (3)  
See ART 3331C.

**ART 5403C Printmaking** (3)  
See ART 3401C.

**ART 5580C Painting** (3)  
See ART 3510C.

**ART 5620C Photography** (3)  
See ART 3601C.

**ART 5710C Figure Sculpture** (3)  
See ART 4710C.

**ART 5730C Sculpture** (3)  
See ART 3702C.

**ART 5907C Directed Study** (VAR)  
See ART 4906C.

**ART 5910C Research** (VAR)  
See ART 4910C.

## Certificate Programs

### American Studies Certificate Program

Director: Darden A. Pyron, (*History*).

Coordinating Committee: Don Watson (*English*), Eric Leed (*History*), Lynn Berk (*English*), Howard Rock (*History*), Tucker Arnold (*English*).

LOCATION: Both Campuses.

The American Studies Certificate Program provides the opportunity for students to examine the nature of American civilization through an interdisciplinary study of American history, literature, culture, and thought. The program provides a grounding in American literature and American history, a sampling of how each discipline approaches the study of American civilization, and an opportunity to follow the approaches of political science, anthropology, philosophy and religion. Through a seminar in American studies students will apply the insights of the various disciplines to problems of their own choosing.

The Certificate in American Studies is awarded with a bachelor's degree, or upon completion of Certificate requirements, to a student who already possesses that degree.

General Requirements: A total of 7 courses chosen among the prescribed certification courses with a grade of "C" or better.

Specific Requirements:

AML 3104	Survey of American Literature I	3
AML 3109	Survey of American Literature II	3

Two consecutive semesters chosen from the following:

AMH 3012	American History 1600-1763	3
AMH 3013	American History 1763-1877	3
AMH 3020	American History 1877-present	3
AMS 4938	Seminar in American Studies	3

Two electives chosen from the following:

POT 4204	American Political Thought	3
ANT 3402	Anthropology of Contemporary Society	3
PHH 3700	American Philosophy	3
REL 3100	Religion and Culture	3

An appropriate American Literature course.  
An appropriate American History course.

### 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 Campus.

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 Interdisciplinary Certificate sanctioned by the College of Arts and Sciences.

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 6-7 courses from the courses listed in the Certificate requirements. Completed courses are recorded on a University transcript. These courses may be taken by Non-Degree Seeking Students with the advice of the Certificate Program Director. Non-Degree Seeking 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 semester.

### 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 required courses.

**COA 3410 Consumer Resources** (3)  
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** (3)  
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.

**SOP 4645 Consumer Psychology** (3)  
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

(5)

This course emphasizes original research on the part of the student using the methodologies of the Interactional Workshop and the Observational Guide.

**ELECTIVE COURSES:** The remaining 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.

**COA 4440 Consumer Counseling** (3)  
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** (3)  
Presentation of scope, enforcement, and problems related to consumer law at the local, state, and federal levels.

**ECO 3040 Consumer Economics** (3)  
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 Pollution** (3)  
For non-science majors. An introduction to the fundamental principles and concepts of ecology; and to air pollution and water resources.

**FOS 3004 Food and the Consumer** (3)  
Survey of nutrition information relating to problems and issues of concern to today's consumers.

**HUN 3122 Nutrition and Culture** (3)  
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.

**MAR 4503 Consumer Behavior** (3)  
The consumer as the basis for development of marketing programs by business organizations.

**PHI 4631 Ethical Issues in Business** (3)  
Ethical dimensions of current problems and issues facing the worker or business manager.

**PSY 4941 Independent Field Experience in Psychology** (VAR)

**PUP 4203 Environmental Politics and Policy** (3)  
Steps in the environmental policy-making process whereby private preferences are transformed into public policy.

### Environmental Studies Certificate Program

Director: G. Dalrymple (*Biological Sciences*)  
Coordinating Committee: J. Brown (*Sociology/Anthropology*), J. Gottlieb (*Political Science*), J. Huchingson (*Philosophy and Religion*), J. Parker (*Physical Sciences*).

LOCATION: Tamiami Campus

The Certificate Program in Environmental Studies is designed to provide students in various majors with the unique perspective of interdisciplinary ecological education to both enrich



and expand the breadth of their primary training. The Certificate seeks to provide participants with an analytic basis for understanding the milieu of local and global environmental problems and processes. The curriculum requires no prerequisite and is complementary to majors in all disciplines and schools at FIU.

#### Required Courses:

1. Environmental Science 3010, 3011, and 3013Cor Air Resources (EVR 4231), Water Resources (EVR 4211), and Energy Resources (EVR 4311).
2. Environmental Politics and Policies (PUP 4203).
3. Two electives from the following, at least one of which must be from the Social Sciences or Humanities:
  - ANT 3403 Cultural Ecology
  - ANT 4031 Environmental Revitalization
  - BOT 3663 Tropical Botany
  - ECP 3303 Environmental Economics
  - EVR 3013C Ecology of South Florida
  - EVS 3420 Environmental Instrumentation
  - GEO 3510 Earth Resources
  - INR 3043 Population and Society
  - INR 4054 World Resources, World Order
  - PCB 3043 Fundamentals of Ecology
  - REL 4440 Man and Nature
  - SOP 4712 Environmental Psychology

## 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.

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 six courses with a grade "C" or better.
2. Courses in both the "Core" and "Specialized" areas (indicated below) must be taken from at least two different departments.
3. A maximum of one course in a relevant language will be accepted.
4. A maximum of two courses 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 three courses towards the Certificate.

#### Specific Requirements:

1. A core of a minimum of two to three courses in 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: Ethnicity in World 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 4390 Genre Studies (with reference to Cuban Literature)
- INR 3246 International Relations of the Caribbean
- LAH 3930 Cuban History
- SOC 4331 Latin American and Caribbean Social Structures
- SOC 4613 Third World Theory

#### Specialized Courses in Black Studies:

- AML 5212 Major American Literary Figures

- ANT 4315 Afro-American Anthropology
- ANT 4352 Area Studies
- LIT 4203 Regional Literature in English
- LIT 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

## International Studies Certificate Program

Director: Farrokh Jhabvala (*International Relations*).

Advisory Council: Robert Farrell (*Ed. Leadership*), Jean-François Hennart (*Finance/International Business*), Clair McElfresh (*Undergraduate Studies*), Laurence Miller (*Library*), Luis Salas (*Criminal Justice*), Mark Rosenberg (*Political Science*), John Staczek (*International Affairs Center*), Wunnava Subbarao (*Electrical Engineering & Technology*).

LOCATION: Tamiami Campus (DM 499B9)

International Studies constitutes an important focus for Florida International University. The International Studies Program promotes an interdisciplinary approach to the study of transnational phenomena and awards a Certificate to degree and non-degree students who complete successfully its requirements (stated below). Students pursuing a bachelor's degree may take the Certificate Program to complement their major disciplinary area of study. Those not seeking a degree may take the Certificate Program to obtain a broad and systematic introduction to International Studies. Students interested in this Program should consult with the Director of International Studies.

Program: Minimum of 18 semester hours.

1. At least one of the following courses in International Politics/Relations:
  - INR 2001—Introduction to International Relations
  - INR 3002—Dynamics of World Politics
  - INR 3003—Foundations of International Relations
2. At least one of the following courses in International Economics/Business:
  - MAN 3602—International Business
  - ECO 4701—World Economy
  - ECO 4703—International Economics
3. Three semester hours of independent study under faculty supervision during which a research paper will be written. The independent study and the resulting paper must be approved by the program Director. This paper will be discussed in a joint faculty-student seminar.

4. A minimum of nine semester hours of coursework from courses identified by the program. A list of such courses will be circulated to all students in the program at the start of each semester.
5. Basic competency (two-semester college level) in a language other than English. Language courses where necessary, will not be included as courses within the 18-semester hour coursework requirement.
6. A minimum grade of 'C' in each course taken in the program. Courses must be taken in at least three different departments.
7. Prerequisites that may be required for courses in the program will not be included as courses within the 18-semester hour coursework requirement.

## Latin American and Caribbean Studies Certificate Program

Director: Mark B. Rosenberg (*Political Science*)

Assistant Director: Lowell Gudmundson (*History*)

Advisory Council: John Jensen (*Modern Languages*), William Leffland (*International Affairs Center*), Barry Levine (*Sociology/Anthropology*), Anthony Maingot (*Sociology/Anthropology*), James Mau (*Sociology/Anthropology*), Jorge Salazar (*Economics*), Mark Suchman (*History*), William Vickers (*Sociology/Anthropology*), Maida Watson (*Modern Languages*), Ewart Archer (*International Relations*), Marian Goslinga (*Library*).

LOCATION: Tamiami Campus

Latin American and Caribbean Studies represents one way in which the University fulfills its commitment to furthering international understanding. The program in Latin American and Caribbean Studies encourages students to take an interdisciplinary approach to this important area by awarding a Certificate to both degree and non-degree students who successfully complete the Certificate requirements (see below). For students pursuing a bachelor's degree, the Certificate Program should be understood as a complement to the student's regular major area or discipline of study. For non-degree students, the Certificate represents the way in which a fuller, more complete understanding of Latin America and the Caribbean can be gained without pursuing a full course of study at the university.

Students who are interested in the Certificate Program should consult directly with either the Director or the Assistant Director of the Latin American and Caribbean Center, which administers the program.

In addition to its Certificate administration responsibilities, the Latin American and Caribbean Center, in consortium with the Center for Latin American Studies of the University of Florida, is one of twelve federally recognized and supported Latin American and Caribbean Area Studies Centers in the United States. The Center sponsors and coordinates a wide range of activities to promote both student and commu-

nity awareness and study of the Americas, including lectures and seminars on such varied topics as the historical and ideological aspects of Caribbean society, the role of the opposition in Latin America, Peronism, human rights, migration, and U.S. foreign policy in the Americas.

The Latin American and Caribbean Center also promotes and supports faculty research on Latin America and the Caribbean. During the past two years, area studies faculty have conducted research in Argentina, Barbados, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, Honduras, Guatemala, Jamaica, Mexico, Peru, Trinidad, and Venezuela with Center funding.

An important component of the Latin American and Caribbean Studies Program is the Library. During the past five years, the Latin American and Caribbean acquisitions program has concentrated on establishing a sound resource base for undergraduate research and study. Holdings on the region range from primary and secondary source materials to maps, slides and films, and periodicals.

The Center publishes a newsletter (available upon request) which describes on-going seminars, lectures and courses offered in conjunction with the Certificate Program. Occasional Papers and Occasional Paper dialogues are periodically published and are also available on request.

### Certificate Requirements: (Total of 18 semester hours)

1. A minimum of nine semester hours with a grade of "C" or better in courses certified by the Program.
2. 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 18 semester hour requirement.
3. A requirement of three semester hours of independent study under faculty supervision during which a research paper will be written.
4. Courses must be taken from at least three different departments.
5. After fulfilling all requirements, students will participate in a colloquium with the faculty to discuss their research.

The following courses fulfill Certificate requirements. These courses should be understood as a partial list; students should consult with the Director of the Certificate Program about current course offerings.

### ANTHROPOLOGY

- |          |                                     |
|----------|-------------------------------------|
| ANT 3144 | Prehistory of the Americas          |
| ANT 3251 | Peasant Society                     |
| ANT 3435 | The Individual in Anthropology      |
| ANT 4324 | Many Mexicos                        |
| ANT 4328 | Maya Civilization                   |
| ANT 4332 | Latin America                       |
| ANT 4334 | Comparative Latin American Cultures |
| ANT 4340 | Cultures of the Caribbean           |
| ANT 4343 | Cuban Culture and the Revolution    |

### 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

- |          |                                                     |
|----------|-----------------------------------------------------|
| 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 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                          |
| ECO 4733 | Multinational Corporation                           |

### EDUCATION

- |          |                                                                  |
|----------|------------------------------------------------------------------|
| EDF 5710 | National Education Systems: A Comparative Analysis               |
| EDF 5720 | Latin American Education: A Historical and Contemporary Overview |
| EDF 5780 | Intercultural Education: National and International Perspectives |

### HISTORY

- |          |                                   |
|----------|-----------------------------------|
| LAH 3410 | Mexico and the Caribbean          |
| LAH 3482 | Cuba from Bourbons to Castro      |
| LAH 4132 | The Formation of Latin America    |
| LAH 4133 | Spain in America                  |
| LAH 4201 | Latin America: The 19th Century   |
| LAH 4300 | 20th Century Latin America        |
| LAH 4474 | Topics in Caribbean History       |
| LAH 4511 | Order and Revolution in Argentina |
| LAH 4932 | Topics in Latin American History  |
| EDF 4521 | Topics in Latin American History  |
| HIS 4306 | Topics in Latin American History  |

### INTERNATIONAL BUSINESS

- |          |                                                    |
|----------|----------------------------------------------------|
| MAN 3602 | International Business                             |
| MAN 4600 | International Management                           |
| MAN 4610 | International and Comparative Industrial Relations |



**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**

- FRE 3500 Civilization I (Latin American course)
- SPN 3500 Civilization I (Latin American course)
- FRE 4501 Civilization II (Latin American course)
- SPN 4501 Civilization II (Latin American course)
- FRW 3520 Prose and Society (Latin American course)
- SPW 3520 Prose and Society (Latin American course)
- FRW 3580 Intellectual History (Latin American course)
- SPW 3580 Intellectual History (Latin American course)
- POW 4390 Special Topics (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

**PSYCHOLOGY**

- SOP 4004 Social Psychology in Latin America

**SOCIOLOGY**

- SOC 4332 Latin American and Caribbean Social Structures
- SOC 4490 Area Studies (Latin American and/or Caribbean)
- SOC 4613 Third World Theory
- SOC 4746 Social Conflict in Multi-Ethnic Societies

**Linguistic Studies Certificate Program**

Director: Lynn Berk (*English*)

Coordinating Committee: Virginia Gathercole (*English*), John Jensen (*Modern Languages*), David Jueda (*Modern Languages*), Reinaldo Sanchez (*Modern Languages*), George Kovacs (*Philosophy*), John Stacek (*Education-TESOL*), Paul Foss (*Psychology*).

LOCATION: Tamiarn Campus.

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:

1. The successful completion of at least six courses in linguistics or linguistics-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 a Certificate advisor in selecting courses.
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 from the University must be met, or the student must possess a bachelor's degree from another institution.

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**

FOL — Foreign Languages; FRE — French; LIN — Linguistics; MHF — Mathematics, History & Foundations; PHI — Philosophy; SPN — Spanish; POR — Portuguese.

**Required Courses:**

1. LIN 3010 or LIN 3013 Introduction to General Linguistics (taught by Modern Languages and English) or SPN 3733 — General Linguistics (taught in Spanish) or FRE 3700 — General Linguistics (taught in French)
2. LIN 4341 — Modern English Grammar or FRE 4800 — Contrastive Morphology or SPN 4800 — Contrastive Morphology or SPN 4802 — Contrastive Syntax
3. Four (4) of the following courses:
  - LIN 4421 — Black English
  - LIN 4403 — Applied Linguistics (English)
  - LIN 4341 — Modern English Grammar
  - LIN 4136 or 5146 — Historical Linguistics
  - LIN 5107 — History of the English Language
  - LIN 5342 — Advanced Syntax
  - LIN 4221 or 5222 — General Phonology
  - LIN 4330 or 5331 — General Morphology and Syntax
  - LIN 5405 — Contrastive Analysis
  - LIN 4801 or 5805 — Semantics
  - LIN 5602 — Language Contact
  - FOL 3732 or 5735 — Romance Linguistics
  - FRE 3705 — Applied Linguistics (in French)
  - FRE 3780 — French Phonetics
  - FRE 3820 — Dialectology (in French)
  - FRE 3840 — History of the French Language
  - FRE 4791 — Contrastive Phonology (French/English)
  - FRE 4800 — Contrastive Morphology (French/English)
  - FRE 4562 or 5565 — Studies in Bilingualism (French/English)
  - FRE 5730 — Special Topics in French Linguistics
  - LIN 3200 or LIN 5206 — Phonetics
  - LIN 3400 — Applied Linguistics (Modern Languages)
  - LIN 3610 — Dialectology
  - LIN 4226 — Contrastive Phonology
  - LIN 4333 — Contrastive Morphology
  - LIN 4418 — Problems in Language Learning
  - LIN 5600 — Intro to Sociolinguistics
  - LIN 4620 or 5625 — Studies in Bilingualism
  - LIN 5435 — Research Methods in Linguistics
  - LIN 5934 — Special Topics in Linguistics
  - POR 3930 — Special Topics in Portuguese Language/Linguistics
  - SPN 3705 — Applied Linguistics (in Spanish)
  - SPN 3780 — Spanish Phonetics
  - SPN 3820 — Dialectology (in Spanish)
  - SPN 3840 — History of the Spanish Language
  - SPN 4562 or 5565 — Studies in Bilingualism (Spanish/English)
  - SPN 4790 — Contrastive Phonology (Spanish/English)
  - SPN 4800 — Contrastive Morphology (Spanish/English)
  - SPN 4802 — Contrastive Syntax
  - SPN 4822 — Hispanic-American Sociolinguistics
  - SPN 4828 — Dialectology of the Spanish Caribbean
  - SPN 5930 — Special Topics in Spanish Linguistics
  - LIN 4701 — Psychology of Language
  - LIN 4710 or LIN 5711 — Language Acquisition
  - PHI 4221 — Philosophy of Language
  - PHI 4222 — Philosophy of Dialogue
  - MHF 4302 — Mathematical Logic

## Marine Science Certificate Program

Director: W. M. Goldberg (*Biological Sciences*)  
 Coordinating Committee: J. Makemson (*Biological Sciences*) P. McLaughlin (*Biological Sciences*) F. Maurrasse (*Physical Sciences*) J. Sheldon (*Physical Sciences*) A. Thorhaug (*Biological Sciences*) M. Tracey (*Biological Sciences*)

LOCATION: Tamiami Campus.

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:

Two semesters of inorganic chemistry with laboratory; two semesters of biological sciences with laboratory.

#### UPPER DIVISION PROGRAM:\*

##### Required Courses:

	Semester Hours
OCB 4010 Biological Oceanography	3
OCB 4674L Techniques in Biological Oceanography	1
GLY 4730 Marine Geology	3
GLY 4730L Marine Geology Lab	1
OCE 3014 Physical Oceanography	3
OCC 3002 Chemical Oceanography	3
OCC 3002L Chemical Oceanography Lab	1
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#### Plus one of the Following Electives:

MCB 5735+L Marine Microbiology	3 + 1
GLY 5793 Caribbean Shallow-Marine Environments	3
ZOO 3253+L Marine Invertebrate Zoology	3 + 1
OCB 5635+L Coral Reef Ecology	3 + 1
ZOO 5625+L Biology of Crustaceans	3 + 1

\*All required courses require a grade of "C" or better.

## Tropical Commercial Botany Professional Certificate Program

Director: David W. Lee (*Biological Sciences*)  
 Coordinating Committee: George Dalrymple (*Biological Sciences*), Jennifer Richards (*Biological Sciences*), Martin Tracey (*Biological Sciences*).

LOCATION: Tamiami Campus.

This Certificate Program provides background in the plant sciences, principally for those with practical experience in horticulture. The curriculum is designed to give solid information on the plants being grown: their anatomy and morphology, reproduction, taxonomy, development and physiology. This background should prepare students for work in the more technical aspects of horticulture in South Florida. Those fulfilling its requirements, along with a B.S. degree in Biological Sciences or Environmental Studies, would have excellent preparation for post-graduate work in Botany or Horticulture.

### Definition of Prefixes:

ACC — Accounting; ARC — Architecture; BOT — Botany; ENY — Entomology; EVR — Environmental Studies; LAA — Landscape Architecture; ORH — Ornamental Horticulture; PCB — Process Cell Biology — PLP — Plant Pathology.

### Certificate requirements:

#### LOWER OR UPPER DIVISION

#### PREPARATION:

Two semesters of college-level chemistry Mathematics through College Algebra (such as MAC 3132)

Practical Horticultural Experience (BSC 3949 Cooperative Education in Biology, 4 var. credit)

#### UPPER DIVISION PROGRAM

##### Required Courses\*

	Semester Hours
BOT 3353C Morphology of Tropical Plants	4
BOT 4504 Plant Physiology	3
BOT 4504L Plant Physiology Laboratory	1
BOT 3723C Taxonomy of Tropical Plants	4
ORH 4411C Applied Horticultural Physiology	4
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#### Electives (two of the below)

BOT 3663C Tropical Botany	4
BOT 4314C Plant Development	4
PCB 3043 Fundamentals of Ecology	3
PCB 3243L Fundamentals of Ecology Lab	1
EVR 3010 Energy Flow in Natural and Man-Made Systems	3
PLP 4001C Plant Pathology	4
ENY 3004 General Entomology	3
ENY 3004L General Entomology Lab	1
ACC 3300 Accounting for Decisions	3
ARC 3127C Graphic Communication	3

\*All required courses require a grade of "C" or better.

## Women's Studies Certificate Program

Director: Joyce Shaw Peterson, (*History*)  
 Marilyn Hoder-Salmon, Women's Studies Center, Director

Coordinating Committee: Mary Volcansek, (*Political Science*), Nancy Blaney, (*Psychology*), Steve Fjellman, (*Sociology / Anthropology*), Ann Marie Rizzo, (*Public Administration, Public Affairs*), Sybil DeGroot, (*Industrial Systems, Technology*).

LOCATION: Both Campuses.

The Women's Studies Certificate Program provides an opportunity for students to integrate scholarship about women from a variety of disciplines into a coherent program of study. The Certificate program includes a core of required courses central to an understanding of women in a social and historical context. The core courses provide a basic grounding in Women's Studies that should be useful in many other courses. The core courses are supplemented by a variety of electives to be chosen according to the particular student's specific interests. The Certificate program seeks to provide a balance to the traditional academic curriculum and also offers pragmatic vocational learning.

A student may acquire the Certificate in Women's Studies by fulfilling the following requirements:

#### Required Core Courses:

AMH 3560 History of Women in the United States
SOP 3742 Psychology of Women
PUP 4323 Politics of Contemporary Women's Issues

#### Three electives, such as from the following partial list:

WOH 3280 History of Women
ANT 3302 Male and Female: Sex Roles and Sexuality
LIT 3411 Women and Literature
CJC 4663 Women, Crime and the Criminal Justice System
SOW 4621 Crises in the Lives of Women
PAD 5435 Administrator and the Role of Women,
OR
ETI 4691 Women in Industry

In any particular semester, appropriate special topics courses may be taken as electives with approval.

Students should contact the Certificate Director or the Women's Studies Center Director, 554-2408, PC 114, for further information.



## College of Arts and Sciences

Dean	James A. Mau
Associate Dean, Budget and Development	Arthur W. Herriott
Associate Dean, Curriculum and Advisement	Marcelle Welch
Associate Dean, Bay Vista	Charles Elkins
Chairpersons:	
Biological Sciences	Martin Tracey
Economics	Jorge Salazar-Carrillo
English	Donald Watson
Environmental Studies	George Dalrymple
History	Howard Kaminsky
Humanities	Charles Elkins
International Relations	Ralph Clem
International Studies	Farrokh Jhabvala
Liberal Studies	Janet Parker
Mathematical Sciences	Toby Berk
Modern Languages	Reinaldo Sanchez
Performing Arts	Philip Fink
Philosophy and Religion	James Huchingson
Physical Sciences	Leonard Keller
Political Science	John Stack, Jr.
Psychology	Jacob Gewirtz
Sociology and Anthropology	William Vickers
Visual Arts	Frank Wyroba

## Faculty

Agaze, Benjamin, Ph.D. (University of South Florida), Assistant Professor, Psychology

Ambrosino, Carlo, Dott. Chem. (University of Torino), Research Scientist, Biological Sciences

Andreoli, Dorothy, Ph.D. (University of California, San Diego), Assistant Professor, Mathematical Sciences

Andreoli, Michael, M.A. (University of California, Berkeley), Visiting Instructor, Mathematical Sciences

Antrim, Harry, Ph.D. (University of Florida), Professor, English

Archer, Ewart, Ph.D. (University of Texas at Austin), Assistant Professor, International Relations

Arnold, St. George Tucker, Jr., Ph.D. (Stanford University), Associate Professor, English

Augenblick, John, D.M.A. (University of Miami), Assistant Professor, Performing Arts

Barton, David, Ph.D. (University of Cambridge, United Kingdom), Associate Professor, Mathematical Sciences

Beer, Michelle, Ph.D. (University of Pittsburgh), Associate Professor, Philosophy and Religion

Berk, Lynn, Ph.D. (Purdue University), Associate Professor, English

Berk, Toby, Ph.D. (Purdue University), Associate Professor, Mathematical Sciences

Blaney, Nancy, Ph.D. (University of Texas), Assistant Professor, Psychology

Blum, Milton, Ph.D. (New York University), Professor, Psychology

Bone, Richard, Ph.D. (University of West Indies, Jamaica), Assistant Professor, Physical Sciences

Boodhoo, Ken, Ph.D. (University of the West Indies, Jamaica), Associate Professor, International Relations

Brain, Carlos, Ph.D. (West Virginia University), Assistant Professor, Mathematical Sciences

Breslin, Thomas A., Ph.D. (University of Virginia), Director, Sponsored Research, Associate Professor, International Relations

Brown, Jerry, Ph.D. (Cornell University), Associate Professor, Sociology and Anthropology

Buckley, Ralph, M.F.A. (Maryland Institute), Assistant Professor, Visual Arts

Burke, William, M.F.A. (State University of New York at New Paltz), Associate Professor, Visual Arts

Carvajal, Manuel, Ph.D. (University of Florida), Associate Professor, Economics

Casnes, Gisela, M.A. (University of Florida), Assistant Professor, English

Chen, Chun-Fan, Ph.D. (University of Michigan), Associate Professor, Biological Sciences

Chung, Bongkil, Ph.D. (Michigan State University), Assistant Professor, Philosophy and Religion

Church, Philip, M.F.A. (University of California at Irvine), Assistant Professor, Performing Arts

Clem, Ralph, Ph.D. (Columbia University), Chairperson and Professor, International Relations

Cohen, Gerald, Ph.D. (University of Chicago), Assistant Professor, Mathematical Sciences

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

Cruz, Robert, B.A. (Georgetown University), Instructor, Economics

Cuervo, Leon, Ph.D. (University of Maryland), Associate Professor, Biological Sciences

Dalrymple, George, Ph.D. (University of Toronto), Director of Environmental Studies and Associate Professor, Biological Sciences

Daruwala, Maneck, Ph.D. (University of Rochester), Assistant Professor, English

de Alonzo, Irma, Ph.D. (University of York, England), Associate Professor, Economics

Detwiler, Bruce, J.D., Ph.D. (Cornell University), Assistant Professor, Political Sciences

Dooley, Robert, Ph.D., (The University of South Carolina), Assistant Professor, Physical Sciences

Draper, Grenville, Ph.D. (University of the West Indies), Assistant Professor, Physical Sciences

Duncan, Richard, M.F.A. (Southern Illinois University), Associate Professor, Visual Arts

Dunn, Marvin, Ph.D. (University of Tennessee), Associate Professor, Psychology

Dwyer, Richard, Ph.D. (University of California at Los Angeles), Professor, English

Elkins, Charles, Ph.D. (Southern Illinois University), Associate Dean, Bay Vista Campus and Associate Professor, English

Elkins, Mary Jane, Ph.D. (Southern Illinois University), Assistant Professor, English

Endel, Peggy, Ph.D. (Cornell University), Assistant Professor, English

Erber, Joan, Ph.D. (St. Louis University), Associate Professor, Psychology

Erwin, Nancy, M.A. (University of Florida), Instructor, International Relations

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

Fisher, Robert, Ph.D. (University of Kansas), Professor, Mathematical Sciences

Fisher, Ronald, Ph.D. (St. Louis University), Assistant Professor, Psychology

Fjellman, Stephen, Ph.D. (Stanford University), Associate Professor, Sociology and Anthropology

Flanders, James, Ph.D. (Vanderbilt University), Associate Professor, Psychology

Flexner, Arthur, Ph.D. (Stanford University), Assistant Professor, Psychology

Foos, Paul, Ph.D. (Bowling Green State University), Associate Professor, Psychology

Fox, Tillie, M.S. (University of Miami), Instructor, Mathematical Sciences

Free, Mary, Ph.D., (University of Georgia), Assistant Professor, English

Gathercole, Virginia, Ph.D. (University of Kansas), Assistant Professor, English

Ghai, Gauri, Ph.D. (Iowa State University), Associate Professor, Mathematical Sciences

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

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

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

Gonzalez-Reigosa, Fernando, Ph.D. (Florida State University), Associate Professor, Psychology

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

- Gorman, Susan, Ph.D. (*University of Maryland*), Instructor, *Mathematical Sciences*
- Gotterer, Malcolm, D.B.A. (*Harvard University*), Special Assistant to the Vice President of Academic Affairs for Academic Computing and Professor, *Mathematical Sciences*
- Gottlieb, Joel, Ph.D. (*University of California at Riverside*), Associate Professor, *Political Science*
- Gudmundson, Lowell, Ph.D. (*University of Minnesota*), Assistant Director, *Latin American and Caribbean Center*, and Visiting Lecturer, *History*
- Guers-Villate, Yvonne, Ph.D. (*Bryn Mawr College*), Professor, *Modern Languages*
- Hall, James, Ph.D. (*University of Utah*), Associate Professor, *English*
- Hann, Robert, Ph.D. (*Temple University*), Assistant Professor, *Philosophy and Religion*
- Hardy, Kenneth, Ph.D. (*Tulane University*), Associate Professor, *Physical Sciences*
- Hauptli, Bruce, Ph.D. (*Washington University*), Associate Professor, *Philosophy and Religion*
- Henley, Carol, M.S. (*University of Miami*), Instructor, *Mathematical Sciences*
- Henley, Kenneth, Ph.D. (*University of Virginia*), Associate Professor, *Philosophy and Religion*
- Herriott, Arthur, Ph.D. (*University of Florida*), Associate Dean, *College of Arts and Sciences* and Professor, *Physical Sciences*
- Howell, Ina Parks, Ph.D. (*University of South Florida*), Assistant Professor, *Mathematical Sciences*
- Huchingson, James, Ph.D. (*Emory University*), Chairperson and Associate Professor, *Philosophy and Religion*
- Jacobs, Ellen, M.S. (*Illinois Institute of Technology*), Associate Professor, *Visual Arts*
- Jensen, John, Ph.D. (*Harvard University*), Chairperson and Associate Professor, *Modern Languages*
- Jeuda, David, A.B.D. (*Northwestern University*), Instructor, *Modern Languages*
- Jhabvala, Farrokh, Ph.D. (*Fletcher School of Law and Diplomacy*), Director of *International Studies* and Associate Professor, *International Relations*
- Johnson, Kenneth, Ph.D. (*University of Rochester*), Assistant Professor, *English*
- Johnson, Paulette, Ph.D. (*Kansas State University*), Assistant Professor, *Mathematical Sciences*
- Jorge, Antonio, Ph.D. (*Villanova University*), Professor, *International Relations, Political Science and Sociology/Anthropology*
- Kaminsky, Howard, Ph.D. (*University of Chicago*), Chairperson and Professor, *History*
- Keller, Leonard, Ph.D. (*Yale University*), Chairperson and Associate Professor, *Physical Sciences*
- Kovacs, George, Ph.D. (*University of Louvain*), Professor, *Philosophy and Religion*
- Kraynek, William, Ph.D. (*Carnegie-Mellon University*), Associate Professor, *Mathematical Sciences*
- Krikeles, Basil, Ph.D. (*University of Rochester*), Assistant Professor, *Mathematical Sciences*
- Kurtines, William, Ph.D. (*Johns Hopkins University*), Associate Professor, *Psychology*
- Landrum, John, Ph.D. (*University of Southern California at Los Angeles*), Assistant Professor, *Physical Sciences*
- Leckband, Mark, Ph.D. (*Purdue University*), Assistant Professor, *Mathematical Sciences*
- Lee, David, Ph.D. (*Rutgers University*), Associate Professor, *Biological Sciences*
- Leed, Eric, Ph.D. (*University of Rochester*), Associate Professor, *History*
- Leeds, Marie, M.A. (*University of Miami*), Assistant Professor, *Performing Arts*
- Levine, Barry, Ph.D. (*New School for Social Research*), Professor, *Sociology and Anthropology*
- Levitt, Mary, Ph.D. (*Syracuse University*), Assistant Professor, *Psychology*
- Liebling, Herman, Ph.D. (*American University*), Visiting Professor, *Economics*
- Liosatos, Panagis, Ph.D. (*University of Pennsylvania*), Associate Professor, *Economics*
- Lilie, Joyce R., Ph.D. (*John Hopkins University*), Associate Professor, *Political Science*
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- Mackey, Wesley, Ph.D. (*University of Manitoba*), Assistant Professor, *Mathematical Sciences*
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- Marcus, Jeffrey, Ph.D. (*University of Lancaster*), Assistant Research Scientist, *Biological Sciences*
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- Mazer, Paul, M.F.A. (*Pennsylvania State University*), Associate Professor, *Performing Arts*
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- Mintz, Stephan, Ph.D. (*John Hopkins University*), Associate Professor, *Physical Sciences*
- Moncarz, Raul, Ph.D. (*Florida State University*), Professor, *Economics*
- Moore, Howard, Ph.D. (*University of Arkansas*), Professor, *Physical Sciences*
- Morgan, Dahlia, Diplomate of College Teaching (*University of Florida*), Director of *Art Gallery and Lecturer, Visual Arts*
- Moran, Gary, Ph.D. (*Katholieke University, Nijmegen, Netherlands*), Professor, *Psychology*
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- Peterson, Brian, Ph.D. (*University of Wisconsin*), Associate Professor, *History*
- Peterson, Joyce, Ph.D. (*University of Wisconsin*), Assistant Professor, *History*
- Pinto, Carmela A., Ph.D. (*Michigan State University*), Assistant Professor, *English*



- Pyron, Darden, Ph.D. (*University of Virginia*), Associate Professor, History
- Quirke, James, Ph.D. (*University of Liverpool*), Assistant Professor, Physical Sciences
- Richards, Jennifer, Ph.D. (*University of California, Berkeley*), Assistant Professor, Biological Sciences
- Ritter, David, Ph.D. (*Louisiana State University*), Assistant Professor, Mathematical Sciences
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- Rock, Howard, Ph.D. (*New York University*), Associate Professor, History
- Rohm, Joseph, Ph.D. (*Florida State University*), Associate Professor, Performing Arts
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- Rotton, James, Ph.D. (*Purdue University*), Associate Professor, Psychology
- Roy, Dev, Ph.D. (*University of Rochester*), Assistant Professor, Mathematical Sciences
- Rubenberg, Cheryl, Ph.D. (*University of Miami*), Assistant Professor, Political Science
- Rubin, Richard, Ph.D. (*Washington University*), Associate Professor, Mathematical Sciences
- Salazar-Carrillo, Jorge, Ph.D. (*University of California at Berkeley*), Chairperson and Professor, Economics
- Sanchez, Reinaldo, Ph.D. (*Washington University*), Associate Professor, Modern Languages
- Saper, Bernard, Ph.D. (*University of California at Los Angeles*), Professor, Psychology
- Sauleda, Orlando, M.S. (*Florida International University*), Instructor, Mathematical Sciences
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- Stack, John, Jr., Ph.D. (*University of Denver*), Chairperson and Associate Professor, Political Sciences
- Stayman, Andree, M.A. (*University of Miami*), Instructor, Modern Languages
- Stein, Abraham, Ph.D. (*University of Southern California*), Professor, Biological Sciences
- Stepick, Alex, Ph.D. (*University of California at Irvine*), Assistant Professor, Sociology and Anthropology
- Sugg, Richard, Ph.D. (*University of Florida*), Associate Professor, English
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- Thomas, Babatunde, Ph.D. (*Indiana University*), Associate Professor, Economics
- Thorhaug, Anitra, Ph.D. (*University of Miami*), Research Assistant, Biological Sciences
- Todd, Therald, Ph.D. (*University of Oregon*), Associate Professor, Performing Arts
- Tracey, Martin, Ph.D. (*Brown University*), Chairperson and Associate Professor, Biological Sciences
- Vagramian-Nishanian, Violet, Ph.D. (*University of Miami*), Associate Professor, Performing Arts
- Vickers, William, Ph.D. (*University of Florida*), Chairperson and Associate Professor, Sociology and Anthropology
- Volcansek, Mary, Ph.D. (*Texas Tech University*), Associate Professor, Political Science
- Warren, Christopher, D.A. (*Lehigh University*), Assistant Professor, Political Science
- Washington, J. Charles, D.A. (*Catholic University*), Director of English Language Skills Center and Lecturer, English
- Watson, Donald, Ph.D. (*University of Virginia*), Chairperson and Associate Professor, English
- Watson-Espener, Maida, Ph.D. (*University of Florida*), Associate Professor, Modern Languages
- Waugh, Butler, Ph.D. (*Indiana University*), Professor, English
- Welch, Marcelle, Ph.D. (*University of Michigan*), Associate Dean, College of Arts and Sciences and Assistant Professor, Modern Languages
- Whidden, Matrid, M.Ed. (*Florida Technological University*), Instructor, Mathematical Sciences
- Wilkins, Mira, Ph.D. (*Cambridge University*), Professor, Economics
- Williams, Willie, Ph.D. (*Michigan State University*), Associate Professor, Mathematical Sciences
- Wyroba, Francis, M.A. (*Columbia University*), Chairperson and Professor, Visual Arts
- Yamaguchi, Ryuji, Ph.D. (*McGill University*), Assistant Professor, Mathematical Sciences
- Yudin, Florence, Ph.D. (*University of Illinois*), Professor, Modern Languages
- Zweig, David, M.A. (*York University, Canada*), Instructor, Political Sciences





# College of Business Administration

# College of Business Administration

The College of Business Administration offers academic programs leading to the undergraduate degree of *Bachelor of Business Administration* and the graduate degrees of *Master of Accounting*, *Master of Business Administration*, *Master of International Business*, *Master of Science in Management*, and *Master of Science in Taxation*.

The College is organized into the School of Accounting and Departments of Decision Sciences, Finance and International Business, Management, and Marketing. Complete undergraduate and graduate level programs are offered at the Tamiami Campus, while undergraduate majors in management and marketing and a highly structured MBA program are offered at the Bay Vista Campus. At the Tamiami Campus there is a central undergraduate advising unit (DM 361) and a Graduate Coordinator (DM 362B). Advisors also are available at the Bay Vista Campus.

## General Information

Every student must have a program of study completed by the end of his or her first semester. Entering students should promptly make a program counseling appointment by calling (305) 554-2781 at the Tamiami Campus or (305) 940-5870 at the Bay Vista Campus. At the time of the appointment the appropriate counselor will assist the student in completing a formal program of study. (A completed program of study is one that has been filled out and signed by the student, the counselor, and the appropriate Department Chairperson.) Questions of interpretation regarding course or degree requirements will be resolved at the time the program of study is developed. If, for some reason, a program of study is not completed at least two semesters before a student is expected to graduate, the student may not be permitted to register for future classes.

Additionally, students who register for any graduate business course must be formally admitted to a graduate degree program at the University or receive approval from a graduate program counselor.

## Academic Standards

1. CBA undergraduates must earn a grade of "C" or better in all courses within their major(s).
2. CBA undergraduates will be required to pass a Readiness Examination in the areas of English, statistics, and accounting. Students must pass the Readiness Examination in the areas noted as a prerequisite for registration in any core or major course.
3. Undergraduate and graduate students may not enroll more than twice in any CBA course without the written permission of the Dean. This permission will be granted only in those exceptional cases where

failure to complete a course successfully is demonstrated to be unrelated to classroom performance.

4. All CBA students must satisfy the requirements of their respective programs of study and, additionally, must satisfy all University requirements for graduation.
5. See University General Information regarding Academic Warning, Probation, and Dismissal.

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

## Undergraduate Study

An undergraduate student is required to have completed the *Associate of Arts* degree or its equivalent, and is encouraged to have some knowledge of accounting, mathematics, computer programming, and economics (accounting majors should also have coursework in the area of calculus and logic). 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 the College. This professional work includes:

- 1) Pre-core courses where necessary;
- 2) Certain required courses designed to provide the student with a common body of knowledge, including:
  - a. a background of concepts and processes in the marketing, production, and financing of goods and services in the business enterprise and related organizations;
  - b. a background of the economic and legal environment as it pertains to profit and non-profit organizations along with ethical, social, and political influences;
  - c. a basic understanding of concepts and applications in accounting, quantitative methods, computers, and management information systems;
  - d. a study of communication theory, behavior, and interpersonal communications;
  - e. a study of administrative processes and decision-making under conditions of uncertainty, including policy analysis at the overall management level;
- 3) Courses required for the student's major;
- 4) Approved elective courses.

The student entering an undergraduate program of the College is required to meet the following four standards:

- 1) 60 semester hours completed.
- 2) grade point average of 2.0 or above.
- 3) satisfaction of general University requirements for admission, including, in this case, the general education requirements. The general education requirements are: English composition (12) semester hours,

humanities (6) semester hours, social science (6) semester hours, natural science (6) semester hours, mathematics (6) semester hours.

If a student has above a 2.0 GPA, he or she may be deficient in three semester hours of general education credits and still be accepted into this program. All lower division deficiencies must be completed during the student's first two semesters at the University.

## Upper Division Transfer

Previous credit may be considered acceptable for transfer toward upper level academic study in the College if the credit was earned within the last six years, and was designated as junior-senior level credit at an accredited four year upper level institution, or can be validated by some acceptable measure to verify its equivalence. Students wishing to transfer to the College must be in good standing at their previous school or college.

## Credit-By-Examination

A student registered for a course in the College may, at the discretion of the instructor and Department Chairperson, and after presenting sufficient justification, seek 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 semester. A grade of EM will be noted on the course grade roll at the end of the semester if the student, in the judgment of the professor, has passed the special examination.

## Undergraduate Majors

Major programs leading to the Bachelor's degree are offered in Accounting, Finance (including International Business, Insurance, and Real Estate), Management (including Personnel Management and Information Systems), and Marketing (including Transportation).

## Course Selection

Generally, a junior level student should concentrate on the 30 to 36 semester 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 before enrolling.

## Change of Major

Any student changing to a new or revised major in the College must meet the requirements that exist at the time of the change.

## Residency Requirements

A student must complete his or her last 30 semester hours of course work at the University to qualify for the BBA degree.

## Degree Requirements

See University General Information.



## 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 60 semester hours of lower division coursework completed in order to enter any CBA upper division major: six semester hours of accounting; six semester hours of economics; three semester hours of college algebra; three semester hours of statistics; three semester hours of computer programming. If completed at the University, this coursework will normally be taken in *addition* to the 60 semester 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 requires 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 undergraduate counseling office.

### UPPER DIVISION PROGRAM:

#### *Semester Hours* *Pre-Core Courses Required for Business Administration Students:*

*ACC 3300	Accounting for Decisions	3
COP 3172	Basic Programming for Business	3
*ECO 3003	Economics, Man and Society-Micro	3
ECO 3011	Economics, Man and Society-Macro	3
*STA 3132	Quantitative Methods for Administration	3
		15

\*NOTE: STA 3132, ECO 3003, ECO 3011, and ACC 3300 will be waived if the student received a grade of 'C' or higher in the appropriate lower division courses. A student should see a counselor to determine whether these courses should or should not be added to the program of study. If a student has successfully completed comparable courses at the lower level, upper division credit will not be given for STA 3132, ECO 3003, ECO 3011, and ACC 3300.

#### *Core Courses Required for Business Administration Students:*

<i>Semester Hours:</i>		
FIN 3403	Financial Management	3
MAN 3010	Organization and Management	3
MAR 3023	Marketing Management	3

**CIS 3000	Introduction to Information Systems	3
**ACC 3303	Accounting for Planning and Control	3
ECO 3432	Applied Macroeconomics	3
QMB 3150	Applications of Quantitative Methods in Business	3
MAN 3503	Managerial Decision Making	3
MAN 4521	Operations Management	3
MAN 3701	Business and Society	3
MAN 3602	International Business	3
MAN 4722	Policy Analysis	3
		33-36

\*\*This course should *not* be taken by students majoring in accounting. (See model schedule for accounting majors).

<i>Major: Required Credits</i>	12-30
<i>Approved Elective Credits</i>	3-12

TOTAL (does not include deficiencies) 60-66

NOTE: All electives must be approved in advance by the Counseling Office.

## Business Core Courses

As noted under CBA General Information (Academic Standards), undergraduates must pass a Readiness Examination in the areas of English, Statistics, and Accounting as a prerequisite for registration in any core or major course. The core courses and prerequisites in the College are as follows:

FIN 3403 FINANCIAL MANAGEMENT — ACC 3300 or its equivalent.
MAN 3503 MANAGERIAL DECISION MAKING — College algebra, statistics, and QMB 3150 or its equivalent.
MAR 3023 MARKETING MANAGEMENT
QMB 3150 APPLICATION OF QUANTITATIVE METHODS IN BUSINESS — STA 3132, or its equivalent, and college algebra.
CIS 3000 INTRODUCTION TO INFORMATION SYSTEMS computer programming proficiency requirement (COC 1300 at Miami-Dade, COP 3172 at FIU).
ACC 3303 ACCOUNTING FOR PLANNING AND CONTROL — At least six semester hours of introductory financial and managerial accounting with a grade of "C" or better; or ACC 3300 with a grade of "C" or higher; and successful completion of a readiness examination.
MAN 4521 Operations Management — MAN 3503 and QMB 3150.
MAN 3010 ORGANIZATION AND MANAGEMENT
MAN 3701 BUSINESS AND SOCIETY — ECO 3003 and ECO 3011 or equivalent.
MAN 3602 INTERNATIONAL BUSINESS — ECO 3432.
ECO 3432 APPLIED MACROECONOMICS — ECO 3003 and ECO 3011 or equivalent.
MAN 4722 BUSINESS POLICY — Completion of all core course requirements. Course should be taken in student's last academic semester before graduation.

## Graduate Study

The Graduate Programs of the College offer the student advanced professional education for managerial careers in business and government. At the graduate level, the degrees of *Master of Accounting*, *Master of Business Administration*, *Master of International Business*, *Master of Science in Management*, in Finance, Management Information Systems, and Real Estate, and *Master of Science in Taxation* are offered.

The Master of Business Administration degree is designed to give the MBA student a general management education and to assist the student in preparing for his or her chosen career. More specialized preparation is available in the three Master of Science in Management (MSM), Master of Accounting, and Master of Science in Taxation programs.

## Admission Requirements

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

1. Satisfactorily meet the general University requirements for admission to graduate programs.
2. Hold a Bachelor's degree from a regionally accredited college or university.

3. Meet the minimum standards regarding entrance examination scores and upper division grades as determined by the faculty:

a) Admissions to the Master of Business Administration (MBA), Master of International Business (MIB), MSM — Finance, and MSM — 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:

$$(GPA \times 200) + (GMAT \text{ SCORE}) = 1000, \text{ with a minimum score of 500 on the GMAT.}$$

b) Admission to the Master of Accounting, and Master of Science in Taxation programs requires the applicant to meet the combined GMAT-GPA score of 1000 (with a 500 minimum on the GMAT) as given in (a) above. Additionally, however, each applicant must have an undergraduate major or its equivalent in accounting and must have earned a 3.0 GPA both in the accounting major or its equivalent and in all upper-division coursework.

c) Admission to the MSM — Management Information Systems program requires a combined score of at least 1000 points computed as follows:

$$(GPA \times 200) + (GMAT \text{ SCORE}) = 1000, \text{ WITH A MINIMUM OF 530 ON THE GMAT. A WAIVER OF 10 POINTS ON THE GMAT REQUIREMENT WILL BE ALLOWED FOR EACH YEAR OF RELEVANT DATA PROCESSING EXPERIENCE, UP TO A MAXIMUM OF 80 POINTS.}$$

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.

## 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 College must complete the following steps and meet the stipulated requirements:

1. Submit a Graduate Application for admission to the Admissions Office. Application Forms will be mailed upon request. The admission process may require as long as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution(s) to the Admissions Office. (Copies submitted directly by applicants are not accepted for application purposes).
3. Submit scores on the *Graduate Management Admissions Test (GMAT)*, administered nationally by the Educational Testing Service (Box 966, Princeton, New Jersey 08540). Registration forms will be mailed upon request.

## Degree Requirements

To be eligible for a Master's degree, a student must:

1. Satisfy all University requirements for a master's degree.
2. Meet the requirements of an approved program of study. This program of study is developed by the student and his or her graduate counselor and must be approved by the appropriate Department Chairperson.
3. (a) Complete a minimum of 36 semester hours (depending on program) of graduate level coursework, for the *Master of Science in Management* programs.  
(b) Complete a minimum 36 semester hours of graduate level coursework, for the *Master of Business Administration* or *Master of International Business*.  
(c) Complete a minimum of 30 semester hours of graduate level coursework for the *Master of Accounting* or the *Master of Science in Taxation* programs.
4. Earn a minimum average of "B" (3.0) or the equivalent in all approved courses in the student's program of study.
5. No more than three courses (9 semester hours) may be applied toward graduate degree requirements.

## Grades and Credits

No courses in which a grade below "C" is earned may be counted toward the M.Acc., MBA, MIB, MSM or MST degrees. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded "D" or "F", and any approved undergraduate courses taken while a graduate student.

## Transfer Credit

The student may receive permission to transfer up to a maximum of six semester 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 higher 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; (5) the credit(s) were not used toward another degree; and (6) the credit(s) were completed within six years immediately preceding the awarding of the degree. Credit is not transferable until the student has earned 15 semester hours in the College graduate program. Students wishing to transfer to the College must be in good standing at their previous school or college.

## 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 Accounting*, *Master of Business Administration*, and *Master of Science in Taxation* students will normally take all work at the 6000 level.

## Time Limit

All work applicable to the Master's degree, including transfer credit, must be completed within six years immediately preceding the awarding of the degree.

## Change of Major

The graduate student who wishes to change his or her program major must submit a Graduate Change of major request to the Admissions Office and meet the admission and program requirements in effect at the time of the change of major.

## School of Accounting

Rosalie C. Hallbauer, *Associate Professor and Director*

Kwabena Anyane-Ntow, *Assistant Professor*

Rolf Auster, *Professor*

William L. Campfield, *Visiting Professor*

Jack L. Carter, *Assistant Professor*

Lucia S. Chang, *Professor*

Manuel Dieguez, *Instructor*  
Hassan Espahbodi, *Assistant Professor*  
Reza Espahbodi, *Assistant Professor*  
Donald W. Fair, *Instructor and Assistant Dean*

Irving L. Fantl, *Professor*  
Harvey S. Hendrickson, *Professor*  
David Lavin, *Associate Professor*  
Myron S. Lubell, *Associate Professor*  
Kenneth S. Most, *Professor*  
Charles A. Nickerson, *Professor and Dean*  
Leandro S. Nunez, *Instructor*  
Robert B. Oliva, *Assistant Professor*  
Leonardo Rodriguez, *Associate Professor*  
Lois Slutsky, *Instructor*  
Theodor Sokolowski, *Instructor*  
Doria Yeaman, *Lecturer*

Graduates of the Bachelor's Degree program in accounting are being prepared for entry-level positions in public, private, or governmental accounting. In addition the accounting program provides students seeking advanced business or law degrees with an appropriate foundation for those studies.

The accounting program consists of two parts: The general business core (33 semester hours) and the concentration in accounting (33 semester hours). All courses in "concentration in accounting" must be taken at this institution, i.e., courses in accounting are not transferable unless approved in advance by the School of Accounting.

Accounting majors must complete MAC 3233 (Calculus) and PHI 3100 (Logic) as prerequisite courses or present acceptable coursework in the areas of calculus and logic at the lower division level.

## Florida CPA Requirement

Completion of a Bachelor of Business Administration degree program with emphasis in accounting, while available, will not be accepted by the Florida State Board of Accountancy as fulfilling requirements to sit for the Certified Public Accounting Examination after August 1, 1983.

The law relating to the practice of public accounting (Chapter 473, Florida Statutes 1979) provides in Rule 21A-27.02, Concentrations in Accounting and Business, that:

- (1) For purposes of section 473, F.S., if application for the Uniform CPA Examination is made prior to August 2, 1983, an applicant must have a baccalaureate degree from an accredited college or university with a major in accounting, or its equivalent, with a concentration in accounting and business subjects. A concentration in accounting and business is defined as an educational program that includes at least 18 semester hours or 27 quarter hours, or the equivalent, in accounting education above the elementary level and 27 semester or 40 quarter hours, or the equivalent, in general business education.
- (2) For purposes of Section 473, F.S., if application is made after August 1, 1983, an applicant must have at least a baccalaureate degree or its equivalent, from an accredited college or university with a major



in accounting, or its equivalent, plus at least 30 semester hours or 45 quarter hours, or the equivalent, in excess of those required for the baccalaureate degree including a total educational program with a concentration in accounting and business as follows:

- (a) 36 semester or 54 quarter hours in accounting education which shall include not less than: 9 semester or 14 quarter hours in financial accounting, including cost accounting, 6 semester or 9 quarter hours in auditing and 6 semester or 9 quarter hours in accounting taxation, and
- (b) 39 semester or 58 quarter hours in general business education.
- (3) For purposes of this rule, accounting hours (other than elementary) above the minimum requirement may be substituted for general business hours.

## Model Schedule— 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. Deviations from this schedule must be approved by the Director of the School of Accounting. (The student possessing a non-business baccalaureate degree should consult an academic counselor for alternative programs that meet the Florida State Board of Accountancy requirements).

<i>Semester 1</i>	<i>Semester 2</i>
ACC 3303	MAR 3023
FIN 3403	ACC 4102
QMB 3150	MAN 3503
ECO 3432	BUL 4111
MAN 3010	
<i>Semester 3</i>	<i>Semester 4</i>
ACC 4122	ACC 4501
ACC 4301	ACC 4601
BUL 4112	MAN 3602
MAN 3701	MAN 4521
<i>Semester 5</i>	
ACC 4522	
ACC 4201	
ACC 4731	
MAN 4722	

Note: Pre-core deficiencies must be completed in Semester 1 of the third year.

## Master of Accounting

The M.Acc. program is designed primarily to provide advanced learning in various areas of non-tax accounting and secondarily, to meet the Florida requirement to sit for the Certified Public Accountant Examination after August 1, 1983. Students with a Bachelor's degree in a field other than accounting will be required to complete the necessary courses in general business and undergraduate accounting and meet other requirements before applying for admission to the M.Acc. program.

Due to varied career opportunities, the M.Acc. program is divided into three subpro-

grams, and many variations are possible. The Managerial Accounting track 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 Financial Accounting track is designed for the student who aspires to be a Certified Public Accountant and leader in the public accounting profession. The International Accounting track 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.

A student who earns an M.Acc. and successfully completes the Certified Public Accounting Examination usually will qualify to receive a certificate as a Certified Public Accountant. An explanation of the relevant Florida Statute follows the program of study.

### M.Acc. PROGRAM OF STUDY

#### Required Courses: 18 semester hours

ACC 6291	Seminar in Accounting Theory I
ACC 6391	Seminar in Managerial Accounting I
ACC 6512	Income Tax Research
ACC 6651	Studies in Auditing
ACC 6807	Accounting Research and Reporting
ACC 6865	Governmental and Institutional Accounting
Additional Courses: three courses (9 semester hours) relating to concentration	
Elective: One course (3 semester hours) approved by the Graduate Advisor.	
ACC 6275 <sup>3</sup>	International Accounting
ACC 6582 <sup>3</sup>	International Taxation
ACC 6735 <sup>1,2</sup>	Seminar in Accounting Information Systems I
ACC 6745 <sup>3</sup>	Seminar in Accounting Information Systems II
ACC 6822 <sup>1,2</sup>	Behavioral Accounting
ACC 6832 <sup>1,2</sup>	Accounting and Quantitative Methods
ACC 6845 <sup>3</sup>	Seminar in Managerial Accounting II
ACC 6932 <sup>1</sup>	Seminar in Accounting Theory II

<sup>1</sup>Designed primarily for the Financial Accounting track

<sup>2</sup>Designed primarily for the Managerial Accounting track

<sup>3</sup>Designed primarily for the International Accounting track

### M.S.T. PROGRAM OF STUDY

#### Required Courses: 12 semester hours

ACC 6512	Income Tax Research
ACC 6531	Taxation of Corporations I
ACC 6553	Estate and Gift Taxation
ACC 6558	Current Developments in Taxation

Additional Courses: four courses (12 semester hours) in tax

Electives: two non-tax courses (6 semester hours), at least one must be in accounting, approved by the Graduate Advisor.

ACC 6515	Transactions in Property
ACC 6552	Taxation of Deferred Compensation
ACC 6554	Tax Accounting Theory and Procedures
ACC 6555	Taxation of Corporations II
ACC 6556	Partnership Taxation and Tax Shelters
ACC 6557	Fiduciary Accounting and Taxation
ACC 6559	Seminar in Taxation
ACC 6561	Estate Planning

## Florida CPA Requirement

Beginning with applications made after August 1, 1983, a student must complete an additional 30 semester hours of accounting and general business above those required for the baccalaureate degree in order to sit for the Certified Public Accountant Examination. (For the law relating to the practice of public accounting in which concentration in accounting and business is defined see Rule 21A-27.02 under Florida CPA Requirement).

For those applying to sit for the examination prior to August 1, 1983, Rule 21A-27.03 applies regarding substitution of an additional year of accounting courses in lieu of one year of employment in the office of a Florida or out-of-state practitioner before receiving a certificate as a Certified Public Accountant.

If application for examination is made prior to August 2, 1983 for purposes of Section 473, F.S., 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 postbaccalaureate accounting education, and at least 15 semester or 22 quarter hours in postbaccalaureate, general business education. For purposes of this rule, courses used to satisfy Rule 21A-27.02 may not be included in the additional one-year accounting course. However, advanced accounting hours above the minimum postbaccalaureate requirement may be substituted for advanced general business courses.

## Master of Science in Taxation

The M.S.T. program is designed primarily for those students aspiring to a career as a tax professional in public accounting, law, industry, education, or government. The requirements are designed to permit the student flexibility in meeting his or her professional interests. Students with a Bachelor's degree in a field other than accounting will be required to complete the necessary courses in general business and undergraduate accounting and meet other requirements before applying for admission to the M.S.T. program.

## Department of Decision Sciences

Steve H. Zanakis, *Professor & Chairperson*  
 Panos Afentakis, *Assistant Professor*  
 Elias M. Awad, *Professor*  
 Jack Belzer, *Visiting Lecturer*  
 Wesley D. Challacombe, *Instructor*  
 Larry Smith, *Associate Professor*  
 Rafael Solis, *Assistant Professor*  
 Efraim Turban, *Professor*

The Department of Decision Sciences offers coursework at the Bachelor's level in the areas of Management Science/Operations Research, Production/Operations Management, and Business Statistics. For students interested in specializing in these areas, a concentration is available within the Management major. This concentration, Operations and Management Science, requires 12 semester hours of courses listed as follows:

### Operations & Management Science Concentration

QMB 4680 Simulation of Management Systems and three other courses listed in the Decision Sciences Dept. and approved by the Department Chairperson. See below:

MAN 4523	Production Information Systems
MAN 5521	Advanced Production Management
QMB 4700	Principles of Operations Research I
QMB 4905	Independent Study in Decision Sciences
QMB 4930	Special Topics in Decision Sciences

NOTE: Elective courses outside the College of Business Administration should be taken in the Department of Economics or Mathematical Sciences. Exceptions may be permitted with the approval of the Department Chairperson.

The Decision Sciences Department offers at the graduate level the Master of Science in Management-Management Information Systems.

## MSM Management Information Systems

The MSM-Management Information Systems program is designed to prepare students for positions of advanced responsibility in the analysis, design, implementation, and overall management of information systems that use computers. The program is applications-oriented with a major focus on the theoretical bases of business programming languages, systems analysis and design, and data structure and design for business and systems management. Further, the program is specifically oriented to students who have an undergraduate degree that includes sufficient preparation in business administration and/or information systems to permit advanced study in this area.

The program involves 36 credit hours of professional work consisting of 12 courses. Students completing three courses per semester may expect to finish the program in two years. Coursework may be grouped into four general areas:

### Group A: ANALYSIS OF ORGANIZATIONAL SYSTEMS

MAN 6205	Organizational Behavior
ACC 6011	Financial Accounting Analysis
MAN 6931	Current Economic and Social Implications of Information Systems

### Group B: THE BASES FOR SYSTEMS DEVELOPMENT

MAN 6721	Managerial Decision Making
QMB 6845	Simulation of Management Systems
MAN 6815	Computer Administration

### Group C: COMPUTER AND INFORMATION TECHNOLOGY

MAN 6830	Organization Information Systems
CDA 5163	Data Communication Systems
MAN 6837	Data Structure and File Processing in Business

### Group D: INFORMATION SYSTEMS DEVELOPMENT

MAN 6834	Information Requirements Analysis
MAN 6835	Information Systems Design
MAN 6932	Seminar in Systems Development

There are four prerequisites that students must complete before being admitted to the program: Elementary COBOL (COP 3122), Elementary FORTRAN or BASIC (COP 3172), Basic Statistics (QMB 6603), and Economics (ECO 3003).

Because students may come to the program with extensive applied backgrounds or academic training in some areas covered by the curriculum, the Director of the program may allow certain elective courses at the time the student develops his or her program of study. These electives may be taken within the CBA, the Department of Mathematical Sciences (Computer Sciences), and the Department of Economics. Possible electives include: MAN 6501, MAN 6836, QMB 6805, and QMB 6855.

A student may choose to take a secondary area in Management Science within the MIS program. In this plan of study four of the following courses can be taken as substitutes for courses in the program with approval of program director:

MAN 6501, MAN 6836, MAN 6895, QMB 6805, QMB 6855, QMB 6875, QMB 6974.

## Department of Finance and International Business

George Simmons, *Distinguished Service Professor and Chairperson*  
 Robert Bear, *Visiting Professor*  
 Robert Daigler, *Associate Professor*  
 Alan Gart, *Professor*  
 Soga Ewedemi, *Assistant Professor*  
 Jean-François Hennart, *Associate Professor*  
 Ali Parhizgari, *Associate Professor*  
 Arun Prakash, *Associate Professor*  
 Emmanuel Roussakis, *Professor*  
 William Welch, *Associate Professor and Associate Dean*

The Department of Finance and International Business offers undergraduate majors in Finance, Insurance, International Business, and Real Estate; and Master of Science in Management Degrees in Finance, and Real Estate and Urban Development.

### Finance Major

The Finance program leading to the BBA degree is designed to give the undergraduate student managerial finance skills in the areas of banking, corporate finance, investments, and financial markets. The program consists of:

- (1) 36 semester hours of general business core courses
- (2) 12 semester hours of finance core courses:  
 FIN 3414 Intermediate Finance  
 FIN 4304 Financial Markets and Institutions  
 FIN 4502 Security Analysis  
 FIN 4324 Commercial Bank Management
- (3) 9 semester hours of finance electives selected from any 4000 or 5000 level FIN prefixed courses or REE 5305 or REE 5207, and
- (4) A 3 semester hour free elective course.

The prerequisite for FIN 3414 and all 4000 and 5000 level finance courses is FIN 3403.

\*International Business double majors are required to complete FIN 4611 International Finance and three additional 4000 or 5000 level International Business courses.

### Insurance Major

Soga Ewedemi, *Assistant Professor*

Insurance is offered as a major through the Department of Finance and International Business. An insurance major is required to take 18 semester hours of insurance courses including Principles of Insurance RMI 3015. For students majoring in insurance, the following three courses are recommended:

RMI 3015	Principles of Insurance
RMI 4212	Property Insurance and Liability
RMI 4115	Life Insurance



In addition to the three courses stated above, students wishing to improve property and liability insurance will be required to take three of the following courses:

RMI 4220	Casualty Insurance
RMI 4292	Property and Liability Insurance Co. Operations
RMI 4305	Risk Management
RMI 4740	Insurance Underwriting and Rating
RMI 4935	Special Topics in Insurance

For students specializing in Life Insurance, three of the following courses are required:

RMI 4120	Health Insurance
RMI 4135	Employee Fringe Benefit Programs
RMI 4145	Business Insurance and Estate Planning
RMI 4170	Life and Health Insurance
RMI 4500	Social Insurance

Other insurance courses which students may substitute (with the insurance program coordinator's consent) for one or two of the courses detailed above or may use as an elective include:

RMI 4405	Insurance Law
RMI 4085	Introduction to International Insurance
RMI 4910	Independent Study in Insurance
RMI 4117	Personal Insurance Planning

## International Business Major

George B. Simmons, *Distinguished Service Professor and Program Coordinator*  
 Irving Fantl, *Professor*  
 Alan Gart, *Professor*  
 Jean-Francois Hennart, *Associate Professor*  
 Richard Hodggetts, *Professor*  
 David Lavin, *Associate Professor*  
 Jan B. Luytjes, *Professor*  
 Kenneth S. Most, *Professor*  
 Marta Ortiz, *Assistant Professor*  
 Ali Parhizgari, *Associate Professor*  
 Leonardo Rodriguez, *Associate Professor*  
 Emmanuel Roussakis, *Professor*  
 Bruce Seaton, *Associate Professor*  
 George Sutija, *Associate Professor*  
 Ronald H. Vogel, *Associate Professor*

(Please refer to CBA Counseling Office for program changes.)

An International Business (IB) major is offered through the Department of Finance and International Business. All IB majors must also declare a functional major such as accounting, finance, management, or marketing and complete all requirements for that major.

The requirements for the IB major are:

- (1) MAN 4600 International Management
- (2) Three courses chosen from the following,
  - (a) FIN 4611 International Financial Management (required for Finance—International Business dual majors)
  - (b) ACC 4271 International Accounting (required for Accounting—International Business dual majors)

- (c) MAR 4243 International Marketing (required for Marketing—International Business dual majors)
  - (d) MAR 4244 Export Marketing
  - (e) ECO 4701 World Economy
  - (f) ECO 4733 Multinational Corporation
- Additional electives may be chosen, when appropriate and with the advisors approval from Economics, International Relations, and Modern Languages. Please contact the advisor for information on eligible courses.

## Real Estate Major

William R. Beaton, *Professor*  
 Jerry Beloit, *Assistant Professor*  
 Vance R. Johnson, *Assistant Professor*

The Real Estate major is expected to take 15 semester 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 introductory course (REE 4043 — Advanced Real Estate Fundamentals) as well as four other 3 semester hour courses chosen with the consent of his or her major advisor.

## MSM Finance

**PURPOSE:** This graduate program leading to the degree of Master of Science in Management (MSM) is offered for students who want to concentrate in 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 situations. 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 thirty-six semester hours (twelve courses) divided into three groups as follows:

1. Six general core courses: All participating students are required to take these courses. However, eligible students, with counselor's approval, may waive some of these courses based on their previous education. These requirements then become electives. Electives can be selected from the finance specialization courses or accounting, economics, real estate, or computer science. The core courses provide a general background. They cover management, economics, quantitative methods, accounting, information systems, and marketing.
2. Three finance core courses: All MSM Finance students are required to take three general finance courses. These courses give the student a working knowledge of financial management, theory and markets.
3. Three finance specialization courses: Each student will select courses from those finance offerings that are available. A further concentration in a particular subject such

as corporate finance, investments, or financial institutions, is possible and encouraged. Individual faculty counseling is available to provide assistance in designing a field of specialization.

The 36 semester hours requirement may be reduced to thirty for students who possess a Master's Degree in Business Administration. 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 some general core course requirements and they may enroll in additional finance specialization courses. The program is thus sufficiently flexible to provide depth in finance and breadth in business and management.

## COURSES

### General Core Courses

ECP 6704	Managerial Economics
MAN 6205	Organizational Behavior
QMB 6603	Quantitative Methods in Management
ACC 6011	Financial Accounting Analysis
MAN 6830	Organizational Information Systems
MAR 6716	Marketing Management

### Finance Core Courses

FIN 6246	Financial Markets and Institutions
FIN 6428	Financial Management
FIN 6806	Theory of Finance

### Specialization Courses

BAN 5652	Savings and Loans
FIN 5314	Working Capital Management
FIN 5473	Small Business Finance
FIN 5515	Futures Markets
FIN 6315	Commercial Banking
FIN 6316	Management of Non-banking Financial Institutions
FIN 6325	Current Issues in Commercial Banking
FIN 6426	Financial Management Policies
FIN 6436	Capital Budgeting and Long-term Resource Allocation
FIN 6456	Quantitative Methods in Financial Analysis
FIN 6516	Securities Analysis
FIN 6525	Portfolio Analysis
FIN 6625	International Bank Management
FIN 6636	International Finance
FIN 6906	Independent Study in Finance
FIN 6915	Master's Project in Finance
FIN 6936	Special Topics in Finance
REE 5207	Advanced Real Estate Finance
REE 5305	Real Estate Investment

## 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 field of real estate syndication, limited partnerships and joint ventures.

Following a student's admission to the graduate program in Real Estate and Urban Development, each graduate student will develop an individual program of studies approved by his or her faculty advisor.

## Department of Management

Enzo R. Valenzi, *Professor and Chairperson*  
Steven Altman, *Associate Professor, Provost, and Vice President, Academic Affairs*  
Gary Dessler, *Professor*

Herman Dorsett, *Associate Professor*

Dana Farrow, *Associate Professor*

Earnest Friday, *Assistant Professor*

Richard M. Hodgetts, *Professor*

William T. Jerome, *Distinguished University Professor*

Willabeth Jordan, *Instructor*

K. Galen Kroeck, *Assistant Professor*

Karl O. Magnusen, *Associate Professor*

John Mills, *Assistant Professor*

Eleanor Polster, *Instructor*

Daniel J. Robey, *Professor*

Leonardo Rodriguez, *Associate Professor*

Gloria Shapiro, *Assistant Professor*

Valdur Silbey, *Associate Professor*

William M. Taggart, *Professor*

The Department of Management offers degree programs of study at the Bachelor's level in Organizational Theory, Personnel Management, Behavioral 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 12 semester hours of courses listed with the Management Department at the 4000 level.

Alternative courses for Management students in specific subject areas:

### Personnel Management Major (Select 4 of 5)

MAN 4401 Industrial Relations

MAN 4410 Labor, Management, and Collective Bargaining

MAN 4301 Personnel Management

MAN 4320 Personnel Recruitment and Selection

MAN 4330 Wage and Salary Administration.

### Information Systems Major

MAN 4820 Systems Analysis and Design

MAN 4821 Data Base Applications

MAN 4822 Systems Management

MAN 4201 Organization Theory

### General Management Major

MAN 4142 Managerial Decision Styles

Any three (3) other courses listed with the Management Department

**NOTE:** A concentration in Operations and Management Science is available within the Management major. This major is described under the Department of Decision Science. Elective courses outside the CBA must be taken in the Departments of Economics, Mathematical Sciences, or Psychology. Exceptions may be permitted with the approval of the Department Chairperson.

## Department of Marketing and Environment

William T. Jerome, *Distinguished University Professor and Acting Chairperson*

Yao Apasu, *Assistant Professor*

Anne Fiedler, *Instructor and Assistant Dean*

Robert Hogner, *Associate Professor*

Jan B. Luytjes, *Professor*

William Mayville, *Instructor*

J.A.F. Nicholls, *Associate Professor*

Marta Ortiz, *Assistant Professor*

Ved Prakash, *Assistant Professor*

Lynda Raheem, *Instructor*

Sydney Roslow, *Associate Professor*

Willard Salzer, *Visiting Lecturer*

Philip Shepherd, *Assistant Professor*

### Marketing Major

The Marketing Major requires 15 semester hours of senior (4000) level marketing course work, of which the following nine hours are required:

MAR 4503 Consumer Behavior

MAR 4613 Marketing Research

MAR 4713 Cases in Marketing Management

The remaining six 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

#### 4. 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 undergraduate marketing offerings or any mix of courses.

**Approved Electives:** Marketing majors may select any 4000-level business course as an elective. With the prior approval of the Counseling Office, certain non-business courses also may be used as electives (depending upon their relevance to the student's academic program and career objectives).

## Transportation Management Major

J.A.F. Nicholls, *Associate Professor*

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 15 semester hours of Transportation Management courses at the senior (4000) level. The student is required to take TRA 4240 — Transportation Systems and Services for 3 semester 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 4380 — Transportation Policy; 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; TRA 4936 — Special Topics in Transportation (Air Carrier Marketing)).

## 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 is aimed at developing a management generalist who has a breadth of knowledge and understanding, and who is oriented toward pragmatic problem solving.

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 36 semester 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. The elective may be taken from any of the 6000 level offerings in Business Administration. Students whose background in accounting, statistics, or economics is evaluated to be inadequate will be required to complete ACC 6011 (Financial Accounting Analysis), QMB 6603 (Quantitative Methods in Management), and/or ECP 6704 (Managerial Economics) as prerequisites to the program.

### MBA PROGRAM

Area	Regular Course	Possible Substitute Courses <sup>1</sup>
Information Systems	MAN 6830 Organization Information Systems	MAN 6833 Information Systems Planning
Quantitative Methods*	MAN 6721 Managerial Decision-making	MAN 6836 Systems Analysis
Accounting**	ACC 6313 Accounting for Decision-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 (Corporate)	FIN 6428 Financial Management	FIN 6636 International Finance FIN 6246 Financial Markets FIN 6806 Theory of Finance
Operations	MAN 6501 Operations Management	MAN 6836 Systems Analysis
Marketing	MAR 6716 Marketing Management	MAR 6246 Advanced International Marketing
Management	MAN 6205 Organizational Behavior	MAN 6112 Group Processes in Organizations MAN 6405 Labor Relations MAN 6601 International Management

<sup>1</sup> See the guidelines under program description above.

\*For the student without STA 3132 and QMB 3150 (college algebra and statistics) background, QMB 6603 must be taken prior to MAN 6721.

	MAN 6207 Organization and Management Theory	(None)
Economics	ECP 6705 Macro-economic Forecasting for Conditions Management	FIN 6435 Forecasting Business Conditions
Environment	MAN 6713 International Business Environment	BUL 6124 Survey of Business Law MAN 6635 International Business Policy (No substitutes)
Policy	MAN 6726 Policy Analysis	
Elective: One 6000 level business administration course (3 semester hours).		

\*\*For the student without ACC 3300 and ACC 3303 (financial and managerial accounting) background, ACC 6011 must be taken prior to ACC 6313 and FIN 6428. NOTE: The first three categories — information systems, quantitative methods, and accounting — must be satisfied prior to taking any other MBA courses. The policy course must be scheduled for the last semester of MBA study.

## Master of International Business (MIB)

The Master of International Business program is a 36 semester hour program designed to acquaint students with the international environment and provide basic management tools. The courses give the student a conceptual framework of international business, international economics, and international politics, as well as a thorough background in the functional areas of business.

All students will be required to demonstrate competence in quantitative methods and accounting, or will be required to take QMB 6603 and ACC 6011 in addition to the courses listed below. Each candidate will also be required to demonstrate basic reading and speaking competence in one major world commercial language other than English.

### Required Courses:

1. ACC 6313 Accounting for Decision Making
2. MAN 6205 Organizational Behavior
3. FIN 6428 Financial Management
4. MAR 6716 Marketing Management
5. ECO 5701 The World Economy
6. ECP 6704 Managerial Economics
7. INR 6205 World Politics
8. MAN 6713 International Business Environment
9. FIN 6636 International Finance
10. MAN 6715 Corporate Negotiations
11. MAN 6635 International Business Policy
12. MAN 6830 Organizational Information Systems

## 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, International Bank Management, Marketing, Personnel Management, Savings and Loan, and Transportation Management. A Certificate is awarded upon successful completion of each program.

Students seeking to enroll in the undergraduate Insurance, Marketing and Transportation Certificate Programs must meet upper division University admission requirements. Students wishing to enter the Banking, International Bank Management, or Savings and Loan Certificate Programs must meet all prerequisites for courses in those respective programs. Please contact the Business Counseling Office at 554-2781 for application details. (Students seeking to enter the Personnel Certificate Program should contact the Management Department for details).

In all cases, students must apply to, and be accepted into the various Certificate Programs. Upon successful completion of the appropriate course work, and upon application by the student to the appropriate department, a Certificate of Completion will be awarded.

## Banking Certificate General Description

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

Participants with the appropriate educational background are expected to complete the Certificate Program by enrolling in one finance course each semester for four successive semesters.

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

Specific program requirements for the Certificate in Banking program.

FIN 3414	Intermediate Finance
or	
FIN 6426	Financial Management Policies

FIN 4303	Financial Markets and Institutions
or	
FIN 6246	Financial Markets and Institutions
FIN 4324	Commercial Bank Management
or	
FIN 6315	Commercial Banking
FIN 5345	Credit Analysis and Loan Evaluation

## 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 meeting undergraduate entrance requirements, who may be seeking professional recognition and qualifications.

Students who have completed 18 semester hours of insurance courses with a minimum grade point average of 2.0 in the insurance courses will be eligible for the Certificate of Professional Insurance Accomplishment.

Special students whose objective is to take the 2-20 license examination will be required to complete:

RMI 3015	Principles of Insurance
RMI 4212	Property and Liability Insurance
RMI 4220	Casualty Insurance

and any two other courses that may be related to Property and/or Casualty insurance.

Inquiries concerning the Certificate in Professional Insurance Accomplishment should be addressed to the Department of Finance and International Business.

## International Bank Management Certificate

The Certificate in International Bank Management (CIBM) is designed to train existing and future bankers in the areas of international banking policy, practice, and technique. Its interest is to provide an interface between the domestic and international side of banking for bank managers.

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

The required courses are:

1. FIN 3414 Intermediate Finance  
or  
FIN 6426 Financial Management Policies
2. FIN 4324 Commercial Bank Management  
or  
FIN 6315 Commercial Banking  
or  
FIN 5345 Credit Analysis and Loan Evaluation

3. FIN 4611 International Financial Management  
or  
FIN 6636 International Finance
4. FIN 4627 International Banking  
or  
FIN 6625 International Bank Management

## Marketing Certificate

Students seeking to enroll in the Marketing Certificate must be admitted to an upper division University program. This certificate is not open to Marketing majors.

The program is comprised of a set of six three-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 electives students are recommended to take three courses from the following regularly offered marketing classes and other selected courses:

- MAR 3701 Business and 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 Department Chairperson and Dean of the College.

## Personnel Management Certificate

The objective of the Certificate program in Personnel Management is to provide training in personnel management techniques and methods to individuals who do not necessarily wish to seek a degree. The program is aimed at developing immediately applicable skills in individuals who already have some foundation in the concepts and role of the personnel management function.

A Certificate signed by the Department Chairperson and the Dean of the College will be awarded to students who complete one prerequisite statistics course (three semester hours or equivalent) and the program of four three-credit hour courses in the personnel management area of concentration. A "B" average is required for

successful completion of the program. Credits earned by completing courses in the program may not be applied toward a business degree.

**Course Sequence:** The Certificate program consists of the following four required courses which must be taken in this order:

- Fall MAN 4301 Personnel Management
- Spring MAN 4401 Personnel Recruitment and Selection
- Summer Term A: MAN 4320 Industrial Relations
- Summer Term B: MAN 6351 Personnel Training and Development

For students who desire to take additional elective courses, the following are recommended:

- Wage and Salary Administration
- Behavioral Science in Management
- Labor, Management, and Collective Bargaining
- Small Business Management

Because admission to this program is in the Fall semester only, applications must be received prior to June 30. For additional information regarding admission, contact the Department of Management at 554-2791.

## Savings and Loan Certificate

The Certificate program consists of four undergraduate or graduate finance courses. Upon successful completion of the four-course sequence, a Certificate signed by the Dean of the College of Business Administration will be awarded.

This program should be of interest to persons currently employed at the middle management level in savings and loans who wish to improve 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.

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

With prior advisor approval, graduate students may transfer all of the Certificate courses toward Master's degree credit while undergraduate students may transfer all of the courses toward Bachelor's degree credit.

The required courses are:

- FIN 4303 Financial Markets and Institutions
- or
- FIN 6246 Financial Markets and Institutions
- BAN 5652 Savings and Loan Management
- REE 5105 Valuation of Real Estate
- REE 5207 Advanced Real Estate Finance

Applicants with a Bachelor's degree who are interested in pursuing a Master's degree in Finance should take FIN 6246 rather than FIN 4303.



## Transportation Management Certificate

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

Students seeking to enroll in the Transportation Management Certificate must be admitted to an upper division University program.

The Certificate program requires participants to obtain 18 semester hours, or six three-credit hour classes (of which 12 hours are required, 6 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 4101	Transportation Rate Making
TRA 4012	Transportation Logistics
TRA 4380	Transportation Policy
TRA 4936	Special Topics in Transportation (Air Carrier Marketing)

## Course Descriptions

### Definition of Prefixes

ACC — Accounting; BAN — Banking; BUL — Business Law; CIS — Computer and Information Systems; FIN — Finance; MAN — Management; MAR — Marketing; QMB — Quantitative Methods in Business; REE — Real Estate; RMI — Risk Management and Insurance.

### Departmental or School/College Designation:

- AC — Course taught by School of Accounting
- DS — Course taught by Department of Decision Sciences
- EC — Course taught by Department of Economics, College of Arts and Sciences
- FI — Course taught by Department of Finance and International Business
- MA — Course taught by Department of Management
- ME — Course taught by Department of Marketing and Environment
- MS — Course taught by Department of Mathematical Science, College of Arts and Sciences

**ACC 3300 Accounting for Decisions (AC)** (3)  
Accounting concepts and analyses essential to determining the income and financial position of a business enterprise. Prerequisites: At least six semester hours of introductory financial and managerial accounting with a grade of "C" or higher, and successful completion of a readiness examination.

### ACC 3303 Accounting for Planning and Control (AC)

(3)  
Use of accounting concepts, analyses, and financial data to aid in the evaluation of the business enterprise; and to aid management in its planning, organizing, and controlling functions. Prerequisites: At least six semester hours of introductory financial and managerial accounting with grades of "C" or better and successful completion of a readiness examination.

### ACC 4102 Financial Accounting I (AC)

(3)  
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). Prerequisites: Calculus I and Logic with grades of "C" or better, ACC 3303 with a grade of "B" or better, and junior standing.

### ACC 4122 Financial Accounting II (AC)

(3)  
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 (AC)

(3)  
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 (AC)

(3)  
An in-depth study of recent developments in financial accounting. Prerequisite: ACC 4122.

### ACC 4271 International Accounting (AC)

(3)  
Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurement; and the role of accounting in national economic development. Prerequisite: ACC 3303 with a grade of "C" or better.

### ACC 4301 Managerial Accounting (AC)

(3)  
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. Prerequisites: ACC 4102 and MAN 3503 with grades "C" or better.

### ACC 4348 Topics in Managerial Accounting (AC)

(3)  
An in-depth study of selected areas of managerial accounting. Prerequisite: ACC 4301 or equivalent.

### ACC 4501 Income Tax Accounting (AC)

(3)  
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 (AC)

(3)  
An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: ACC 4501 or equivalent.

### ACC 4548 Topics in Taxation (AC)

(3)  
An in-depth study of recent legislative, administrative, and judicial developments in taxation. Prerequisite: ACC 4501 or equivalent.

### ACC 4601 Auditing (AC)

(3)  
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.

### ACC 4648 Topics in Auditing (AC)

(3)  
An in-depth study of recent developments in auditing. Prerequisite: ACC 4601 or equivalent.

### ACC 4731 Accounting Information Systems (AC)

(3)  
Fundamentals of information systems and use of computers in the accounting system of business enterprises. Development of computer technology, techniques of flow charting, and basic design of accounting applications. Student project includes use of computer time-sharing terminal to simulate communications and coordination between accountants and data sharing personnel. Prerequisites: COP 3172 or equivalent, ACC 4301, and ACC 4601.

### ACC 4905 Independent Study in Accounting (AC)

(1-6)  
Individual conferences, supervised readings, and reports on personal investigations. Written permission of the instructor, School Director, and Dean required.

### ACC 4930 Special Topics in Accounting (AC)

(1-6)  
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, School Director, and Dean required.

### ACC 6011 Financial Accounting Analysis (AC)

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

### ACC 6275 International Accounting (AC)

(3)  
Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurements; the role of accounting in national economic development. Prerequisite: ACC 4201 or equivalent, or consent of instructor.

### ACC 6291 Seminar in Financial Accounting Theory I (AC)

(3)  
A study of the theoretical structure of accounting, with special attention to asset and income definition, recognition, and measurement; and an appraisal of pronouncements of professional accounting organizations. Prerequisite: ACC 4201 or equivalent, or consent of instructor.

**ACC 6313 Accounting for Decision****Making (AC)** (3)

The uses and limitations of accounting data as sources of information for managerial decisions. Prerequisite: ACC 6011.

**ACC 6391 Seminar in Managerial****Accounting I (AC)** (3)

Analysis of transfer pricing; product pricing; incremental profit analysis; decision models; alternative performance measurement techniques; and other advanced topics. Prerequisite: ACC 4301 or ACC 6313, or equivalent.

**ACC 6512 Income Tax Research (AC)** (3)

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 equivalent.

**ACC 6513 Tax Accounting (AC)** (3)

An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager.

**ACC 6515 Transactions in Property (AC)** (3)

An in-depth investigation into tax problems relating to basis, capital gains and losses, and nonrecognition provisions for transactions in property with special emphasis on personal property transactions and securities investments.

**ACC 6531 Taxation of Corporations I (AC)** (3)

The study of the federal tax consequences of the formation, operation, reorganization and liquidation of corporations; election of Subchapter S status; distributions and redemptions. Prerequisite: ACC 6512 or permission of the instructor and the advisor for the taxation specialization.

**ACC 6552 Taxation of Deferred****Compensation (AC)** (3)

The taxation of qualified and nonqualified pension and profit-sharing plans, stock options, annuities, lump-sum distributions, death benefits, rollovers, self-employment plans, employee stock ownership plans, etc.

**ACC 6553 Estate and Gift Taxation (AC)** (3)

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 (AC)** (3)

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 equivalent.

**ACC 6555 Taxation of****Corporations II (AC)** (3)

An in-depth study of the tax benefits inherent in multiple corporate groups, including consolidated returns and reorganizations. Prerequisites: ACC 6512 and ACC 6531.

**ACC 6556 Partnership Taxation (AC)** (3)

The intensive study of the formation, operation, and dissolution of partnerships (general and limited). Prerequisite: ACC 6531 or permission from the instructor.

**ACC 6557 Fiduciary Accounting and****Taxation (AC)** (3)

The study of the income taxation of estates, trust, and the beneficiaries thereof, including the determination of distributable net income, and throwback rules. The grantor trust and income in respect of a decedent is emphasized. The use of trusts in tax and estate planning is also explored. Prerequisites: ACC 6512 and ACC 6553.

**ACC 6558 Current Developments in****Taxation (AC)** (3)

The study of recent legislative, administrative and judicial developments in taxation. Prerequisites: ACC 6512 and ACC 6554.

**ACC 6559 Seminar in Taxation (AC)** (3)

Intensive study of a particular topic or a limited number of topics. The topics included in this course will depend upon the availability of faculty with expertise in the following special classes of tax problems: advanced corporate taxation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisites: ACC 6512 and ACC 6554.

**ACC 6561 Estate Planning (AC)** (3)

An in-depth discussion of the use of estate tax planning tools, such as lifetime gifts, life insurance, the marital deduction, the use of trusts, future interests, annuities, powers of appointment, charitable transfers, and post-mortem planning.

**ACC 6582 International Taxation (AC)** (3)

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 6651 Studies in Auditing (AC)** (3)

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 equivalent.

**ACC 6735 Seminar in Accounting****Information Systems I (AC)** (3)

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 4731 or equivalent.

**ACC 6745 Seminar in Accounting****Information Systems II (AC)** (3)

A continuation of ACC 6735, with emphasis on the theories underlying complex information systems. Prerequisite: ACC 6735 or equivalent.

**ACC 6807 Accounting Research****and Reporting (AC)** (3)

Investigation of numerous assigned research projects in the area of financial, managerial, and income tax accounting, and the preparation of appropriate reports in both oral and written formats.

**ACC 6822 Behavioral Accounting (AC)** (3)

Study of the effect of the process and products of accounting and of the relation of changes in the process and products to individual and group behavior; consideration of ways in which accounting can aid individuals and organizations to attain their goals. Prerequisites: ACC 4122 and 4301 or equivalents.

**ACC 6832 Accounting and Quantitative****Methods (AC)** (3)

Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: MAN 3503, QMB 3150 and ACC 4731, or equivalents.

**ACC 6845 Seminar in Managerial****Accounting II (AC)** (3)

A study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance; and relationship to internal audit function. Prerequisite: ACC 4301 or equivalent.

**ACC 6865 Governmental and Institutional****Accounting (AC)** (3)

Budgeting, accounting, and reporting standards and practices for government and other not-for-profit entities. Prerequisite: ACC 4122 or equivalent.

**ACC 6907 Independent Study in****Accounting (AC)** (1-3)

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty advisor and Department Chairperson required.

**ACC 6932 Seminar in Financial Accounting****Theory II (AC)** (3)

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 (AC)** (1-3)

Intensive study for groups of students of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty advisor and Department Chairperson required.

**BAN 5652 Savings and Loans****Management (FI)** (3)

Financial management of savings and loan associations and other mortgage lenders, supply and demand of mortgage funds; state and federal regulatory bodies' legal and institutional characteristics related to mortgage markets. Prerequisite: FIN 3403 or FIN 6428, or equivalent.



- BUL 4100 Legal Environment of Business (AC)** (3)  
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 provisions; and various aspects of employment legislation, as well as other selected topics.
- BUL 4111 Business Law I (AC)** (3)  
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 (AC)** (3)  
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 (AC)** (1-6)  
Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.
- BUL 4905 Independent Study in Business Law (AC)** (1-6)  
Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.
- BUL 6124 Survey of Business Law (AC)** (3)  
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.
- BUL 6651 Special Topics in Business Law (AC)** (1-6)  
Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.
- BUL 6906 Independent Study in Business Law (AC)** (1-6)  
Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.
- CIS 3000 Introduction to Information Systems (MA)** (3)  
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. Prerequisite: Completion of the Computer Programming Proficiency Requirement.
- ECO 3003 Economics, Man and Society — Micro (EC)** (3)  
Relationship of economics to individual action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups.
- ECO 3011 Economics, Man and Society — Macro (EC)** (3)  
Relationship of economics to aggregate income. 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 Applied Macroeconomics (EC)** (3)  
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.
- ECP 6704 Managerial Economics I (EC)** (3)  
Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries.
- ECP 6705 Macroeconomic Forecasting for Management (EC)** (3)  
Business macroeconomic concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6704.
- FIN 3403 Financial Management (FI)** (3)  
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.
- FIN 3414 Intermediate Finance (FI)** (3)  
Special topics (multinational finance, mergers, bankruptcy and reorganization, leasing, and warrants and convertibles), and case problems in financial management. Prerequisite: FIN 3403 or equivalent.
- FIN 3949 Cooperative Education in Finance (FI)** (3)  
Semesters of full-time classroom study are alternated with semesters 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: Approval of Chairperson.
- FIN 4100 Estate Analysis and Planning (FI)** (3)  
A personal financial management approach to estate creation, maintenance, and transfer. Uses financial analysis techniques and portfolio approaches to evaluate alternate strategies. Prerequisite: FIN 3403 or equivalent.
- FIN 4303 Financial Markets and Institutions (FI)** (3)  
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 (FI)** (3)  
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 (FI)** (3)  
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 (FI)** (3)  
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 (FI)** (3)  
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 3403 or equivalent.
- FIN 4502 Securities Analysis (FI)** (3)  
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 (FI)** (3)  
Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: FIN 4502 or equivalent.
- FIN 4611 International Financial Management (FI)** (3)  
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 4627 International Banking (FI)** (3)  
Introductory survey of issues that deal with international aspects of banking. The course provides an overview of the structure and operation of the international banking function, the services offered, supporting documentation, and

measures to improve the efficiency and effectiveness of the international banking organization. The purpose of the course is to acquaint the students with the daily activities in international banking. Prerequisite: FIN 4324 or permission of instructor.

#### **FIN 4713 Financial Policies for Not-For-Profit Organizations (FI) (3)**

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 (FI) (1-6)**

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

#### **FIN 4934 Special Topics in Finance (FI) (1-3)**

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 (FI) (3)**

Semesters of full-time classroom study are alternated with semesters 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: Approval of Chairperson.

#### **FIN 5314 Working Capital Management (FI) (3)**

Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

#### **FIN 5345 Credit Analysis and Loan Evaluation (FI) (3)**

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. Prerequisites: FIN 3403 or FIN 6428, or equivalent.

#### **FIN 5444 Leasing and Mergers (FI) (3)**

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 (FI) (3)**

The financial markets, financial instruments, and managerial policies and techniques available to potential and existing entrepreneurs and

owner/managers. Emphasis will be upon analysis of areas of opportunity for small business: analysis of financing alternatives; and analysis of profitability. Prerequisite: FIN 3403 or FIN 6428, or equivalent.

#### **FIN 5515 Futures Trading (FI) (3)**

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 (FI) (3)**

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.

#### **FIN 6315 Commercial Banking (FI) (3)**

The objectives, constraints, and policies applicable to the management of commercial banks. Emphasis will be given to asset and liability management, marketing of services and other banking functions. Prerequisite: FIN 6246 or equivalent.

#### **FIN 6316 Management of Nonbank Financial Institutions (FI) (3)**

The objectives, constraints, and policies applicable to the management of nonbank financial inst.; S & L assoc., credit unions, REITs, and insurance, invest. and finance companies.

#### **FIN 6325 Current Issues in Commercial Banking (FI) (3)**

Main policy issues in commercial banking and the role of regulatory authorities. Presentation includes bank mergers and holding companies; national bank branching; and the present structure and prospects of financial sector. Prerequisite: FIN 6315 or equivalent.

#### **FIN 6426 Financial Management Policies (FI) (3)**

The selection and management of current and permanent assets to achieve corporate objectives. The selection and management of alternative sources of funds to obtain the optimal capital structure. Prerequisite: FIN 6428 or equivalent.

#### **FIN 6428 Financial Management (FI) (3)**

In-depth examination of asset, liability and capital structure management, with emphasis on capital budgeting techniques; risk evaluation; working capital management; and methods of short term, intermediate, and long term financing. Prerequisite: ACC 6011 or equivalent.

#### **FIN 6435 Forecasting Business Conditions (FI) (3)**

Techniques for forecasting business conditions within local, regional, national, and worldwide contexts. Course covers appropriate methodology of statistics and economics, and techniques of computer utilization useful in achieving forecasts.

#### **FIN 6436 Capital Budgeting and Long Term Resource Allocation (FI) (3)**

The theory of capital allocation at the level of the firm, and empirical findings. Decision mod-

els 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 (FI) (3)**

The applications of computer techniques to financial management of manufacturing firms and financial institutions. Prerequisite: FIN 6428 or equivalent.

#### **FIN 6516 Securities Analysis (FI) (3)**

An analysis of contemporary securities markets and their operations. The determinants of the risk reward structure of equity and debt securities. Prerequisite: FIN 6246 or equivalent.

#### **FIN 6525 Portfolio Management (FI) (3)**

Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: FIN 6516 or equivalent.

#### **FIN 6625 International Bank Management (FI) (3)**

Growth of U.S. international banking and description of international banking services. Examination of lending practices, types of risk and formulation of international banking policy.

#### **FIN 6636 International Finance (FI) (3)**

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

#### **FIN 6716 Financial Management of Governmental Organizations (FI) (3)**

The budgetary process of identifying, justifying, and allocating funds. The securing of funds in the market and the efficient allocation of funds.

#### **FIN 6806 The Theory of Finance (FI) (3)**

The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multi-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisite: FIN 6428 or equivalent.

#### **FIN 6906 Independent Study in Finance (FI) (1-6)**

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

#### **FIN 6915 Master's Project in Finance (FI) (1-6)**

An individualized research project and report, which may include field experience with a firm or agency; library research; computer programming; or project development. 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 (FI)** (1-3)  
For groups of students who desire intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**MAN 3010 Organization and Management (MA)** (3)  
An analysis of organizations and the management processes of planning, organizing, 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 (DS)** (3)  
This course concentrates on practical decision problems for the manager in an organization. Topics include decision-making theory, linear programming and extensions, Markov Chains, queuing, simulation, and decision support systems. Use of computer packages. Prerequisites: College Algebra, STA 3132 or the equivalent, and QMB 3150.

**MAN 3602 International Business (FI)** (3)  
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 3701 Business & Society (ME)** (3)  
An examination of the place and role of business in contemporary society. The interaction between business and its economic, legal, political, social, and international environments is discussed and analyzed in detail. Among topics which may be covered are the development and current structure of social systems, as itemized above, which set forth the parameters in which business operates. That is, government legislation and regulation, constitutional law, political and cultural limitations, and other topics.

**MAN 3949 Cooperative Education—Management I (MA)** (1-3)  
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 (MA)** (3)  
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 (MA)** (3)  
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 4142 Managerial Decision Styles (MA)** (3)  
An experiential, theoretical, and applied investigation of personal decision styles and their relation to management and human effectiveness. Focus upon analytic and intuitive styles of thinking.

**MAN 4151 Behavioral Science in Management (MA)** (3)  
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 (MA)** (3)  
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.

**MAN 4301 Personnel Management (MA)** (3)  
Attention is focused on the theory and practice of modern personnel management as related to other management functions. Topics include: selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resource management and development at various organizational levels.

**MAN 4320 Personnel Recruitment and Selection (MA)** (3)  
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 (MA)** (3)  
A survey of personnel reporting requirements; assessment of information needs; manpower planning; and development of integrated personnel systems. Prerequisites: CIS 3000 and MAN 4301.

**MAN 4330 Wage and Salary Administration (MA)** (3)  
Presents the theories and techniques used by management in the areas of work measurement, wage incentives, and job evaluation.

**MAN 4401 Industrial Relations (MA)** (3)  
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 (MA)** (3)  
The various options for settlement of labor-management 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. Students should complete MAN 4401 prior to taking this course.

**MAN 4521 Operations Management (DS)** (3)  
Concepts in design, analysis, and control of operating systems. Facility location and layout, work standards, maintenance, quality control, MRP, planning and scheduling applied to production and service systems. Prerequisites: MAN 3503 and QMB 3150.

**MAN 4523 Production Information Systems (DS)** (3)  
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. Prerequisites: CIS 3000 and MAN 4521, or consent of instructor.

**MAN 4600 International Management (FI)** (3)  
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-Im Bank, EEC, IBRD); international financial management issues in multinational accounting; personnel management, comparative business customs and behavioral issues; export import procedures; conflicts with national interests. Prerequisite: MAN 3602.

**MAN 4610 International and Comparative Industrial Relations (FI)** (3)  
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 (ME)** (3)  
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 3701 or consent of Instructor.

**MAN 4722 Policy Analysis (MA)** (3)  
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 last academic semester of senior year.

**MAN 4731 Modern Business History (ME) (3)**  
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 3701 or consent of the Instructor.

**MAN 4741 Business Environment and Policy Formation (ME) (3)**  
A course studying the conceptual and environmental 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 3701 or consent of Instructor.

**MAN 4742 Business and the Environment (ME) (3)**  
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 3701 or consent of Instructor.

**MAN 4781 Women in Management of Business Organizations (MA) (3)**  
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 (MA) (3)**  
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 4820 Systems Analysis and Design (MA) (3)**  
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 Data Base Applications (MA) (3)**  
Application of data base technology and concepts to organization problems. Includes DBMS components; hierarchic, network and relational approaches to DBMS design. Hands on experience with a DBMS. Prerequisites: COP 3122 and MAN 4820. Cannot be taken for credit by student who have had COP 5540.

**MAN 4822 Systems Management (MA) (3)**  
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. Prerequisite: MAN 4821.

**MAN 4905 Independent Study in Management (MA) (1-6)**  
Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required. P/F only.

**MAN 4930 Special Topics in Management (MA) (1-6)**  
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 (MA) (1-3)**  
Continuation of MAN 3949. Prerequisites: MAN 3949 and qualification for Cooperative Education Program.

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

**MAN 5521 Advanced Production Management (3)**  
More advanced methods in master planning, forecasting, capacity management, production activity scheduling/control, MRP and inventory management. This course has a professional orientation similar to the APICS certification guidelines. Prerequisite: MAN 4521 or MAN 6501, or Department Chairperson's approval.

**MAN 5930 Seminar in Personnel Management (MA) (3)**  
Overview and examination of the various aspects of the personnel management function. Course is only open to students enrolled in the Personnel Management Certificate Program.

**MAN 6112 Group Processes in Organizations (MA) (3)**  
The social and psychological processes of organizational functioning. The roles played by small groups in organizational settings.

**MAN 6121 Interpersonal Behavior and Analysis (MA) (3)**  
A human interaction-human relations training laboratory, designed to increase both self-awareness and understanding of behavior dynamics in groups. Course is intended to enable students to broaden their conceptual understanding of human interpersonal communications and conflict.

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

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

**MAN 6205 Organizational Behavior (MA) (3)**  
Individual, interpersonal, and small group behavior in complex organizations. Focus on behavior, its causes, and management interventions to improve organizational effectiveness. Research methods to study organizational behavior.

**MAN 6207 Organization and Management Theory (MA) (3)**  
Analysis and design of the structure and process of complex organizations. Effects of task uncertainty, growth, power, goals, and information technology on organization structure and control.

**MAN 6213 Conflict in Organizations (MA) (3)**  
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 (MA) (3)**  
Attention is focused on the theory and practice of modern personnel management, as related to other management functions. Topics include selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resources management and development at various organizational levels.

**MAN 6321 Personnel Selection and Placement (MA) (3)**  
Individual differences and their measurement in personnel selection and job placement. Job design and redesign.

**MAN 6331 Compensation Administration (MA) (3)**  
An in-depth analysis of wages and salary administration, including such topics as job evaluation; wage incentive systems; and work sampling.

**MAN 6351 Personnel Training and Development (MA) (3)**  
Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity management.



**MAN 6405 Labor Relations (MA)** (3)  
Examines the collective bargaining system in the United States from the viewpoint of the practitioner. Various aspects of the environment, structure, processes, issues and impact of collective bargaining are considered. Special attention is given to the negotiation and administration of agreements.

**MAN 6411 Collective Bargaining Topics (MA)** (3)  
An advanced course in labor relations, for students with some background who desire more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations, are treated at length.

**MAN 6501 Operations Management (DS)** (3)  
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 6529 Seminar in Production Control Systems (DS)** (3)  
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 (FI)** (3)  
Graduate seminar focusing on management issues confronting the multinational enterprise. Includes basic trade theory; tariffs and trade barriers; organizational transfer, foreign exchange; international financial management; export-import procedures; comparative business customs; personnel management; and institutions affecting the multinational manager.

**MAN 6610 International Labor-Management Relations (FI)** (3)  
Comparative analysis of selected industrial relations systems and impact on multinational firms and international labor movements. Emphasis on empirical models and management-oriented case studies.

**MAN 6630 Problems in Comparative Management (FI)** (3)  
Discussion of literature, readings, and cases, aimed at underscoring the differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing comparative data on management differences.

**MAN 6635 International Business Policy (FI)** (3)  
An analysis of corporate strategies in a rapidly developing and changing world environment. Emphasis will be placed on forecasting, planning, and contingency strategies. The course is taught by case method and stresses the environmental and institutional constraints on decision making within the organization. Corporate executives are invited to attend whenever possible. Prerequisites: ACC 6011, MAN 6205, FIN 6428, and MAR 6716.

**MAN 6713 International Business Environment (FI)** (3)  
A macro-examination of economic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications and societal forecasting of change; organizational responses to change; and the nature and rate of change in different societies.

**MAN 6715 Corporate Negotiations (MA)** (3)  
An examination and analysis of corporate negotiation strategies in such areas as collective bargaining, mergers, joint ventures, and with government regulation agencies. The legal environment affecting the negotiated process will be closely scrutinized, as well as internal and external political processes. Prerequisites: ACC 6011, MAN 6205, FIN 6428, MAR 6716, MAN 6713.

**MAN 6721 Managerial Decision-Making (DS)** (3)  
This course will investigate and analyze the decision-making problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis will be placed on providing a variety of decision-making experiences for the student. Prerequisite: QMB 6603 or equivalent.

**MAN 6726 Policy Analysis (MA)** (3)  
The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy 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 semester of master's program.

**MAN 6815 Computer Administration (DS)** (3)  
The theory and practice of computer management. Topics include selection, training, job and performance evaluation, and incentive schemes as they relate to key positions of systems analysis, programming, data preparation and entry, and project management. Special attention is given to human resources management and development at various levels within the EDP department.

**MAN 6830 Organization Information Systems (DS)** (3)  
Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability. Prerequisite: COP 3172 or equivalent.

**MAN 6833 Information Systems Planning (DS)** (3)  
An in-depth study of systems concepts, as they apply to information systems in organizations. Consideration of planning for systems development and its accomplishment through the phases of the life cycle, and of the overall management of the information systems function.

**MAN 6834 Information Analysis (DS)** (3)  
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 elic-

iting requirements; and techniques for documenting requirements and report content.

**MAN 6835 Systems Design (DS)** (3)  
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, basis of structure and design, and conversion of the design into programming specifications. Prerequisite: MAN 6834.

**MAN 6836 Systems Analysis (DS)** (3)  
A study of the systems approach to problem solving as it applies to any area of specialization. Consideration of the problems in determining system objectives; identifying system boundaries and constraints; marshalling resources for achieving system objectives; analyzing the subcomponents of the system and their respective objectives; and managing the system.

**MAN 6837 Data Structures and File Processing in Business (DS)** (3)  
This course deals with major levels of data organization, data base management, hierarchic and associative structures, file maintenance, and privacy and security measures and safeguards.

**MAN 6838 Seminar in Systems Development (DS)** (3)  
Student conducts an individual research project or thesis on a topic in the area of computer personnel, systems analysis and design, or other areas within the framework of the MIS program, subject to the instructor's approval. Prerequisite: MAN 6835.

**MAN 6895 Seminar in Management Science (DS)** (3)  
New topics and new application areas will be explored. Lectures will relate to the latest advances in the theory and application of management science. Prerequisite: Instructor's approval.

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

**MAN 6910 Research Methods in Management (MA)** (3)  
Covers the research methods and analytical techniques most widely used in research in human resources and general management. Emphasis is on helping students to become more aware of current techniques and their applications.

**MAN 6911 Research in Systems Development (DS)** (3)  
Conduct an individual research project or thesis on a topic in the area of computer personnel, systems analysis and design, or other areas within the framework of the MIS program, subject to the instructor's approval. Prerequisite: MAN 6835.

**MAN 6930 Master's Seminar in Management (MA)** (1-3)  
An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings; active discussion; and small,

short-term action and research projects. The student may make a preliminary selection of his/her master's thesis or project topic.

**MAN 6931 Current Economic and Social Implications for Information Systems (DS)** (3)

The effects and organizational implications for information systems of business and community. The privacy issue, consideration of major trends dealing with electronic funds transfer, the electronic mail, automated teller machines, and the like on business society.

**MAN 6974 Master's Project in Management (MA)** (1-6)

Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the School.

**MAR 3023 Marketing Management (ME)** (3)

A descriptive study emphasizing the functions and institutions common to marketing systems.

**MAR 4054 Marketing for Non-Profit Organizations (ME)** (3)

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 (ME)** (3)

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.

**MAR 4153 Retailing Management (ME)** (3)

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.

**MAR 4154 Cases in Retailing Management (ME)** (3)

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 (ME)** (3)

The course focuses upon institutions, functions, and flows within channels of distribution; and their integration into channels systems. Wholesale and physical activity are emphasized. Same course as TRA 4203.

**MAR 4243 International Marketing (ME)** (3)

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 (ME)** (3)

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 (ME)** (3)

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 (ME)** (3)

The course deals with problems of decision-making in the areas of marketing communication methods, with primary emphasis on advertising.

**MAR 4344 Advertising Campaign Management (ME)** (3)

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 (ME)** (3)

The course offers an introduction to the analysis of the consumer, as the basis for the development of the marketing mix.

**MAR 4613 Marketing Research (ME)** (3)

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 4703 Current Issues in Marketing I (ME)** (3)

Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing.

**MAR 4704 Current Issues in Marketing II (ME)** (3)

Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 4703.

**MAR 4713 Cases in Marketing Management (ME)** (3)

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 (ME)** (3)

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 (ME)** (3)

A policy and operational analysis of legislative acts and judicial interpretations of laws influencing organizations engaged in marketing activities.

**MAR 4753 Marketing Game (ME)** (3)

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 4907 Independent Study in Marketing (ME)** (1-6)

Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

**MAR 4933 Special Topics in Marketing (ME)** (1-6)

For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**MAR 4941 Marketing Internship (ME)** (1-6)

Full-time supervised work in a selected organization. Prerequisites: At least twelve hours in marketing; consent of instructor and Department Chairperson.

**MAR 4949 Cooperative Education in Marketing (ME)** (3)

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 (ME)** (1-6)

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

**MAR 5935 Special Topics in Marketing (ME)** (1-6)

For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**MAR 6246 International Marketing (ME)** (3)

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.

**MAR 6346 Advanced Promotional Strategy (ME)** (3)

The course focuses on planning, problem-solving, and decision-making, as they apply to promotion programs. Primary emphasis is on advertising, with discussion of the role of promotion in relation to other elements of the marketing program.



**MAR 6506 Advanced Consumer Behavior (ME) (3)**

Modern comprehensive models of consumer behavior are utilized as a framework for understanding consumer decision processes.

**MAR 6617 Advanced Marketing Research (ME) (3)**

The role of research in providing information for marketing decision-making, including an examination of the research process and the tools available to the researcher.

**MAR 6706 Current Issues in Marketing I (ME) (3)**

Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing.

**MAR 6707 Current Issues in Marketing II (ME) (3)**

Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 6706.

**MAR 6716 Marketing Management (ME) (3)**

A study of analysis and application of theory and problem solving in marketing management. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

**MAR 6717 Advanced Marketing Management (ME) (3)**

Course emphasis is on application and integration of concepts and tools, through participation in the marketing management of a firm in competition with other firms. The course's focal point is a computerized marketing management simulation.

**MAR 6915 Independent Study in Marketing (ME) (1-6)**

Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

**MAR 6936 Special Topics in Marketing (ME) (1-6)**

For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**QMB 3150 Application of Quantitative Methods in Business (DS) (3)**

Inference and modeling for business decisions under uncertainty. Topics covered include survey sampling, confidence intervals and hypothesis testing for mean(s), variance(s), and proportion(s), chi-square test for independence and goodness of fit, correlation, linear regression, time series, and analysis of variance. Use of computer packages to solve real business problems. Prerequisites: College Algebra and STA 3132 or the equivalent.

**QMB 4680 Simulation of Management Systems (DS) (3)**

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: CIS 3000 and MAN 3503.

**QMB 4700 Principles of Operations Research I (DS) (3)**

Application of deterministic operations research models (such as linear and non linear programming, networks, dynamic programming, and branch and bound techniques) to managerial problems of allocation; planning and scheduling. Prerequisite: MAN 3503.

**QMB 4905 Independent Study in Decision Sciences (DS) (1-6)**

Individual conferences; supervised readings; reports on personal investigations. Consent of instructor and Department Chairperson required. P/F only.

**QMB 4930 Special Topics in Decision Sciences (DS) (1-6)**

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 instructor and Department Chairperson required. Grading option.

**QMB 6603 Quantitative Methods in Management (DS) (3)**

Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. Prerequisite: College Algebra.

**QMB 6805 Deterministic Models for Management Analysis (DS) (3)**

Applications of deterministic models (such as linear and nonlinear programming, network analysis (PERT), dynamic programming, and branch and bound algorithms) to managerial problems of allocation, planning, scheduling, investment, and control.

**QMB 6845 Simulation of Management Systems (DS) (3)**

Basic concepts of computer simulation of systems; application of these concepts to a variety of management problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis, heuristic methods, and Management games are covered. Prerequisites: MAN 6721 and a Computer Programming Language.

**QMB 6855 Stochastic Models for Management Analysis (DS) (3)**

Applications of probabilistic models (such as queuing, inventory, and renewal) to their managerial problems.

**QMB 6875 Stochastic Models for Project Management (DS) (3)**

Review of deterministic models and principles. Introduction to GERT, critical path methods,

criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics, and individual projects. Students use the computer, and existing programs, to analyze/simulate hypothetical project networks, and learn to interpret the results in order to facilitate operational decisions.

**QMB 6905 Independent Study in Decision Sciences (DS) (1-6)**

Individual conferences; supervised readings; reports on personal investigations. Consent of instructor and Department Chairperson required. P/F only.

**QMB 6930 Seminar in Decision Sciences (DS) (1-3)**

An examination of recent research findings in selected areas of current concern. Emphasis is placed in readings; active discussion; and small, short-term action and research projects. Consent of instructor required.

**QMB 6974 Project in Decision Sciences (DS) (1-6)**

Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College and approved by the Department Chairperson.

**REE 4043 Advanced Real Estate Fundamentals (FI) (3)**

Decision making processes for development, financing, marketing, and management of real estate within the framework of our governmental, economic, legal, and social systems; does not meet course content requirements of Florida Board of Real Estate for obtaining a real estate license. Prerequisite to all other courses in real estate and regional development.

**REE 4433 Legal Environment of Real Estate (FI) (3)**

Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; titles; conveyances; landlord and tenant; restrictions; zoning; and eminent domain; does not cover Florida Real Estate license law or licensing regulations of Florida Board of Real Estate; not a license "prep" course. Prerequisite: REE 4043.

**REE 4905 Independent Study in Real Estate (FI) (1-6)**

Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

**REE 4930 Special Topics in Real Estate (FI) (1-6)**

For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**REE 5105 Appraisal of Real Estate (FI) (3)**

Valuation and appraisal framework applied to residential and income producing property; role of computers; valuation theory and process as a guide to business decisions. Prerequisite: ACC 4043, or permission of instructor.

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

**REE 5207 Advanced Real Estate Finance (FI)** (3)  
Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for construction and permanent financing; portfolio problems; governmental programs; money and mortgage market analysis; computers and financial models.

**REE 5305 Real Estate Investment (FI)** (3)  
Advanced concepts of acquisition, ownership, and disposition of investment property; taxation and tax shelter; cash flow projection; analysis of specific types of investment property; utilization of computers as a decision-making tool; models of real estate investment analysis; case analysis and policy formulation.

**REE 5306 Real Property Analysis (FI)** (3)  
A study of the decision making processes of real property asset management. Private and public policy issues regarding the housing process and the regulation of the real property business environment. Legal considerations of real property ownership, financing and transfer of interest. Prerequisite: Consent of instructor.

**REE 5505 Real Estate Management (FI)** (3)  
Theories and techniques of professional management of real estate including such topics as creating a management plan; merchandising space; economics of alternatives; market analysis; the maintenance process; owner-tenant manager relations; operating budgets; tax consideration; ethics.

**REE 5715 Regional Real Estate Development (FI)** (3)  
Operation of real estate markets in land allocation; land use decision making in real estate; real estate feasibility studies, applied to specific real estate projects.

**REE 5734 Real Estate Land Development (FI)** (3)  
Real estate development, acquisition of raw land; zoning; subdivision into sites; provision of utilities and services; financing; merchandising of improved sites. Emphasis on design and development of residential communities.

**REE 5736 Real Estate Land Planning (FI)** (3)  
Theories of city growth and structure, operations of the real estate market in land allocation; current practices in real estate land planning.

**REE 5755 Real Estate and Regional Development Policy (FI)** (3)  
A capstone course in integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. Prerequisite: Permission of instructor.

**REE 5816 Real Estate Marketing (FI)** (3)  
Techniques of selecting, training, and compensating 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.

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

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

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

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

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

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

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

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

**REE 6932 Special Topics in Real Estate (FI)** (1-6)  
For groups of students desiring intensive studies of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**REE 6935 Seminar in International Real Estate (FI)** (3)  
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 (FI)** (3)  
Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by real estate faculty. Prerequisite: Permission of advisor.

**RMI 3015 Principles of Risk and Insurance (FI)** (3)  
Risk Management, Elements of Risk Theory and Risk Bearing. The Insurance Industry, fundamentals and legal concepts in insurance. Overview of property and liability as well as life insurance policies.

**RMI 4085 Introduction to International Insurance (FI)** (3)  
Economic analysis of insurance trade. Business operations. International Insurance Marketing, Underwriting Claims Adjustments and Settlements. International insurance funds flow and regulations. Issues in international insurance.

**RMI 4115 Life Insurance (FI)** (3)  
Structure and Purposes of Life Insurance. Types and analysis of life insurance contracts. Elementary life insurance mathematics. Fundamentals of private pensions and group insurance.

**RMI 4117 Personal Insurance Planning (FI)** (3)  
Analysis of methods of handling personal risk exposures including insurance coverage alternatives. Integrating life, health and accident, property and liability, profit-sharing; private and governmental insurance and pension programs. Prerequisite: RMI 3015.

**RMI 4120 Health Insurance (FI)** (3)  
The Economics of Health Insurance Types of Coverages; Marketing, Underwriting, Claims Adjustment and Administration. Private and Social Insurance programs. Regulations.

**RMI 4135 Employee Benefit Plans (FI)** (3)  
The concept of group insurance Marketing, Underwriting Claims Treatment and Administration of Group Policies. Establishment, Funding and Benefits of Private Pensions and Profit Sharing Plans. Prerequisite: RMI 4115.

**RMI 4145 Business Insurance and Estate Planning (FI)** (3)  
Essentials and Analysis of Estate Planning. Minimization and provisions for death transfer costs on estates and business interests.

**RMI 4170 Life and Health Insurance (FI)** (3)  
A review of life insurance contracts. Mathematics of Life Insurance. Fundamentals of Health Insurance. Life Insurance Accounting, Reserves, Operations and Investment. Prerequisite: RMI 4115.

**RMI 4212 Property and Liability Insurance (FI)** (3)  
Fundamentals and legal environment of Property and Liability Insurance. Major P-L insurance lines including Fire, Marine, Auto-



mobile, Worker's Compensation, Homeowners' and Liability; functions of P-L insurers.

**RMI 4220 Casualty Insurance (FI)** (3)  
A broad concept of casualty insurance, including a thorough review of basic policies; dailies; underwriting losses; multiple line and comprehensive forms. Subjects covered include personal liability insurance, boiler and machinery insurance, air insurance, inland and ocean marine insurance, workmen's compensation, and surety.

**RMI 4292 Property and Liability Insurance Operations (FI)** (3)  
In-depth study of the functions and operations of P-L insurers. Will include Marketing, Underwriting, Rate-making and Claims Functions. Also Loss Control Activities, Administration, Investment, Reinsurance and Regulation. Prerequisite: RMI 4212.

**RMI 4305 Risk Management (FI)** (3)  
The Elements of Risk Theory and Risk-Bearing. Risk Identification and Analysis. Methods for handling risks with quantitative analysis of available alternatives including Self-insurance and Captive insurance concepts.

**RMI 4405 Insurance Law (FI)** (3)  
Legal environment and essentials of insurance law. Legal and non-legal liabilities. Regulation of insurance in Florida.

**RMI 4500 Social Insurance (FI)** (3)  
The History and Economics of Social insurance programs. Definition of the needy. Comparative analysis of social insurance programs for death, occupational and non-occupational disability, old-age and unemployment.

**RMI 4740 Insurance Underwriting and Claims Adjustment (FI)** (3)  
Examination of an underwriter's and rater's functions: Selection of risks, classification and rating. Deductibles, Reinsurances. Claims philosophy and practice, Investigation, Adjustment and Settlements.

**RMI 4910 Independent Study in Insurance (FI)** (1-6)  
Supervised study of insurance or insurance related topics, developments, current issues and anticipated trends. Study may be designed to investigate a specialized area or adopt a more general approach. Consent of faculty supervisor and Department Chairperson required.

**RMI 4935 Special Topics in Insurance (FI)** (1-6)  
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the Curriculum. Consent of faculty supervisor and Department Chairperson required.

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

**RMI 5175 Life and Health Insurance (FI)** (3)  
A review of life insurance contracts. Mathematics of Life Insurance. Fundamentals of Health Insurance. Life Insurance Accounting, Reserves, Dividend, Non-forfeiture values. Operations and Investment.

**RMI 6055 Graduate Survey of Insurance (FI)** (1-6)  
Graduate examination of current problems in insurance, including theory, uses of insurance in business organizations; property and liability insurance; life and health insurance.

**RMI 6178 Mathematics of Life Insurance (FI)** (3)  
Present Values and Future Values of Lump Sums and Annuities. Mortality Tables Single Premiums, Annual Premiums and Net Level Premiums. Reserves, Nonforfeiture Values and Dividends. Prerequisite: MAC 3233 or equivalent.

**RMI 6912 Independent Study in Insurance (FI)** (1-6)  
Supervised study of insurance or insurance related topics, developments, current issues and anticipated trends. Study may be designed to investigate a specialized area or adopt a more general approach. Consent of faculty supervisor and Department Chairperson required.

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

**STA 3132 Quantitative Methods for Administration (MS)** (3)  
The use of statistical tools in management; introduction of probability, descriptive statistics, and statistical inference as included.

**TRA 4012 Transportation Logistics (ME)** (3)  
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 (ME)** (3)  
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 (ME)** (3)  
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 (ME)** (3)  
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.

**TRA 4320 Transportation Regulation (ME)** (3)  
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 (ME)** (3)  
Consideration of national transportation policy; the principal policy issues currently facing the transportation modes.

**TRA 4410 Air Transportation (ME)** (3)  
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 (ME)** (3)  
Application of management principles to airport operation, with emphasis on unique characteristic of airport finance; government relations and regulations; airline relations and interdependence.

**TRA 4412 Aircarrier Management (ME)** (3)  
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 (ME)** (3)  
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 (ME)** (1-6)  
Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

**TRA 4936 Special Topics in Transportation (ME)** (1-6)  
For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

**TRA 4941 Transportation Internship (ME)** (1-6)  
Full time supervised work in a selected organization. Prerequisites: At least twelve hours in transportation; consent of instructor and Department Chairperson required.

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

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

**TRA 6035 Graduate Survey of Transportation Management (ME)** (3)  
Graduate survey of transportation, its elements, and their impact on society. History, economics, and regulatory principles in transportation. Current policies and problems for all the major transportation modes.

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

**TRA 6936 Special Topics in Transportation (ME)** (1-6)  
For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

## College of Business Administration

**Dean** Charles A. Nickerson  
**Associate Dean** William W. Welch  
**Assistant Dean** Donald W. Fair  
**Assistant Dean** Anne M. Fiedler  
**Director, School of Accounting**  
**Chairpersons:** Rosalie C. Hallbauer  
*Decision Sciences* Steve H. Zankis  
*Finance & International Business* George B. Simmons  
*Management* Enzo R. Valenzi  
*Marketing* William T. Jerome  
**Bay Vista Coordinator** Sydney Roslow

## Faculty

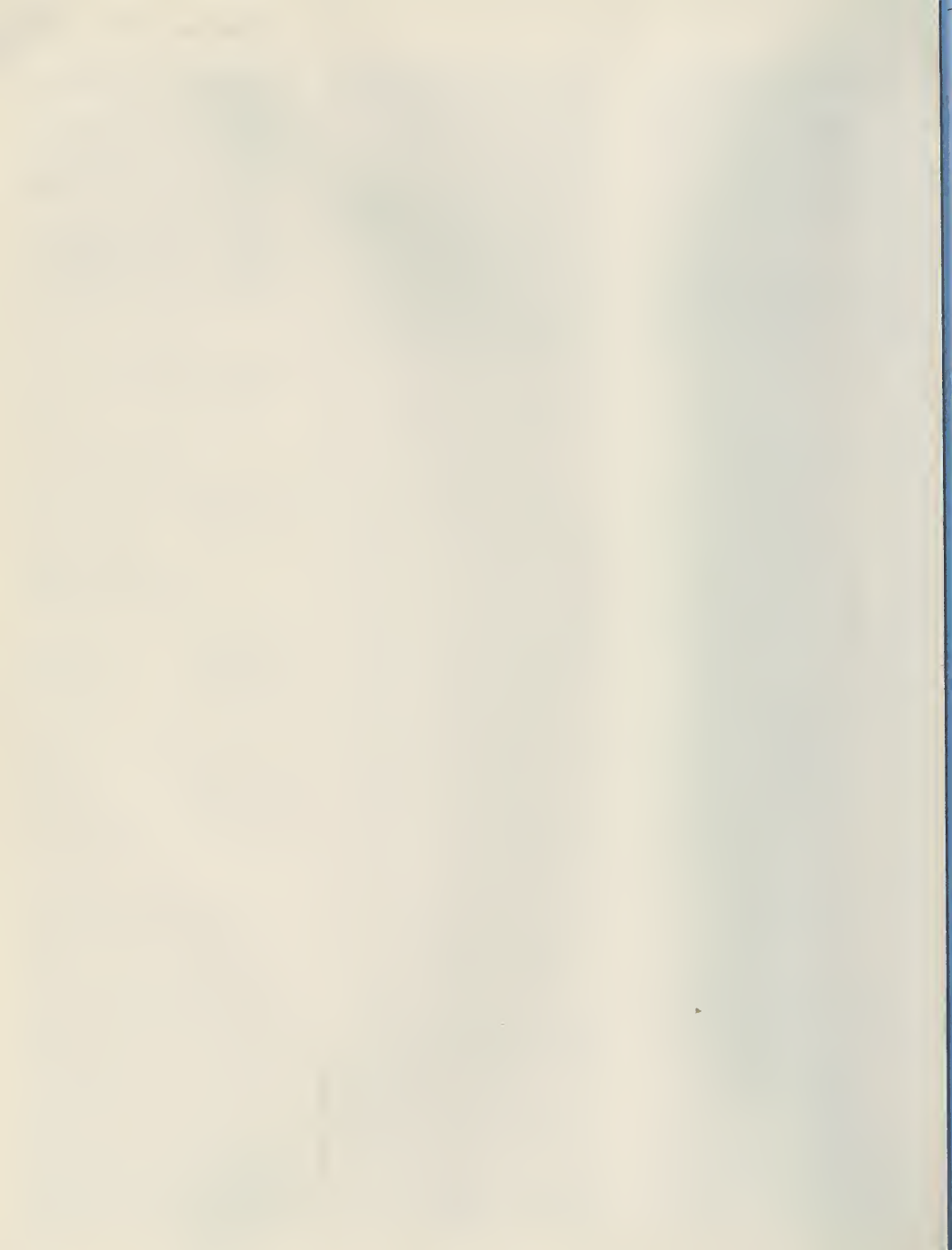
**Afentakis, Panos, Ph.D.** (University of Rochester), Assistant Professor, Decision Sciences  
**Altman, Steven, D.B.A.** (University of Southern California), Associate Professor, Management, Provost, and Vice President for Academic Affairs  
**Anyane-Ntow, Kwabena, Ph.D.** (University of Georgia), Assistant Professor, Accounting  
**Apasu, Yao, Ph.D.** (University of Southern California), Assistant Professor, Marketing  
**Auster, Rolf, Ph.D.** (Northwestern University), CPA, CMA, Professor, Accounting  
**Awad, Elias, D.B.A.** (University of Kentucky), Professor, Decision Sciences  
**Bear, Robert M., Ph.D.** (University of Iowa), Visiting Professor, Finance and International Business

**Beaton, William R., Ph.D.** (Ohio State University), Professor, Finance and International Business  
**Belloit, Jerry, Ph.D.** (University of Florida), Assistant Professor, Finance and International Business  
**Belzer, Jack, BSEE** (Cooper Union), Visiting Lecturer, Decision Sciences  
**Campfield, William, Ph.D.** (University of Illinois), CPA, Visiting Professor, Accounting  
**Carter, Jack L., Ph.D.** (University of Cincinnati), Assistant Professor, Accounting  
**Challacombe, Wesley, MBA** (University of Miami), Instructor, Decision Sciences  
**Chang, Lucia S., Ph.D.** (University of Texas at Austin), Professor, Accounting  
**Daigler, Robert T., Ph.D.** (The University of Oklahoma), Associate Professor, Finance and International Business  
**Dessler, Gary, Ph.D.** (City University of New York), Professor, Management  
**Diguez, Manuel, MSM** (Florida International University), CPA, Instructor, Accounting  
**Dorsett, Herman W., Ed.D.** (Columbia University), Associate Professor, Management  
**Espahbodi, Hassan, Ph.D.** (University of Alabama), Assistant Professor, Accounting  
**Espahbodi, Reza, Ph.D.** (University of Alabama), Assistant Professor, Accounting  
**Ewedemi, Soga, Ph.D.** (University of Pennsylvania), Assistant Professor, Finance and International Business  
**Fair, Donald W., M.Acc.** (Bowling Green State University), CPA, Instructor, Accounting and Assistant Dean  
**Fantl, Irving L., Ph.D.** (New York University), CPA, Professor, Accounting  
**Farrow, Dana, Ph.D.** (University of Rochester), Associate Professor, Management  
**Fiedler, Anne, MBA** (University of Miami), Instructor, Marketing and Assistant Dean  
**Friday, Earnest, Ph.D.** (University of Miami), Assistant Professor, Management  
**Gart, Alan, Ph.D.** (University of Pennsylvania), Professor, Finance and International Business  
**Hallbauer, Rosalie C., Ph.D.** (University of Florida), CPA, C.M.A., Associate Professor, and Director, School of Accounting  
**Hendrickson, Harvey S., Ph.D.** (University of Minnesota), CPA, Professor, Accounting  
**Hennart, Jean-Francois, Ph.D.** (University of Maryland), Associate Professor, Finance and International Business  
**Hodgetts, Richard M., Ph.D.** (University of Oklahoma), Professor, Management  
**Hogner, Robert H., Ph.D.** (University of Pittsburgh), Associate Professor, Marketing  
**Jerome, William T., III, D.C.S.** (Harvard University), Distinguished University Professor, Management and Acting Chairperson, Marketing

**Johnson, Vance R., M.S.** (Georgia State University), Assistant Professor, Finance & International Business  
**Jordan, Willabeth, MPA** (Florida International University), Instructor, Management, and Director of Training, Center for Management Development  
**Kranendonk, Carl J., M.B.A.** (University of Tulsa), Visiting Instructor, Marketing  
**Kroec, K. Galen, Ph.D.** (University of Akron), Assistant Professor, Management  
**Lavin, David, Ph.D.** (University of Illinois), CPA, Associate Professor, Accounting  
**Lubell, Myron, D.B.A.** (University of Maryland), CPA, Associate Professor, Accounting  
**Luytjes, Jan B., Ph.D.** (University of Pennsylvania), Professor, Marketing  
**Magnusen, Karl O., Ph.D.** (University of Wisconsin), Associate Professor, Management  
**Mayville, William, MBA** (Florida International University), Instructor, Marketing, and Associate Director Bureau of Business Research  
**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  
**Nicholls, J.A.F., D.B.A.** (Indiana University), Associate Professor, Marketing  
**Nickerson, Charles A., Ph.D.** (University of Georgia), CPA, Professor, Accounting, and Dean  
**Nunez, Leandro S., M.B.A.** (Roosevelt University), CPA, Instructor, Accounting  
**Oliva, Robert B., J.D.** (Whittier College), Assistant Professor, Accounting  
**Ortiz, Marta, Ph.D.** (University of Miami), Assistant Professor, Marketing  
**Parhizgari, Ali, Ph.D.** (University of Maryland), Assistant Professor, Finance and International Business  
**Polster, Eleanor, M.B.A.** (Florida International University), Instructor, Management  
**Prakash, Arun, Ph.D.** (University of Oregon), Associate Professor, Finance and International Business  
**Prakash, Ved, D.B.A.** (The University of Tennessee), Assistant Professor, Marketing  
**Raheem, Lynda, M.B.A.** (University of Miami), Instructor, Marketing, and Coordinator of Graduate Programs  
**Robey, Daniel, D.B.A.** (Kent University), Professor, Management  
**Rodriguez, Leonardo, D.B.A.** (Florida State University), Associate Professor, Accounting and Management  
**Roslow, Sydney, Ph.D.** (New York University), Associate Professor, Marketing  
**Roussakis, Emmanuel, Ph.D.** (Catholic University of Louvain, Belgium), Professor, Finance and International Business  
**Salzer, Willard, MA** (University of Colorado), Visiting Lecturer, Marketing



- Seaton, Bruce, Ph.D. (*Washington University*), Associate Professor, Marketing
- Shapiro, Gloria, Ph.D. (*University of Miami*), Assistant Professor, Management
- Shepherd, Philip, Ph.D. (*Vanderbilt University*), Assistant Professor, Marketing
- Silbey, Valdur, Ph.D. (*University of Pennsylvania*), Associate Professor, Decision Sciences
- Simmons, George B., D.B.A. (*Indiana University*), Distinguished Service University Professor and Chairperson, Finance and 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, Decision Sciences, and Director, Center for Management Development
- Sokolowski, Theodor, M.S.M. (*Florida International University*), M.B.A. (*Florida Atlantic University*), CPA, Instructor, Accounting
- Solis, Rafael, Ph.D. (*University of Waterloo*), Assistant Professor, Decision Sciences
- Sutija, George, M.B.A. (*Columbia University*), Associate Professor, Finance and International Business
- Taggart, William M., Ph.D. (*University of Pennsylvania*), Professor, Management
- Turban, Efraim, Ph.D. (*University of California at Berkeley*), Professor, Decision Sciences
- Valenzi, Enzo R., Ph.D. (*Bowling Green University*), Professor and Chairperson, Management
- Vogel, Ronald H., Ph.D. (*University of Michigan*), Associate Professor, Marketing
- Welch, William W., Ph.D. (*University of Michigan*), Associate Professor, Finance and Associate Dean
- Yeaman, Doria, J.D. (*University of Tennessee*), Lecturer, Accounting
- Zanakis, Steve H., Ph.D. (*Pennsylvania State University*), Professor and Chairperson, Decision Sciences





# School of Education

## School of Education

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 School of Education continuously reviews all its degree and certificate programs. Program requirements are published by each Division and are available to students seeking admission into programs. These requirements may not be reflected in the current catalog. Students are advised to contact the Division of the major program for current information.) The range of programs includes elementary education, early childhood education, curriculum and instruction in the various specialties in secondary education, adult education, educational administration and supervision, bilingual education, technical and vocational education, psycho-education, urban education, community college education, human resources development, special education, counselor education, and teacher education.

Advisement services are available by telephone (305) 554-2721, Tamiami Campus or (305) 940-5820, (305) 523-4422 (Broward), Bay Vista Campus, by correspondence, or by prearranged visit with counselors at the Bay Vista or Tamiami Campus.

The School of Education serves county and state education agencies in in-service 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, 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; 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.

*Note: The programs, policies, requirements and regulations listed in this catalog are con-*

*tinually subject to review, in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. This mini-catalog contains the specific programs and policies of the School, please refer to the General Information section for the University's policies, requirements, and regulations.*

### General Program Design

#### Undergraduate Studies

Undergraduate courses offered by the School of Education are designed to be performance or competency-based, and field-based for professional service in education and training.

Typically, undergraduate students will complete 60 semester hours of study at the University, including a residency requirement of 30 semester hours prior to graduation. Prior to formal admission to the University, a student may elect to take 15 credits as a non-degree seeking student which, if applicable to the major field of study and approved by an advisor, 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 must be completed prior to graduation from the 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 undergraduate 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 common courses:

- EDF 3827 Schooling in America (3)
- EDG 3321 General Teaching Lab I: Basic Teaching Skills (3)
- EDG 3321L General Teaching Lab I: Laboratory (2)
- EDG 3322 General Teaching Lab II: Human Relations Skills (3)

Subsequent special teaching laboratories and courses build on these core courses to extend and refine understandings and skills. All programs include one full semester of student teaching.

Bachelor degree programs typically require coursework in the College of Arts and Sciences or in one of the other Colleges or 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 makes the student eligible for a Florida Teacher Certificate in the field of specialization.

### Florida State Teacher Certification Examination

Under current Florida legislation, teacher education graduates seeking Florida teacher certification, are required to take and pass the

Florida State Teacher Certification Examination which covers the areas of reading, writing, mathematics and professional education. Students must successfully complete each of the four sections of the examination to qualify for teacher certification. School of Education students are required to present, in the final six months of their program, an affidavit signed by the Dean to register for the Teacher Certification Examination prior to graduation.

### Graduate Studies (Master, Specialist, and Doctoral Programs)

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 30 semester hours of study at the University to earn a Master of Science in Education degree. The programs in Counselor Education and School Psychology require 60 semester hours. As a general rule, a student may transfer six semester hours taken at another accredited college or university toward a 30 semester hour master's degree program, and nine hours toward a 60 hour program at the University. Also, prior to formal admission to the University, a student may elect to take 12 semester hours as a non-degree seeking student which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Doctoral and specialist students pursue courses in cooperative programs offered by Florida International University, Florida State University, the University of Florida, and Florida Atlantic University.

**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 6336 will be required as part of the degree program.

### Undergraduate Admission Requirements

To ensure quality program standards as part of its responsibility in providing teachers to school systems, the School of Education has instituted program modifications and more rigorous admission qualifications in addition to the University's admission requirements. Effective January 1982, these include:

#### A. Testing

1. Satisfactory completion of a battery of basic skills tests (reading, mathematics and English structure) administered during students' first semester in attendance will be a condition for candidacy for graduation.



2. Should a student not meet the criterion level for any component of the tests, remedial action recommended by the test examiner must be completed. Additionally, enrollment in professional education courses may be denied.

- B. Lower Division prerequisites:**  
All freshman and sophomore prerequisites for admission into an academic program must be satisfied with a minimum grade of "C" before admission is completed.
- C. Grade Point Average**  
All applicants to the School of Education must have at least a 2.0 grade point average in all previous college level studies.
- D. Distribution of Lower Division coursework (effective 1983-84):**  
Students must have completed a minimum of 60 semester hours in general education requirements, with the following distribution:
- (1) English 12 semester credits
  - (2) Mathematics\* 9 semester credits
  - (3) Humanities 6 semester credits
  - (4) Natural Science 6 semester credits
  - (5) Social Science 12 semester credits
  - (6) Public Speaking 3 semester credits
- \*Includes one course in computer/awareness/computer application
- E. Transfer Credits**  
1. Only grades of "C" or better can be considered acceptable as transfer credits to the University.  
2. Transfer students who have been dismissed from another college or university must appear for an interview before the admission can be processed.
- F. SAT (ACT) requirements**  
All teacher education candidates entering at the junior level must present a minimum score of 835 on the SAT, or 17 on the ACT.
- G. Beginning July 1, 1982, applicants for a Florida regular teaching certificate must have completed three years of satisfactory teaching or the Beginning Teacher Program approved by the Department of Education.**

## Graduate Admission Requirements

An applicant for admission to a master's degree must meet the existing criteria set forth by the Board of Regents.

An applicant for admission to a doctoral degree should consult with the appropriate advisor for admission information.

## SOE Grading Policies

**Undergraduate** students must maintain an overall GPA of 2.0 in order to graduate. The grade of "D" is not acceptable toward graduation in any required program of study course, be it in the School of Education or any other unit of the University. Further, a student will not be approved for student teaching with a grade of "D" in any required program of study course.

**Graduate** students must maintain an overall GPA of 3.0 in order to graduate. Further, no more than two "C" grades and no "D" grades

received in courses that are a part of a master's degree program of study will be accepted toward graduation.

## Bay Vista Campus and Broward Center

The School of Education has programs of studies at Bay Vista Campus to specifically serve undergraduate and graduate students of North Dade County and the southern half of Broward County. In addition to courses offered at the Bay Vista, courses are also offered in conjunction and cooperation with Broward County Community College. Broward residents interested in information regarding the Bay Vista or Broward County course offerings should call the School of Education (305) 948-6747 or 523-4422. All Dade County residents should call (305) 940-5820.

The following programs are offered at Bay Vista or Broward Center or both:

1. Elementary Education — bachelor's and master's degrees
2. Early Childhood Education — area of concentration
3. Reading Education — master's degree
4. Administration/Supervision — master's degree
5. School Administration and Curriculum & Instruction: Instructional Leadership — Education Specialist and Doctor of Education degrees (offered cooperatively with the University of Florida)
6. Psycho — Educational Services — bachelor's and master's degrees
7. Physical Education — master's degree
8. Adult Education — master's degree
9. Health Occupations Education, bachelor's and master's degrees
10. Bilingual Education — area of concentration
11. Courses common to all education undergraduate majors (core courses: EDF 3827 — Schooling in America; EDG 3321 — Special Teaching Laboratory I — Basic Teaching Skills; EDG 3321L — Laboratory; EDG 3322 — Special Teaching Laboratory II — Human Relations Skills; and reading courses required by the State at elementary and secondary levels)

Through the School of Education, additional services are available at the Bay Vista Campus. The following research projects and activities are based at the Bay Vista Campus:

1. Cooperative Education Specialist and Doctor of Education program in School Administration and Curriculum and Instruction: Instructional Leadership (with the University of Florida)
2. Cooperative doctoral program in Adult Education (with Florida State University)
3. Cooperative doctoral program in Community College Instruction with Florida Atlantic University (pending)
4. The American Association of Schools in South America
5. A diagnostic reading clinic is available to children who are in need of assessment. Graduate students are provided experience in the diagnosis and prescription of children who are referred to the clinic.

## Division of Childhood Education

Edythe Margolin, *Professor and Acting Chairperson*

Richard L. Campbell, *Professor*

George S. Morrison, *Professor*

Nicholas J. Vigilante, *Professor*

Arthur D. Dempsey, *Associate Professor*

Sharon W. Kossack, *Associate Professor*

Grover C. Mathewson, *Associate Professor*

Edward M. Reichbach, *Associate Professor*

Emma W. Rembert, *Associate Professor and Assistant Dean*

Zola J. Sullivan, *Associate Professor*

Nancy Marshall, *Assistant Professor*

Alicia Mendoza, *Assistant Professor*

John Stinson, Jr., *Assistant Professor*

## Elementary Education, Grades 1-6

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required: 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 prior to enrollment in requisite courses at the University with a grade of "C" or better.

SPECIFIC

PROGRAM PREREQUISITES:

Overall GPA of at least 2.0, and SAT of 835 or ACT of 17

GENERAL EDUCATION Semester Hours

Mathematics 6

MAE 4810 and MAE 4811 or College Algebra

Physical Science 3

GLY 3106 or PSC 3001 or BOT 3800

Biological Science 3

BSC 1010 or BSC 3033 or BSC 3023

Art course 3

Music course 3

UPPER DIVISION PROGRAM:

Elementary Education:

*Tasks Observation and Participation (TOP)*

A student must complete TOP experiences in an elementary public school concurrent with all special methods or program courses.

**Internship I**

Students are required to spend a minimum of two hours per week in an assigned elementary public school for each of the internship courses.

**Internship II**

This is a full time commitment for one semester after all other program courses have been completed successfully with a grade of "C" or better. Student must make an application and register for this course. Internship II is not offered in the summer term.

Semester Hours

Core Courses

EDF 3827 Schooling in America 3

EDG 3321 General Teaching Laboratory I 3

EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3
		<hr/> 11

## Program Courses

ARE 3313	Experiencing Art in the Elementary School	3
or		
MUE 3313	Experiencing Music in the Elementary School	3
EDE 4451C	Evaluation in the Elementary School	3
HLP 3013	Health and Physical Education for Children	3
LAE 4314	Communication Skills II	3
MAE 4312	Inquiry in the Mathematics in the Elementary School	3
RED 4310	Communication Skills I	3
RED 4311	Communication Skills III	3
SCE 4310	Inquiry in Science in the Elementary School	3
SSE 4312	Inquiry in Social Studies in the Elementary School	3
		<hr/> 27

## Guided Electives

9  
 Internship I-A, I-B and I-C (to be taken with Program Courses above):

EDE 4940	Internship I-A	1
EDE 4941	Internship I-B	1
EDE 4942	Internship I-C	1
		<hr/> 3

Students desiring certification in Early Childhood Education and using Early Childhood as an area of electives must complete 11 semester hours in the courses outlined below (which are only two more credits than the nine credits shown for Elementary Education majors):

EEC 4203	Curriculum and Instruction in Early Childhood Education	3
EEC 4301	Early Childhood Education Programs	3
EEC 4611	Trends in Early Childhood Education	3
EEC 4940	Internship I-A	1
EEC 4941	Internship I-B	1
		<hr/> 11

Student Teaching Block: All lower division, prerequisites, and program requirements must be completed before taking this Block:

EDE 4943	Internship II	12
EDE 4936	Senior Seminar in Elementary Education	3
		<hr/> 15

TOTAL SEMESTER HOURS FOR  
 ELEMENTARY EDUCATION MAJORS 65

TOTAL SEMESTER HOURS FOR  
 EARLY CHILDHOOD EDUCATION  
 CERTIFICATION STUDENTS 67

## Graduate Programs

The Division of Childhood Education offers masters programs in: Elementary Education, Early Childhood Education, and Reading Education. Completion of the Master's degree qualifies a person for instruction and/or curriculum leadership positions. The programs are designed to acquaint teachers with contemporary research and programs, and to refine the teaching skills of persons employed in elementary and middle schools.

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 36 semester hours of course work. Six semester hours of graduate study from another accredited college or university may be transferred if applicable to the student's program.

GRADUATE COURSES TAKEN SEVEN YEARS PRIOR TO THE YEAR OF ADMISSION TO THE UNIVERSITY CANNOT BE APPLIED TOWARD THE GRADUATE DEGREE.

ALL GRADUATE STUDENTS MUST ATTEND AT LEAST ONE OF THE RESEARCH SEMINARS EACH SEMESTER PRESENTED BY THE SCHOOL OF EDUCATION RESEARCH SEMINAR SERIES.

## Elementary Education

Applicants for admission to the Master's program in Elementary Education must: (1) hold or qualify for Florida certification or equivalent in elementary education, and (2) satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: Grade Point Average (GPA) of 3.0 or 1000 on Graduate Record Examination (GRE). The applicants must submit GRE scores.

DEGREE: Master of Science

Semester Hours

## Required Courses:

EDE 6205	Curriculum Design for Childhood Education	3
EDE 6225	Educational Program for Older Children	3
EDF 5430	Measurement and Evaluation in Education	3
EDF 5481	Analysis and Application of Educational Research	3
RED 6155	Instruction in Reading	3
Psychology or Sociology course (consult advisor)		3
		<hr/> 18

## Specialization Courses:

Courses to be selected from among Elementary course listings, in consultation and with approval of advisor.		18
		<hr/> Total 36

## Early Childhood Education

Applicants for admission to the Master's program in Early Childhood Education must: (1) hold or qualify for Florida certification or equivalent in elementary education, and (2) satisfy requirements for scholastic aptitude as determined by the graduate admissions standards: Grade Point Average (GPA) of 3.0 or 1000 on Graduate Record Examination (GRE). The applicants must submit GRE scores.

DEGREE: Master of Science

Semester Hours

## Required Courses:

EDE 6205	Curriculum Design for Childhood Education	3
EDF 5430	Measurement and Evaluation in Education	3
EDF 5481	Analysis and Application of Educational Research	3
EEC 6205	Education Programs for Younger Children	3
RED 6305	Instruction in Reading	3
Psychology or Sociology course (consult advisor)		3
		<hr/> 18

## Specialization Courses:

Courses to be selected from among Early Childhood course listings, in consultation and with approval of advisor

18

Total 36

## Reading

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 program in Reading Education are: (1) completion of an appropriate undergraduate teacher education program, (2) satisfactory scholastic aptitude, as determined by the graduate admission standards: Grade Point Average (GPA) of 3.0 or 1000 on Graduate Record Examination (GRE); the applicants must submit GRE scores, and, (3) three years of teaching experience after completion of the undergraduate degree.

DEGREE: Master of Science

Semester Hours

## Required Courses:

EDE 6205	Curriculum Design for Childhood Education	3
EDF 5430	Measurement and Evaluation in Education	3
EDF 5481	Analysis and Application of Educational Research	3
RED 6155/	Instruction in Reading	3
RED 6305		



RED 6515	Programs of Remediation in Reading	3
RED 6546	Diagnosis of Reading Difficulty	3
	Psychology or Sociology course (consult advisor)	3
<b>Specialization Courses:</b>		
	Courses to be selected from among Reading course listings, in consultation and with approval of advisor	15
		<b>Total 36</b>

## Thesis Track

(Elementary Education/Early Childhood Education/Reading Education)

This master's thesis track provides a special foundation for doctoral degree program entrance. Admission requirements for this program will be higher than those for the other master's programs described above. Planned for implementation beginning Fall 1982.

<i>Semester Hours</i>		
<b>Required Courses:</b>		
EDE 6205	Curriculum Design for Childhood Education	3
EDF 5430	Measurement and Evaluation in Education	3
EDF 5481	Analysis and Application of Educational Research	3
Research	(EDE 6488 or EEC 6678 or RED 6747)	3
Seminar	(EDE 6930 or EEC 6932 or RED 6931)	3
RED 6155/ RED 6305	Instruction in Reading	3
	Psychology or Sociology course (consult advisor)	3
	Thesis: (EDE 6971 or EEC 6971 or RED 6971)	6
<b>Specialization Courses:</b>		
	Courses to be selected from among course listings in either early childhood education, elementary education, or reading education, depending upon major	9
		<b>Total 36</b>

## Specialist in Education and Doctor of Education Degrees

Preliminary feasibility discussions are being conducted for possible establishment of a Specialist in Education degree and a Doctor of Education degree in cooperation with other institutions in the areas of Reading and Language Development, Early Childhood Education, and Elementary Education. Presently, an approved educational specialist and doctoral program for curriculum and instruction exists in cooperation with the University of Florida.

## Course Descriptions

### Definition of Prefixes

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 — Science Education; SSE — Social Studies Education.

**TASKS, OBSERVATION AND PARTICIPATION (TOP) ARE REQUIRED IN DESIGNATED PUBLIC SCHOOLS TWO HOURS PER WEEK, CONCURRENT WITH EACH UNDERGRADUATE METHODS COURSE.**

### ARE 3313 Experiencing Art in The Elementary School (3)

Designed to provide the student with competencies necessary for the development and implementation of art experiences in the elementary curriculum. Prerequisite: Art course.

### ARE 6304 Instruction in Art (Early Childhood) (3)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

### ARE 6315 Instruction in Art (Elementary) (3)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

### EDE 4451C Evaluation in Elementary Education (3)

Designed to provide the Childhood Education pre-service teacher with knowledge and practical approaches to evaluation in the Elementary School.

### EDE 4925 Workshop in Elementary Education (1-3)

An opportunity for students to continue to develop competency in a specified area of elementary education. No prerequisites.

### EDE 4936 Senior Seminar in Elementary Education (3)

A seminar designed for student teachers covering topics related to classroom management, discipline, school community relations, professional problems and issues. Corequisite: EDE 4943.

### EDE 4940 Internship 1-A: Elementary Education (1)

A first introductory experience in observing and performing tasks in a public school elementary classroom. Corequisites: EDF 3827, EDG 3321, EDG 3322.

### EDE 4941 Internship 1-B: Elementary Education (1)

A second introductory experience in observing and performing tasks in a public school elementary classroom. Prerequisites: EDF 3827, EDG 3321, EDG 3322, EDE 4940.

### EDE 4942 Internship 1-C: Elementary Education (1)

A third introductory experience in observing and performing tasks in a public school elementary classroom. Prerequisites: EDF 3827, EDG 3321, EDG 3322, EDE 4940, EDE 4941.

### EDE 4943 Internship II (12)

A field experience in an elementary school where the student serves as a teacher associate, demonstrating competencies acquired throughout the program. Prerequisites: ARE 3313 or MUE 3313, EDE 4451C, EDE 4936, HLP 3013, LAE 4314, MAE 4312, RED 4310, RED 4311, SCE 4310, SSE 4312. Corequisite: EDE 4936.

### EDE 5267 Education of the Child in Urban Society (3)

For students desiring advanced study in the schooling of inner-city pupils in K-6. Prerequisites: EDF 3827, EDG 3321, EDG 3322.

### EDE 5905 Individual Study in Elementary Education (1-3)

Individual investigation in the area of instruction in elementary education. Permission of instructor required.

### EDE 6205 Curriculum Design for Childhood Education (3)

A study of curriculum theory, construction, and evaluation.

### EDE 6225 Education Programs for Older Children (3)

Program developed for older children; curriculum trends based on contemporary psychological, educational and sociological research.

### EDE 6678 Research in Elementary Education (3)

Expose students to research in elementary education and the paradigms associated with this research. Teach students to be critical readers of this research. Prepare students for thesis. Prerequisite: EDF 5481.

### EDE 6925 Workshop in Elementary Education (1-3)

An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in elementary education.

### EDE 6930 Seminar in Elementary Education (3)

Advanced study of critical issues and problems in elementary education.

### EDE 6948 Supervised Field Experience in Elementary Education (3-9)

Field work in education institutions and organizations in elementary education.

### EDE 6971 Thesis in Elementary Education (6)

Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDF 5430, EDE 6488, and consent of instructor. Corequisites: EDE 6930.

### EEC 4203 Curriculum and Instruction in Early Childhood Education (3)

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** (3)

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** (3)

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** (1-3)

An opportunity for students to continue to develop competency in a specified area of early childhood education. No prerequisites.

**EEC 4940 Internship I-A: Early Childhood Education** (1)

A first introductory experience in observing and performing tasks in a public school early childhood classroom.

**EEC 4941 Internship I-B: Early Childhood Education** (1)

A second introductory experience in observing and performing tasks in a public school early childhood classroom.

**EEC 5906 Individual Study in Early Childhood Education** (1-3)

Individual investigation in the area of in-preschool and early childhood education. Permission of instructor required.

**EEC 6205 Education Programs for Younger Children** (3)

Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research.

**EEC 6612 Screening and Assessing for Assignment of Preventative, Developmental and Enrichment Strategies for Primary Children** (3)

Designed to assist the primary teacher and primary specialist to understand the processes of and methods for screening, assessing and assignment of preventative, developmental and enrichment strategies for primary children.

**EEC 6678 Research in Early Childhood Education** (3)

Expose students to research in early childhood education and the paradigms associated with this research. Teach students to be critical readers of this research. Prepare students for thesis. Prerequisite: EDF 5481.

**EEC 6926 Workshop in Early Childhood Education** (1-3)

An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in preschool and early childhood education.

**EEC 6932 Seminar in Early Childhood Education** (3)

Advanced study of critical issues and problems in preschool and early childhood education.

**EEC 6948 Supervised Experience in Early Childhood Education** (3-9)

Field work in educational institutions and organizations in preschool and early childhood education.

**EEC 6971 Thesis in Early Childhood Education** (6)

Design and preparation of an original scholarly investigation in early childhood education. Prerequisites: EDF 5481, EDF 5430, EEC 6678, and consent of instructor. Corequisites: EEC 6932.

**FLE 4151 Bilingual School Curriculum and Organization** (3)

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** (3)

Development of instructional skills, techniques, and strategies for teaching Spanish to non-native speakers of Spanish in the elementary school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, and Spanish proficiency.

**FLE 4871 Teaching Spanish to Speakers of Spanish** (3)

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, and Spanish proficiency.

**HLP 3013 Health and Physical Education for Children** (3)

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** (3)

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. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4310.

**LAE 4851 Teaching English as a Second Language** (3)

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** (3)

Designed to develop a critical analysis of the purposes, strategies for teaching, and evaluation of literature for children. Prerequisites: RED 4310 and LAE 4314, or their equivalent.

**LAE 6305 Instruction in Language Arts (Early Childhood)** (3)

Refinement of skills related to program development, methods of teaching, selection of materials and review of research in preschool and early childhood education.

**LAE 6355 Instruction in Language Arts (Elementary)** (3)

Refinement of skills related to program development, methods of teaching, selection of materials and review of research in elementary education.

**MAE 4312 Inquiry in Mathematics in the Elementary School** (3)

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** (3)

Strategies for studying symptoms, causes, and consequences of difficulties experienced by children in elementary school mathematics. Includes supervised case study and theoretical models. Prerequisite: MAE 4312.

**MAE 6305 Instruction in Mathematics (Early Childhood)** (3)

Refinement of skills related to program development, methods of teaching, selection of materials and review of research, in preschool and early childhood education.

**MAE 6318 Instruction in Mathematics (Elementary)** (3)

Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

**MAE 6645 Workshop on Metric Education** (1-3)

A workshop on Metric Education: trends, teaching strategies, programs, and materials.

**MAE 6923 Workshop: Elementary School Mathematics** (3)

Production and application of materials and strategies for teaching mathematics in elementary and middle schools.

**MUE 3313 Experiencing Music in the Elementary School** (3)

Designed to provide the student with competencies necessary for the development and implementation of music experiences in the elementary curriculum. Prerequisite: Music course.

**MUE 6305 Instruction in Music (Early Childhood)** (3)

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)** (3)

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** (3)

Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of reading. Prerequisite: Permission of instructor required.



**RED 4311 Communication Skills III** (3)  
Designed to implement and expand upon the teaching competencies developed in LAE 4314 and RED 4310, in a classroom management practicum. Prerequisites: EDF 3827, EDG 3321, EDG 3322, LAE 4341.

**RED 4925 Workshop in Reading Education** (1-3)  
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** (3)  
Exploration, creation and evaluation of basic reading materials, commercial and non-commercial. Prerequisite: RED 4310 or equivalent.

**RED 5911 Individual Study in Reading** (1-3)  
Individual investigation in the area of instruction. Permission of instructor required.

**RED 6155 Instruction in Reading (Elementary)** (3)  
Refinement of skills related to program development, methods of teaching, selection of materials, and review of research in elementary education.

**RED 6247 Organization and Supervision of Reading Program** (3)  
The organization and supervision of reading programs; problems of organization and supervision; continuity of school-wide programs, emphasis on leadership responsibilities. Prerequisites: EDF 5481, EDF 5430

**RED 6305 Instruction in Reading (Early Childhood)** (3)  
Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

**RED 6336 Reading in the Content Areas** (3)  
Strategies for developing the reading abilities of students in specific subject areas. Stresses vocabulary and comprehension development, study skills, library usage, reasoning, and motivating reading. Prerequisites: None.

**RED 6338 High School Reading Programs** (3)  
Designed to provide competencies for identifying, organizing, teaching, and evaluating secondary reading programs. Corrective and accelerated reading are emphasized. Prerequisite: RED 6155 or RED 6305.

**RED 6515 Programs of Remediation in Reading** (3)  
A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques. Prerequisites: RED 6155 or 6305, RED 6546, or their equivalents.

**RED 6546 Diagnosis of Reading Difficulty** (3)  
Technique for analyzing and clarifying reading difficulties. Prerequisite: RED 6155 or 6305, or its equivalent.

**RED 6747 Research in Reading** (3)  
A course to study significant research in reading, and research methodology. Involves planning and research in reading. Permission of

instructor required. Prerequisites: EDF 5430, EDF 5481.

**RED 6805 Practicum in Reading** (3)  
An analysis of reading difficulties, through various teaching techniques and programs.

**RED 6845 Clinical Procedures in Reading** (3)  
Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting. Prerequisites: RED 6515, RED 6546.

**RED 6925 Workshop in Reading** (1-3)  
An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in reading education.

**RED 6926 Workshop in Reading and Language Arts** (1-3)  
Offers opportunities for elementary school teachers to increase their understanding of reading/language arts instruction, K-6. Emphasis on integrating language arts into reading.

**RED 6971 Thesis in Reading Education** (6)  
Design, implementation, and written report of an original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor.

**SCE 4310 Inquiry in Science in the Elementary School** (3)  
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, one Physical Science, one Biological Science.

**SCE 6306 Instruction in Science (Early Childhood)** (3)  
Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

**SCE 6315 Instruction in Science (Elementary)** (3)  
Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

**SCE 6930 Workshop in Content, Methods, and Materials of Teaching Elementary Science** (1-3)  
Focus on content, methods, and materials needed for teaching science in the elementary school, K-6.

**SSE 4312 Inquiry in Social Studies in the Elementary School** (3)  
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.

**SSE 6305 Instruction in Social Learning (Early Childhood)** (3)  
Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood education.

**SSE 6355 Instruction in Social Learning (Elementary)** (3)  
Refinement of skills related to program development, methods of teaching, selection of materials, and review of research, in elementary education.

**SSE 6925 Workshop in Content, Methods and Materials of Teaching** (1-3)  
Focus on content, methods and materials needed for teaching social studies in the elementary school, K-6.

## Division of Educational Leadership and Human Resource Development

Stephen M. Fain, *Professor and Chairperson*  
Barbara Bader, *Visiting Instructor*  
John A. Carpenter, *Professor and Associate Vice-President, Academic Affairs*  
Peter J. Cistone, *Professor and Dean*  
Charles Divita, Jr., *Professor*  
Miguel Escotet, *Visiting Professor, (Courtesy)*  
Robert V. Farrell, *Associate Professor*  
Allen Fisher, *Associate Professor*  
Paul D. Gallagher, *Associate Professor and Associate Vice-President, Academic Affairs*  
Daniel Gardner, *Assistant Professor*  
Lorraine R. Gay, *Professor and Associate Dean*  
Barry Greenberg, *Associate Professor*  
E. Joseph Kaplan, *Assistant Professor, (Courtesy)*  
Sarah W.J. Pell, *Associate Professor*  
G. Wesley Sowards, *Distinguished Professor*  
James D. Wells, *Associate Professor*  
Sandra Woods, *Assistant Professor*  
William Younkin, *Instructor, (Courtesy)*

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 Core Courses

The Division offers the three "core" courses required for every teacher education student: EDF—3827, EDG—3321, EDG—3321L, and EDG—3322. The three "core" courses are offered for three hours credit every semester on the Tamiami Campus and either or both the Bay Vista Campus. A student must earn a "C" or better in each of the "core" courses before internship.

## 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 6336, Reading in the Content Area, at the 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.

## Cooperative Doctoral and Specialist Degree Programs in School Administration and Curriculum and Instruction: Instructional Leadership

The University offers, in cooperation with the University of Florida, specialist and doctoral programs in School Administration and in Curriculum and Instruction: Instructional Leader-

ship. General requirements for admission to these programs are (1) 1000 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.

## Parks and Recreation— Undergraduate

DEGREE: Bachelor of Science

The Parks and Recreation undergraduate curriculum offers professional preparation programs designed to prepare students for employment in a variety of work settings which have as their goals and objectives a leisure service delivery system. The program is oriented towards supervisory, lower management employment opportunities.

A student may elect to gain competencies in Park Management, Recreation Management, or Parks and Recreation Management.

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, or have completed the Lower Division Program at FIU.

UPPER DIVISION PROGRAM:

	<i>Semester Hours</i>
<i>Required Core Classes:</i>	39
HFT 3403 Management Accounting for the Hospitality Industry	3
LEI 3524 Personnel Management in Parks and Recreation	3
LEI 3542 Principles of Parks and Recreation Management	3
LEI 3630 Care and Maintenance of Grounds	3
LEI 4590 Seminar in Parks and Recreation	3
LEI 4940 Internship I	9
LEI 4941 Internship II	12
MAN 3010 Organization and Management	3

<i>Parks Management Emphasis:</i>	14
ARC 4354 Construction and Design of Natural Recreation Areas	3
BOT 3823 Horticulture	3
LEI 3624 Turf Grass Management	3
PCB 3043 Fundamentals of Ecology	3
PCB 3043L Fundamentals of Ecology Laboratory	2

*Advised Electives:*

Behavioral Science (1)	3
Communication Skills (2)	4
<b>Total 60</b>	

*Recreation Management Emphasis:*

LEI 3437 Program Development in Parks and Recreation Management	3
LEI 4700 Programming for Special Populations	3
POS 3153 Urban Politics	3

*Advised Electives:*

Behavioral Science (1)	6
Communication Skills (2)	6
<b>Total 60</b>	

*Parks and Recreation Management Emphasis:*

Students selecting this emphasis would take required core classes and any combination from the above concentrations.

**Total 60**

## Master's Program Requirements

## Elementary School Administration and Supervision

DEGREE: Master of Science

*Semester Hours* 24

*Required Courses:*

EDA 6061 The Organization and Operation of Public Schools Systems	3
EDA 6510 The Administration of an Elementary School	3
EDA 6943 Supervised Field Experience	3
EDF 5481 Analysis and Applications of Educational Research	3
EDG 6250 Curriculum Development and Improvement	3
EDS 6050 Supervision in Education	3
EDS 6115 Personnel Management and Staff Development	3
EDE 6225 Education Programs for Older Children	3
or EEC 6205 Education Programs for Younger Children	3
<i>Electives: Nine Hours</i>	9
EDA 6223 Emerging Designs for School Organization and Staff Utilization	3
DA 6232 School Law	3
EDA 6242 School Finance	3
EDA 6503 The Principals Seminar in School Administration/Supervision	3
EDA 6930	3



EDF 5430	Measurement and Evaluation in Education	3
EDG 6285	Curriculum Evaluation and Improvement in Urban School Systems	3

Or other courses mutually agreed upon by the advisor and student

**Total 33**

## Secondary School Administration and Supervision

DEGREE: Master of Science

		Semester Hours
Required Courses:		24
EDA 6061	The Organization and Operation of Public School Systems	3
EDA 6530	The Administration of a Secondary School	3
EDA 6943	Supervised Field Experience	2-3
EDF 5481	Analysis and Application of Educational Research	3
EDG 6250	Curriculum Development and Improvement	3
EDS 6050	Supervision in Education	3
EDS 6115	Staff Development Programs in Urban School Systems	3
ESE 6215	Secondary School Curriculum	3
Electives: Nine Hours		9
EDA 6223	Emerging Designs for 11009 School Organization and Staff Utilization	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6503	The Principals Seminar in School Administration/Supervision	3
EDF 5430	Measurement and Evaluation in Education	3
EDG 6285	Curriculum Evaluation and Improvement in Urban School Systems	3

Or other courses mutually agreed upon by the advisor and student.

**Total 39**

## General School Administration and Supervision

DEGREE: Master of Science

		Semester Hours
Required Courses:		30
EDA 6051	The Organization and Operation of Public School Systems	3
EDA 6510	The Administration of an Elementary School	3
EDA 6530	The Administration of a Secondary School	3

EDA 6943	Supervised Field Experience	3
EDF 5481	Analysis and Application of Educational Research	3
EDG 6250	Curriculum Development and Improvement	3
EDS 6050	Supervision in Education	3
EDS 6115	Staff Development Programs in Urban School Systems	3
ESE 6215	Secondary School Curriculum	3
EDE 6225	Education Programs for Older Children	
or		
EEC 6205	Education Programs for Younger Children	3
Electives: Nine Hours		9
EDA 6223	Emerging Designs for School Organization and Staff Utilization	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6503	The Principals Seminar in School Administration/Supervision	3
EDF 5430	Measurement and Evaluation in Education	3
EDG 6285	Curriculum Evaluation and Improvement in Urban School Systems	3

Or other courses mutually agreed upon by the advisor and student.

**Total 39**

## Masters Degree Program in 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 II certificate), or (2) General Administration/Non-Public School Administration (not a certification program).

## Cooperative Doctoral Degree Program in Adult Education

A Miami-based cooperative FIU/FSU program leading to the Doctor of Education (Ed.D)

with a major in Adult Education is available to qualified and interested persons. 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 the FIU/FSU cooperative doctoral program in order to ensure proper guidance.

## Adult Education: Administration and Supervision (Only for public school Adult Educators)

DEGREE: Master of Science

		Semester Hours
Required Core: to be selected with an advisor from the following:		21
ADE 5081	Introduction to Adult Education and Human Resource Development	3
ADE 5180	Development of Adult Education and Human Resource Development Programs I: Organizational/Community Wide Processes	3
ADE 5260	Organization and Administration of Adult Education and Human Resource Development Programs	3
ADE 5385	Adult Teaching and Learning	3
EDF 5481	Analysis and Application of Education Research	3
RED 6336	Teaching Reading in the Content Area	3
ADE	Course as an elective	3
Area of Professional Emphasis:		9
EDA 6061	The Organization and Operation of Public School Systems	3
EDG 6250	Curriculum Development and Improvement	3
EDS 6050	Supervision in Education	3
<b>Total 30</b>		

## Adult Education: Curriculum and Instruction

DEGREE: Master of Science

		Semester Hours
Required Core:		21
ADE 5081	Introduction to Adult Education and Human Resource Development	3

ADE 5180	Development of Adult Education and Human Resource Development Programs I: Organizational/Community/ Wide Processes	3
ADE 5383	Development of Adult Education and Human Resource Development Programs II: Instruction Level Processes	3
ADE 5385	Adult Teaching and Learning	3
ADE 6930	Seminar in Adult Education and Human Resource Development	3
EDF 5481	Analysis and Application of Education Research	3
ADE	Course as an elective	3

**Electives:**  
The candidate will be encouraged to select courses that will increase competence in a teaching specialty or a supportive social/behavioral science.

Total 30

LEI 6922*	Supervised Field Experiences in Parks and Recreation	3-9
		Total 30-31
		6

**Advised Electives:**

\*A student who did not complete an Internship/Field Experience during his or her undergraduate degree curriculum will be required to take LEI 6922. Students with field experience may select advised electives (6 hrs.).

**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; LEI — Leisure.

**ADE 5081 Introduction to Adult Education and Human Resource Development (3)**

Developing rationale for and philosophy of human resource development/adult education: contrasting agencies, program, and curricula; analyzing factors affecting human resource development, differentiating adults and youths as learners; planning and appraising human resource development programs.

**ADE 5180 Development of Adult Education and Human Resource Development Programs I: Organizational/Community Wide Processes (3)**

Analyzing variables central to human resource development and community development; creating consensus philosophy; objectives; mobilizing resources; conducting evaluation studies.

**ADE 5195 Designing Education and HRD Programs for Disadvantaged (3)**

Distinguishing various forms of disadvantage; analyzing forces which inhibit solution; critiquing responses to problems; developing programs, curricula, materials recruitment strategies, and evaluation designs.

**ADE 5260 Organization and Administration of Adult Education and Human Resource Development Programs (3)**

Analyzing regulations affecting adult education/human resource development selecting and training staff; selecting organization patterns; executing managerial responsibilities; administering supportive services; relating training to organization development.

**ADE 5383 Development of Adult Education and Human Resource Development Programs II: Instruction Level Processes (3)**

Analyzing models for instructional design; identifying and evaluating variables related to such models; developing designs unique for adult learners and organizational needs.

**ADE 5906 Individual Study in Adult Education and Human Resource Development (1-3)**

Specialized intensive study in areas of interest to the student. Subject to approval of program adviser.

**ADE 5925 Workshop in Adult Education and Human Resource Department (1-6)**

Intensive development of selected competencies related to instructional, curricular and/or administrative skills, of special interest to students in adult education/human resource development.

**ADE 5935 Special Topics in Adult Education and Human Resource Development (1)**

"Mini-courses" which provide for an examination of special facets of adult education and human resource development.

**ADE 5945 Supervised Field Experience in Adult Education and Human Resource Development (1-6)**

Internship in various programs according to needs and interests. Supervisory visits by advisor. Joint conferences and seminars involving the student, the program advisor, and an appropriate representative of the cooperating agency are conducted intermittently.

**ADE 6930 Seminar in Adult Education and Human Resource Development (1-3)**

Intensive study of instructional, curricular, and/or administrative principles and practices, for the solution of problems of special interest to students in adult education and human resource development.

**EDA 6061 The Organization and Operation of Public School Systems (3)**

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 (3)**

Critical analysis of alternatives to traditional school organization and staffing and possible future alternatives in public education.

**EDA 6232 School Law (3)**

A basic course in school law. Students will understand: the law library and its relationship to the school; demonstrate a knowledge about our legal system; will function in a legal framework; and will identify basic concepts of the law as applied to education.

**EDA 6242 School Finance (3)**

Describes and analyzes current and emerging school finance plans; the influence of the courts and federal and state legislation on those plans; special focus on the Florida Education Finance Plan; and the budget responsibilities of the school principal at the school center.

**EDA 6503 The Principalship (2)**

Organization and administration of the school; emphasis on competencies necessary for leader-

**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: Master of Science

Semester Hours  
30-39

<b>Required Core:</b>			21
EDF 5481	Educational Research	3	
LEI 5440	Program Development in Parks and Recreation	3	
LEI 5510	Program Administration in Parks and Recreation	3	
LEI 5595	Seminar in Parks, Recreation, and Athletic Management	3	
LEI 5605	Physical and Social Bases of Parks and Recreation Planning	3	
PAD 6106	Organization Theory and Administrative Behavior	3	
PAD 6417	Public Personnel Administration	3	
<b>Area of Professional Emphasis:</b>			3-12
LEI 5907	Individual Study	3	



ship and management of the school center, both elementary and secondary.

**EDA 6510 The Administration of an Elementary School** (3)  
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** (3)  
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** (1-3)  
For advanced students wishing to undertake an individual project directly related to school administration or supervision. May not substitute for regular course offerings. Prerequisites: (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** (1-3)  
Offers an opportunity for experienced school administrators and supervisors to participate in a problem-oriented workshop.

**EDA 6930 Seminar in School Administration/Supervision** (3)  
In-depth study of selected issues and developments in school administration and supervision, including an examination of related research.

**EDA 6943 Supervised Field Experience** (1-5)  
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 semester for students in the FIU/UF Cooperative Specialist and Doctoral Programs.

**EDF 3521 Education in History** (3)  
An examination of the concepts of childhood, and processes of social initiation in differing historical contexts.

**EDF 3542 Philosophy of Education** (3)  
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.

**EDF 3827 Schooling in America** (3)  
Systematic analysis and examination of critical educational issues in terms of their influence and impact on curriculum and instruction in contemporary schooling.

**EDF 4881 The Teacher and the Law** (3)  
For advanced undergraduates and beginning teachers. Analysis of legal rights and responsibilities in the classroom, laws related to liability, contract, records, discipline, due process, handicapped, and schools.

**EDF 5216 Affective Learning in the Classroom** (3)  
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** (3)  
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** (3)  
Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481.

**EDF 5481 Analysis and Application of Educational Research** (3)  
Competencies required for the design, implementation, and evaluation of educational research, including: problem formulation and analysis; sample selection; instrument selection; formulation of research design and procedure; and data analysis.

**EDF 5710 National Educational Systems: A Comparative Analysis** (3)  
Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of the responses of national educational systems to common educational issues.

**EDF 5720 Latin American Education: An Historical and Contemporary Overview** (3)  
Historical and current development of Latin American education, and analysis of the principal forces shaping this development.

**EDF 5724 African Educational Systems: A Comparative Approach** (3)  
Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices.

**EDF 5780 Intercultural Education: National and International Perspectives** (3)  
Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally.

**EDF 5750 International Development Education: Historical and Contemporary Reality** (3)  
Designed to explore the relationship between education and the modernization/development process. Special emphasis on historic/contemporary educational planning models.

**EDF 5905 Individual Study** (1-3)  
The student plans and carries out an independent study project under direction. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the chairman of the Division and the approval of the instructor.

**EDF 5941 Practicum I: Urban Education** (5)  
**EDF 5942 Practicum II: Urban Education** (5)  
**EDF 5943 Practicum III: Urban Education** (5)  
**EDF 5955 Field Study Abroad** (3-6)  
Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad.

**EDF 6215 Application of Learning Theory to Instruction** (3)  
Competencies required for analysis of selected learning theories and application of these theories to an instructional system.

**EDF 6486 Research Methods in Education: Experimental Design and Analysis** (3)  
Competencies required for the design and analysis of complex educational problems, including: formulation of pre-experimental, true experimental, quasi-experimental, and factorial designs; and related analyses. Prerequisite: EDF 5481.

**EDG 3321 General Teaching Laboratory I: Basic Teaching Skills** (3)  
Practice in generic teaching skills, techniques and strategies basic to all age levels and subject matter areas. Lecture, seminar, and laboratory.

**EDG 3321L General Teaching Laboratory I: Laboratory** (2)  
General teaching skills laboratory to develop and refine basic teaching skills in the areas of instruction, classroom management, and evaluation. Corequisite: EDG 3321.

**EDG 3322 General Teaching Laboratory II: Human Relations Skills** (3)  
Designed to enable student to work effectively in multi-cultural and multi-ethnic communities through the examination of self, the development of human relations and communication skills and the examination of today's complex urban society.

**EDG 5325 Analysis of Teaching** (3)  
Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior.

**EDG 6250 Curriculum Development** (3)  
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** (3)  
Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum.

**EDG 6925 Workshop in General Professional Education** (1-3)  
Offers an opportunity for school personnel to participate in a problem-oriented workshop in one of the fields of general professional education.

**EME 5315 Instructional Media** (3)  
Development of competencies for effective selection and utilization of instructional media.

Consideration of sources, selection, evaluation, and methods of implementing media.

**EDS 6050 Supervision in Education** (3)  
Examines supervision as a process and 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 Personnel Management and Staff Development** (3)  
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.

**LEI 3437 Program Development in Parks and Recreation Management** (3)  
Students will attain competencies in developing objectives, planning a program, and implementing and administering the program.

**LEI 3524 Personnel Management in Parks and Recreation** (3)  
After a study of human interaction in a management setting, students will demonstrate competencies necessary for hiring staff, conducting group dynamics and communicating to the public.

**LEI 3542 Principles of Park and Recreation Management** (3)  
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 3624 Turf Grass Management** (3)  
A practical approach to the care and maintenance of special grasses such as those found on golf courses and other recreational facilities.

**LEI 3630 Care and Maintenance of Grounds** (3)  
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 4590 Seminar in Parks and Recreation Management** (3)  
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.

**LEI 4700 Programming for Special Populations** (3)  
Principles and practices in planning and implementing programs in special community-group settings. Special emphasis will be placed on a systematic approach through problem-solving techniques.

**LEI 4940 Internship I** (9)  
An on-the-job training program designed to enable students to develop those competencies which can only be gained from practical experience.

**LEI 4941 Internship II** (12)  
A continuation of LEI 4940.

**LEI 5440 Program Development in Parks and Recreation** (3)  
The development of specific programs in parks and recreation with emphasis on special programs for young children, retardates, handicapped persons, and the elderly.

**LEI 5510 Program Administration in Parks and Recreation** (3)  
A detailed analysis of administrative procedures and responsibilities in connection with parks and recreation facilities and personnel.

**LEI 5595 Seminar in Parks and Recreation Administration** (3)  
A discussion of current problems, issues, and trends in administration of parks and recreation programs.

**LEI 5605 Physical and Social Bases of Parks and Recreation Planning** (3)  
Concentration on major phases of predesign, design, development, actualization of park and recreation facilities. Course will explore funding, budget, site selection, layout, and maintenance.

**LEI 5907 Individual Study in Parks and Recreation Administration** (3)  
An opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor and Department Chairperson required.

**LEI 6922 Supervised Field Experiences in Parks and Recreation Administration** (3)  
A practical experience for individuals interested in administrative responsibilities. Permission of the instructor and Department Chairperson required.

## Division of Psycho-Educational Services

Donald C. Smith, *Professor and Chairperson*  
Carlos M. Alvarez, *Associate Professor*  
Wendy Cheyney, *Associate Professor*  
Tony Eisner, *Assistant Professor, (Courtesy)*  
Marisal Gavilan, *Associate Professor*  
Deborah Goldstein, *Assistant Professor, (Courtesy)*  
Sarah Hudelson, *Visiting Assistant Professor*  
Daniel A. Kennedy, *Associate Professor*  
Philip J. Lazarus, *Assistant Professor*  
Luretha F. Lucky, *Associate Professor*  
David E. Nathanson, *Professor*  
Howard Rosenberg, *Associate Professor*  
Colleen A. Ryan, *Associate Professor*  
Stephen S. Strichart, *Professor*  
Jethro W. Toomer, *Professor*

Programs within the Division of Psycho-Educational Services are designed to train professionals to 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.

Division programs emphasize the blending of research and theory with practical applied experience. They consider the urban, multicultural nature of the 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 designed to provide specialized skills in vocational education for the handicapped and to develop competencies for personnel working with the severely/profoundly handicapped, and culturally and linguistically different individuals.

*Note: Any part of the following program description is subject to change through proper official notification. The requirements of any given academic program may be superseded by the official program requirement sheet signed at the time of student enrollment.*

### UNDERGRADUATE PROGRAM:

The undergraduate special education programs utilize a competency-based and field-centered training model and lead to Florida Certification in Specific Learning Disabilities, Emotional Handicapped, and Mental Retardation. A student may elect a major in any one of the three areas.

Philosophically, the special education program stresses that all handicapped children are entitled to a free and appropriate public education, that all handicapped children be educated in the least restrictive environment and mainstreamed to the greatest extent possible, and that special educators provide services to pre-school children and adults as well as those who reflect multicultural and multilingual backgrounds. All professional services to exceptional students occur in the context of statutory and case law requirements.

Given this context, undergraduate special education programs emphasize the development of the following competencies to be demonstrated in both the University and field settings:

1. Identifying and diagnosing students with learning and behavior problems.
2. Prescribing and implementing appropriate individual educational plans to meet these problems.
3. Effecting appropriate instruction for children with learning and behavior problems.
4. Managing classroom behavior.
5. Planning for mainstreaming and parent conferencing.

Diagnostic-prescriptive and management skills are to be demonstrated with students who range from pre-school through adulthood, are mild, moderate, severe, and profoundly handicapped, and represent multicultural, multilingual urban backgrounds.

**DEGREE:** Bachelor of Science

### LOWER DIVISION PREPARATION:

*Required Courses:* An Associate of Arts degree or equivalent preparation in basic general education. General Education Requirements: As approved by the faculty of the SOE.



UPPER DIVISION UNDERGRADUATE  
SPECIAL EDUCATION PROGRAM

Required Courses		Semester Hours
EDF 3827	Schooling in America	3
EDG 3321	General Teaching Lab I	3
EDG 3321L	General Teaching Lab I	2
EDG 3322	General Teaching Human Relations, Lab II	3
EDP 3004	Introduction to Educational Psychology	3
EEX 3010C*	Introduction to Exceptional Children & Youth	3
SPA 3000	Introduction to Language Development & Communication Disorders	3
EEX 3221	Assessment of Exceptional Children & Youth	3
EEX 3202*	Foundations of Exceptionality	3
EEX 4241*	Academic Skills for Exceptional Children	3
EMR 4360*	Educational Planning for the Mentally Retarded	3
ELD 4322C*	Educational Planning for Specific Learning Disabilities	3
EED 4227C*	Educational Planning for Emotional Handicaps	3
EEX 4242*	Academic Skills II	3
EEX 4601*	Behavioral Approaches to Classroom Learning I	3
EEX 4611*	Behavioral Approaches to Classroom Learning II	3
RED 4310	Communication Skills I	3
LAE 4314	Communication Skills III	3
MAE 4312*	Inquiry in Mathematics in the Elementary School	3
EEX 4861	Student Teaching	12
Elective Course with advisor's consultation		3
		<b>71</b>

\*Field Work Required.

Note: Courses within the undergraduate training program require field placement during school hours. In addition to a fulltime student teaching placement during the final semester of training, students engage in a senior BLOCK experience the first semester of their senior year. This experience requires fifteen to twenty-five hours a week of placement in an educational setting and class attendance at the University. Permission to student teach is contingent upon advisor's approval and in completion of all requirements specified in the program.

## GRADUATE PROGRAMS:

The Division of Psycho-Educational Services offers master's degree programs that prepare individuals to teach exceptional children and youth, and that train school and community counselors and school psychologists. Emphasis is given to the development of skills in assessment, prescriptive programming, behavior management, 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. Candidates 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-Quantitative 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 are offered in Diagnostic Teaching (Mental Retardation, Emotional Handicaps, Specific Learning Disabilities), Education of the Culturally and Linguistically Different Exceptional Individual, 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.

Applicants to the diagnostic teaching program are required to hold a valid Florida Teaching Certificate in any rank or area of instruction. Individuals who do not hold Florida certification can become eligible for admission if they complete all coursework required for a teaching certificate in any area of education. After completing these courses, such individuals would fulfill an internship in a setting related to this program when 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 and refinement of those developed by the student in the undergraduate special education curriculum: a) Assessment of learning styles through observation and ongoing monitoring techniques; b) application of behavioral approaches to the building, monitoring and remediation of classroom behavior; c) communication of information concerning children to others within the school and to parents, consultation skills; d) curriculum planning and innovation including staffings and IEP; e) supervision of special education units including skill in program evaluation.

Areas of specialization include: Mental Retardation, Emotional Handicaps, and Specific Learning Disabilities. The program leads to certification in the state of Florida in either Mental Retardation, Emotional Disturbance, or Specific Learning Disabilities.

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 ensure having the entry skills for this program.

		Semester Hours
EDF 5481	Analysis and Application of Educational Research	3
EEX 6846	Diagnostic Teaching: Advanced Practicum	3
EGC 6616	Program Evaluation in Pupil Personnel Services	3
EEX 6020	Professional Problems: Special Education	3
SPS 6191	Psycho-Educational Assessment: Intellectual	3
SPS 6192	Psycho-Educational Assessment: Process	3
EMR 6852	Advanced Theory & Practice: Mental Retardation	3
ELD 6323	Advanced Theory & Practice: Specific Learning Disabilities	3
EED 6226	Advanced Theory & Practice: Emotional Handicaps	3
EEX 6863	Supervised Field Experience in Special Education	3
Electives (with consultation of advisor)		6
Semester Hours		<b>36</b>

## OUT-OF-FIELD MAJORS

A student eligible for or holding a Teaching 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 or work experience, the student will be asked to complete one or more of the following courses in addition to those listed above for In Field Majors.

		Semester Hours
EMR 4360	Educational Planning for the Mentally Retarded	3
ELD 4322	Educational Planning for Specific Learning Disabilities	3
EED 4227	Educational Planning for Emotional Handicaps	3
EEX 6051	Exceptional Children and Youth	3
EGC 6707	Applied Behavioral Analysis in Education	3
EEX 6612	Diagnostic Teaching: Systems & Behavioral Models	3
EEX 6227	Diagnostic Teaching: Educational Assessment	3
EEX 6106	Diagnostic Teaching: Acquisition of Language & Reading Skills	3
EEX 4861	Student Teaching	12

# EDUCATION OF THE CULTURALLY AND LINGUISTICALLY DIFFERENT INDIVIDUAL

This is a competency based multidisciplinary Master's Degree Program in any area of Education with emphasis in Bilingual Education. The purpose of this program is to train teachers to meet the needs of the linguistic minority individual. Federal stipends are available.

The entrance requirements are:

- A Bachelor's or Master's Degree in any area of education.
- Teaching Certification in the State of Florida or its equivalent.
- Recommendations from any County Board of Education (appropriate supervisor).
- Evaluation by the Florida International University faculty. Preference will be given to candidates who have demonstrated in the past superior scholastic and practical performance.
- A commitment to intensive practicum experience.
- A satisfactory rating on the Language Proficiency interview (administered by the Division of Psycho-Educational Services).

## Coursework:

The coursework for this program will follow the program requirements for the specific area sought. In addition, coursework in the following areas will be programmed individually according to the student's needs and experiences in the area of bilingual education:

EDF 5781	Foundations of Bilingual Education	3
EDG 5757	Curriculum Development for Bilingual Programs	3
EDG 5716	Cultural and Cross Cultural Studies	3
FLE 5872	Bilingual Education Teaching Methodologies	3
*LIN 5625	Studies in Bilingualism	3

\*Please note that this course has a prerequisite, LIN 3010.

## COUNSELOR EDUCATION:

### General Description

The program in counselor education requires 60 semester hours, or the equivalent of four academic semesters, and leads to the Master of Science in Education degree. The program follows a competency based model, the early part of which is largely generic in nature and is concerned with the development of knowledge and skills in the areas of individual and group counseling, consultation, preventive mental health, educational-vocational development, client appraisal, systems intervention, and model program organization and evaluation. The latter part of the program is more differentiated, and enables a specialization in either community or school counseling. Both areas of specialization meet the standards recommended by the American Personnel and Guidance Association, and specialization in school counseling qualifies the program graduate for the Florida School Guidance Certificate.

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

All students entering the graduate program with an undergraduate degree in an area other than education must enroll for courses in general professional education as well as a course in reading required by the Florida State Department of Education in order to meet state certification requirements in Florida.

The student should consult his/her advisor with reference to these course selections.

## DEGREE: Master of Science

### COMMUNITY COUNSELING PROGRAM

#### Required Courses First Year

		Semester Hours
✓ EGC 6605	Professional Problems: in Pupil Personnel Services	3
EGC 5405	Introduction to Counseling	3
EGC 6725	Human Interaction I	3
EGC 6707	Applied Behavioral Analysis in Education	3
EGC 6726	Human Interaction II	3
*EDF 5481	Analysis and Application of Educational Research	3
EGC 6708	Advanced Counseling and Consultation: Theory and Practice	3
EGC 6203	Appraisal & Measurement in Counseling	3
EGC 5305	Educational and Vocational Guidance	3
EGC 6905	Independent Study in Pupil Personnel Service	3
	Elective	2

#### Required Courses Second Year

EGC 6616	Program Evaluation in Psycho-Educational Services	3
EGC 6905	Independent Study in Pupil Personnel Services	3
EGC 6822	Advanced Practice in Counseling & Consultation	3
EGC 6676	Supervised Field Experience in Pupil Personnel Services	10
EGC 6709	Organizational Consultation: Human Interaction III	3
Electives		6

NOTE: Required Credit Hours = 46  
Electives & Independent Study = 14\*\*

Semester Credit: Total 60

### SCHOOL COUNSELING PROGRAM

#### Required Courses First Year

		Semester Hours
✓ EGC 6605	Professional Problems in Pupil Personnel Services	3
✓ EGC 5405	Introduction to Counseling	3
EGC 6725	Human Interaction I	3
EGC 6707	Applied Behavioral Analysis in Education	3
EGC 6726	Human Interaction II	3
*EDF 5481	Analysis and Application of Educational Research	3
EEX 6051	Exceptional Children and Youth	3
EGC 6203	Appraisal & Measurement in Counseling	3
EGC 5305	Educational & Vocational Guidance	3
Elective		3

#### Required Courses Second Year

EGC 6616	Program Evaluation in Psycho-Educational Services	3
✓ EGC 6708	Advanced Counseling & Consultation: Theory & Practice	3
EGC 6822	Advanced Practice in Counseling and Consultation	3
EGC 6676	Supervised Field Experience in Pupil Personnel Services	10
Electives		11

NOTE: Required Credit Hours = 46  
Electives = 14\*\*

Semester Credit: Total 60

\*The student should consult with the advisor to establish whether additional requirements must be met in general professional education (Foundations of Education, General Methods).

\*\*The student should consult with the academic advisor for guidance in selecting electives appropriate for specialization in school or community counseling.

### SCHOOL PSYCHOLOGY:

The program in School psychology requires 60 semester hours. 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: Master of Science Semester Hours

EDF 5481	Analysis and Application of Educational Research	3
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EGC 5405	Introduction to Counseling	3
EGC 6725	Human Interaction I	3
EGC 6726	Human Interaction II	3
EGC 6707	Applied Behavioral Analysis in Education	3
EGC 6708	Advanced Counseling and Consultation: Theory and Practice	3
EEX 6227	Diagnostic Teaching: Educational Assessment	3
SPS 6805	Professional Problems and Issues in School Psychology	3
SPS 6191	Psycho-Educational Assessment I: Intellectual	3
SPS 6191L	Psycho-Educational Assessment I: Lab	2
SPS 6192	Psycho-Educational Assessment II: Process	3
SPS 6192L	Psycho-Educational Assessment II: Lab	2
SPS 6193	Psycho-Educational Assessment III: Behavior	3
SPS 6193L	Psycho-Educational Assessment III: Lab	2
EGC 6616	Program Evaluation in Pupil Personnel Services	3
EGC 6678	Supervised Field Experience — School Psychology	10

Semester Credits 52

Electives are required depending on the students background (minimum of 8 elective semester hours)

Semester Hours 60

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.

## Certification in Bilingual Education

Individuals who currently hold or are working toward a teaching certificate in any area of education may receive certification in bilingual education by (a) completing a set of courses in bilingual education, and (b) demonstrating language proficiency both in English and in a language other than English. The courses to be taken are:

EDF 5731	Foundations of Bilingual Education	3
EDG 5757	Curriculum Development for Bilingual Programs	3
EDG 5716	Cultural and Cross Cultural Studies	3
FLE 5872	Bilingual Education Teaching Methodologies	3
*LIN 5625	Studies in Bilingualism	3

\*Prerequisite: LIN 3010

The language proficiency instruments (The Test of Spoken English and The Language Proficiency Interview) will be administered at the University on a regularly scheduled basis. Please consult the Center for Multilingual-Multicultural Education for details on test administration and fees.

## Certification in Gifted Education

Individuals who hold Florida teacher certification in any subject or field, may receive certification for teaching the gifted (Grades K-12) by completing the following courses:

EGI 5051	Nature and Needs of the Gifted	3
EEX 5232	Educational Procedures and Curriculum for the Gifted	3
EEX 6732	Guidance and Counseling of the Gifted	3

## Course Descriptions

### Definition of Prefixes:

EDF — Education: Foundations; EDG — Education General; EDP — Educational Psychology; 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.

### EDF 5781 Foundations of Bilingual Education (3)

Focus on an understanding of the bases and rationale for bilingual education, including linguistic, psycholinguistic and sociolinguistic; historical legal perspectives.

### EDF 6165 Psychological Foundations of Education (3)

An advanced survey course designed to acquaint students with major theories and basic principles of learning, instruction, human development, personality and motivation.

of learning, instruction, human development, personality and motivation.

### EDF 6931 Research Problems in Educational Psychology (3)

Critical analysis of research trends and topics in educational psychology with specific relevance to counseling, school psychology, or special education. Students prepare a prospectus for thesis.

### EDF 6971 Thesis in Educational Psychology (3)

Competencies in conducting an original investigation in Educational Psychology with specific relevance to counseling, school psychology, or special education.

### EDG 5716 Cultural and Cross Cultural Studies (3)

Overview of immigration patterns in U.S., discussion of theories of ethnicity, acculturation, intercultural communication. Development of teaching strategies for multicultural classrooms.

### EDG 5757 Curriculum Development for Bilingual Programs (3)

Presents curriculum designs and plans for bilingual schooling. Examines materials available for bilingual classes, with emphasis on adaptations and original creations to meet local needs.

### EDP 3004 Introductory Educational Psychology (3)

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.

### EED 4227C Educational Planning for Emotional Handicaps (3)

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. Corequisite: EEX 4242.

### EED 6226 Advanced Theory and Practice: Emotional Handicaps (3)

Major theories in the area of behavior disorders, and skills in the application of these theories to education. Prerequisite: EED 4227C or permission of instructor.

### EEX 3010 Introduction to Exceptional Children and Youth (3)

Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experiences required.

EEX 3202 Foundations of Exceptionality (3)  
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 (3)

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 4040 Exceptional Children in the Mainstream of Education (3)

Characteristics of mildly handicapped children and techniques of identifying, assessing, managing and instructing them in the regular classroom.

### EEX 4241 Academic Skills for Exceptional Children (3)

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: EEX 3010C, SPA 3000, EEX 3221, RED 4310.

### EEX 4242 Academic Skills for Exceptional Children (3)

A field-based course where competencies are demonstrated in the areas of assessment, prescriptive teaching, IEP development, lesson

planning, and curriculum scope and sequence.  
Prerequisite: EEX 4241.

# **EEX 4248 Educational Programs for the Handicapped at the Secondary Level (3)**

Analysis and application of instruction methodology and service delivery models for handicapped students in secondary school programs.

# **EEX 4601 Behavioral Approaches to Classroom Learning (3)**

Concepts and skills for building and modifying social and academic behaviors. Skills in precision teaching, behavior modification, and the functional analysis of behavior. Prerequisites: EEX 3010, 3202, SPA 3000, EEX 3221.

# **EEX 4611 Behavioral Approaches to Classroom Learning II (3)**

Concepts and skills necessary for the management and maintenance of classroom behavior, including token economies, current development planning, and parent/teacher consultation. Field experience required. Prerequisite: EEX 4601.

# **EEX 4861 Student Teaching (12)**

A field experience in a program for exceptional children, demonstrating competencies learned throughout the program.

# **EEX 4905 Individual Study in Special Education (1-6)**

Concepts or competencies contracted for between an undergraduate student and an instructor in accordance with the student's individual needs.

# **EEX 6020 Professional Issues in Special Education (3)**

Current issues in the special education profession, with focus on changing trends, delivery of service, legislation, and role diversification. Emphasis is placed on articulation of a personal professional role model.

# **EEX 6045 Mainstreaming Exceptional Children: Issues and Techniques (3)**

Awareness of issues underlying the movement to mainstream mildly handicapped students. Techniques and procedures for effective mainstreaming of these students.

# **EEX 6051 Exceptional Children and Youth (3)**

Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experience and graduate project required.

# **EEX 6065 Educational Programs for Secondary Level Exceptional Students (3)**

Development of Curriculum, methodology, and program designs for the education of exceptional students in secondary school settings.

# **EEX 6106 Diagnostic Teaching: Acquisition of Language and Reading Skills (3)**

Concepts in acquisition and development of language and reading skills. Prerequisite: SPA 3000.

# **EEX 6227 Diagnostic Teaching: Educational Assessment (3)**

Skill in application of assessment theory to classroom diagnosis and to the development of instructional objectives.

# **EEX 6612 Diagnostic Teaching: Systems and Behavioral Models (3)**

Skills in the application of diagnostic data to various instructional strategies and behavioral models.

# **EEX 6732 Guidance and Counseling of Gifted Students (3)**

Affective development, parental involvement, counseling theories, underachieving gifted.

# **EEX 6846 Diagnostic Teaching: Advanced Practicum (3)**

Application of diagnostic teaching models to individualized, remedial and compensatory instructional programs.

# **EEX 6863 Supervised Field Experience in Special Education (3-9)**

Demonstration of the full range of competencies in diagnostic teaching learned throughout the program. Internship placements include a variety of field settings.

# **EEX 6906 Individual Study in Special Education (1-6)**

Concepts or competencies contracted for by graduate students with an instructor.

# **EEX 6927 Workshop in Special Education (1-6)**

Selected competencies in special education, developed in short-term, intensive workshops.

# **EEX 6937 Seminars in Special Education (3, repeatable to 9)**

A. Topics in Mental Retardation. B. Topics in Specific Learning Disabilities. C. Topics in Behavior Disorders.

# **EGC 5051 Nature and Needs of the Gifted (3)**

Identification and placement procedures, history of the field, and psychological factors affecting development of the gifted/talented.

# **EGC 5232 Educational Procedures and Curriculum for Gifted (3)**

Basic curriculum models in education of the gifted. Relation of models to planning, implementation in traditional classrooms, resource rooms and special classes.

# **EGC 5305 Educational and Vocational Guidance (3)**

Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development.

# **EGC 5405 Introduction to Counseling (3)**

Major theoretical concepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counseling.

# **EGC 6203 Measurement and Appraisal in Counseling (3)**

Concepts and skills related to the use of tests and other appraisal procedures in counseling. Particular emphasis on career and vocational

choice processes. Laboratory experiences included.

# **EGC 6510 Theories in Group Dynamics (3)**

Systematic examination of various theories and relevant research used in study of small group phenomena. Prerequisites: EGC 6725, EGC 6726, EGC 6709.

# **EGC 6540 Group Counseling (3)**

Exploration of roles and function of group counseling in meeting client needs in a variety of settings. Prerequisites: EGC 5405, EGC 6725, EGC 6726.

# **EGC 6560 Advanced Group Development Laboratory (3)**

Development of advanced skills in the analysis and understanding of group process, function, and structures through actual observation of an ongoing group. Prerequisites: EGC 6725, EGC 6726.

# **EGC 6569 Group Process in Organization (3)**

In-depth analysis of planned change and the social psychological phenomena effecting organizational functioning. Prerequisites: EGC 6725, EGC 6726, EGC 6709.

# **EGC 6605 Professional Problems — Counselor Education (3)**

Competencies in regard to the development of major role and service models and the application of budgeting systems, legal, and ethical standards in a psycho-educational setting.

# **EGC 6616 Program Evaluation in Pupil Personnel Services (3)**

Evaluation skills in the student's area of specialization, including competencies in designing evaluation proposals and conducting an actual program evaluation. Prerequisite: EDF 5481.

# **EGC 6676 Supervised Field Experience in Counselor Education (10)**

Demonstration of the full range of competencies learned throughout the program in Counseling. Internship placements include a variety of field settings.

# **EGC 6678 Supervised Field Experience in School Psychology (10)**

Demonstration of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings.

# **EGC 6705 Principles of Design in Group Intervention: Role of the Consultant (3)**

Focuses on role of leader or trainer in complex training design in leadership and human relations training. Emphasis on diagnostic and behavioral skills that help groups become more effective. Prerequisites: EGC 6725, EGC 6726, EGC 6510, EGC 6509.

# **EGC 6707 Applied Behavior Analysis in Education (3)**

Concepts and skills in using behavior modification: functional analysis of behavior, precision teaching, token economies, contingency contracting, parent and/or teacher consultation.



**EGC 6708 Advanced Counseling and Consultation: Theory and Practice** (3)

Extended laboratory experiences stressing the development of skills in behavioral approaches to individual and group counseling, consultation, parent education, and in-service training. Prerequisite: EGC 6707 or equivalent.

**EGC 6709 Human Interaction III: Organizational Consultation** (3)

Theoretical concepts and skills in organizational development and change. Competencies in systems diagnosis and assessment, consultation, agenda setting, team building, decision-making, and feedback. Prerequisite: EGC 6726.

**EGC 6725 Human Interaction I: Group Process Laboratory** (3)

Concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

**EGC 6726 Human Interaction II: Analysis of Group Participation** (3)

Participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority and membership. Prerequisite: EGC 6725.

**EGC 6822 Advanced Practica in Counseling and Consultation** (3)

Advanced competencies in counseling and consultation.

**EGC 6905 Individual Study in Pupil Personnel Services** (1-6)

Competencies contracted for between a student and an instructor in accordance with the student's individual needs.

**EGC 6925 Workshop in Psycho-Educational Services** (1-6)

Selected competencies in counselor education or school psychology, developed in short-term, intensive workshops.

**EGC 6936 Seminars in Pupil Personnel Services** (3, repeatable to 9)

Special topics in relation to counseling or school psychology.

**ELD 4322 Educational Planning for Specific Learning Disabilities** (3)

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** (3)

Major concepts in the area of specific learning disability, and skills in the application of these concepts to education. Prerequisite: ELD 4322 or permission of instructor.

**EMR 4360 Educational Planning for the Mentally Retarded** (3)

Concepts and skills used in planning educational, prevocational and vocational programs for the mentally retarded. Laboratory experi-

ences required. Prerequisites: EEX 4241, EEX 4601.

**EMR 6852 Advanced Theory and Practice: Mental Retardation** (3)

Major concepts in the area of mental retardation, and skills in the application of these concepts to education. Prerequisite: EMR 4360 or permission of instructor.

**FLE 5895 Bilingual Education Teaching Methodologies** (3)

Examination of various approaches to bilingual education, including specific school and classroom organizations. Development of specific instructional strategies for bilingual students.

**SPA 3000 Introduction to Language Development and Communication Disorders** (3)

Skills in assessing and classroom programming for language development and for various speech and language disorders of children.

**SPS 6191 Psycho-Educational Assessment I: Intellectual** (3)

Competencies in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191L for School Psychology majors. No corequisite for other majors.

**SPS 6191L Psycho-Educational Assessment I: Lab** (2)

Practical skills in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191.

**SPS 6192 Psycho-Educational Assessment II: Process** (3)

Competencies in the assessment of psycho-educational processes in children and their relationship to intellectual ability. Corequisite SPS 6192L for School Psychology majors. No corequisite for other majors. Prerequisite: SPS 6191.

**SPS 6192L Psycho-Educational Assessment II: Lab** (2)

Practical skills in the assessment of psycho-educational processes in children. Emphasis on assessing disorders in the visual, auditory, haptic, language, and sensory integration areas. Corequisite: SPS 6191, SPS 6191L.

**SPS 6193 Psycho-Educational Assessment III: Behavior** (3)

Competencies in behavioral and personality assessment of students within the school setting. Emphasis on projective testing and behavioral observations. Corequisite: SPS 6193L. Prerequisites: SPS 6191, SPS 6192.

**SPS 6193L Psycho-Educational Assessment III: Lab** (2)

Practical skills in projective and behavioral assessment of students within the school setting. Corequisite: SPS 6193. Prerequisites: SPS 6191, SPS 6192.

**SPS 6805 Professional Problems in School Psychology** (3)

Competencies in regard to the development, role and function of school psychologists. General orientation and legal and ethical issues included.

## Division of Subject Specializations

**George B. Pearson, Chairperson and Professor, Physical Education**

**Judy A. Blucker, Associate Professor, Physical Education, and Assistant Dean for Bay Vista/Broward**

**Iida F. Chadwick, Associate Professor, Physical Education**

**Arnilda Gonzalez-Quevedo, Associate Professor, Modern Language Education, and Assistant Vice President, Academic Affairs**

**Jack Llewellyn, Associate Professor, Physical Education**

**Richard Lopez, Associate Professor, Physical Education**

**C. Edwin McClintock, Associate Professor, Mathematics Education**

**Luis A. Martinez-Perez, Associate Professor, Science Education and Director, Multilingual and Multicultural Center**

**Clement Pennington, Associate Professor, Art Education**

**Robert Shostak, Professor, English Education**

**John J. Staczek, Associate Professor, Modern Language Education/TESOL, and Associate Dean, International Affairs Center**

**Robert F. Testa, Associate Professor, Music Education, and Director, Teacher Education Center**

**Jan L. Tucker, Professor, Social Studies Education and Director, Global Awareness Program**

**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

**LOCATION:** Tamiami Campus

A student enrolled in the Division may pursue the following programs:

**General: Grades 1-12**

Art Education

Music Education

Physical Education

**Secondary Education: Grades 7-12**

Biology

Education

Chemistry

Education

English

Education

Mathematics

Education

Modern Language

Education

Physics Education

Health Education	Social Studies Education
History 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 is eligible for regular teacher 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 semester. 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 teaching during the Fall or Spring semester of the senior year. There is no student teaching in the Summer semester.

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 semester following completion of 90 semester hours of credit and no later than 1 semester prior to the time of registration for student teaching.

## Graduate Programs

LOCATION: Tamiami Campus

Master's programs are offered by the Division in the following specialized area:

Art Education	Music Education
English Education	Physical Education
Health Education	Science Education
Mathematics Education	Social Studies Education
Modern Language 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.

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 Admission standards and (2) evidence of a satisfactory record in a teaching or professional field.

A typical program of study consists of 30 semester hours of course work. Generally, 6 semester 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 6336.

## 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 (6 semester hours).

UPPER DIVISION PROGRAM:

Semester Hours	
<i>Subject Matter Specialization:</i>	27
ARH 4470 Contemporary Art, Art History Elective	6
ART 3111C Ceramics	3
ART 3150C Jewelry and Metals	3
ART 3401C Printmaking	3
ART 3510C Painting	3
ART 3601C Photography	3
ART 3702C Sculpture	3
Art Electives:	6

*Professional Education:* 30

EDF 3827 Schooling in America	3
EDG 3321 General Teaching Laboratory I	3
EDG 3321L Laboratory	2
EDG 3322 General Teaching Laboratory II	3

*Reading Requirement:*

RED 4325 Special Teaching Laboratory: Reading	3
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*Special Methods and Student Teaching:* A student must complete the 6 semester hours of foundations courses, and all core courses before enrolling in 4000 level special methods courses.

ARE 4316 and ARE 4341 must be taken in sequence before ARE 4940.

ARE 4316 Special Teaching Laboratory: Art in Grades K-6	3
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(minimum prerequisite or corequisite of 18 hours required in subject matter specialization)

ARE 4341 Special Teaching Laboratory: Art in Grades 7-12	
(minimum prerequisite or corequisite of 30 hours required in subject matter specialization)	3
ARE 4940 Student Teaching in Art	9
<i>Advisor Approved Electives</i>	3
	60

## Art Education

DEGREE: Master of Science

*Semester Hours*

<i>Education, including Art Education:</i>	15
EDF 5481 Analysis and Application of Educational Research	3
ARE 6140 Curriculum and Instruction in Art	3

*Select one of the following:*

ARE 5251 Art for Exceptional Children and Youth	3
EDE 6205 Curriculum Design for Childhood Education or Secondary School Organization and Coordination of School and Community Art Programs	3
ARE 6706 Seminar in Art Education: Contemporary Issues and Research	3

*Teaching Field:* 15  
Five graduate art courses, including one art history:  
Art History (3)  
Studio Art (12)  
(Three semester hours credit for each studio course)

*Advisor Approved Electives:* 6  
36

## Biology Education: Grades 7-12

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

*Required Courses:* Eight semester hours of biology; eight semester hours of general chemistry; eight semester hours of general physics; mathematics through analytical geometry; and Foundations of Education (6 semester hours).

UPPER DIVISION PROGRAM:

Semester Hours	
<i>Subject Matter Specialization:</i>	32
Genetics	3
Biochemistry	5
Molecular Biology	5
Developmental Biology	3



Electives in Biology*	6
Organic Chemistry	5
Quantitative Analysis	5

**Professional Education:**

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3

**Reading Requirement:**

RED 4325	Special Teaching Laboratory: Reading	3
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**Special Methods and Student Teaching:**

A student must complete six (6 semester) hours of foundations courses and all core courses before enrolling in 4000 level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters.

SCE 4330	Special Teaching Laboratory:	
Science (minimum prerequisite or corequisite of 20 hours required in subject matter specialization)		3
SCE 4944	Student Teaching	9

**Advisor Approved Electives:**

Sufficient number of hours to accrue to a total of 60 semester hours at the University.

60

\*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:** Eight semester hours of general chemistry; eight semester hours of general physics; mathematics through Calculus I; and Foundations of Education (6 semester hours).

**Recommended Course:** Organic Chemistry

**UPPER DIVISION PROGRAM:**

Semester Hours		
<b>Subject Matter Specialization:</b>		25-27
Organic Chemistry I and II		6
Organic Chemistry Laboratories		3
Quantitative Analysis and Laboratories		5
Physical Chemistry and Laboratory		5
Electives in Chemistry		3-5
Calculus II		3

**Professional Education:**

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3

**Reading Requirement:**

RED 4325	Special Teaching Laboratory: Reading	3
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**Special Methods and Student Teaching:**

A student must complete six (6 semester) hours of foundations courses and all core courses before enrolling in 4000 level spe-

cial methods courses. A student must enroll for SCE 4330 and 4944 in consecutive semesters.

SCE 4330	Special Teaching Laboratory:	
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Science (minimum prerequisite or corequisite of 20 hours required in subject matter specialization)

SCE 4944	Student Teaching	9
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**Advisor Approved Electives:**

Sufficient number of hours to accrue to a total of 60 semester hours at the University.

60

## Physics Education: Grades 7-12

DEGREE: Bachelor of Science

**LOWER DIVISION PREPARATION:**

**Required Courses:** Eight semester hours of general physics; eight semester hours of general chemistry; mathematics through Calculus II; and Foundations of Education (6 semester hours).

**Remarks:** Linear algebra, a prerequisite for multi-variable calculus (section I below) may be taken at the lower division or at the University.

**UPPER DIVISION PROGRAM:**

Quarter Hours		
<b>Subject Matter Specialization:</b>		26
PHY 3048, 3049,		10
PHY 3048L 3049L		2
Modern Physics		6
Electives in Physics		5
Multivariate Calculus		3

**Professional Education:**

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3

**Reading Requirement:**

RED 4325	Special Teaching Laboratory: Reading	3
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**Special Methods and Student Teaching:**

A student must complete six semester hours of foundations courses and all core courses before enrolling in 4000 level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters.

SCE 4330	Special Teaching Laboratory: Science	
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(minimum prerequisite or corequisite of 20 hours required in subject matter specialization)

SCE 4944	Student Teaching	9
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**Advisor Approved Electives:**

Sufficient number of hours to accrue to a total of 60 semester hours at the University.

60

## Science Education

DEGREE: Master of Science

Semester Hours		
<b>Education:</b>		12

EDF 5481	Analysis and Application of Educational Research	3
ESE 6215	Secondary School Curriculum	3
SCE 6635	Teaching Science in the Secondary School	3
SCE 6933	Seminar in Science Education	3

**Teaching Field**

Biology or Chemistry or Physics

or

One course in each of the following areas: Biology, Chemistry, Physics (For Junior High Science Teachers)

**Electives:**

6

30

## 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 (6 semester 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.

**UPPER DIVISION PROGRAM:**

Semester Hours		
<b>Subject Matter Specialization:</b>		27
ENG 3500	Introductory Linguistics	3
ENG 4555	Modern Grammars (Prerequisite: ENG 3500)	3
LAE 4464	Adolescent Literature	3
Literary Criticism		3
Shakespeare		3
Communications electives		6
Literature electives		6

**Professional Education:**

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3

**Reading Requirement:**

RED 4325	Special Teaching Laboratory: Reading	3
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A student must complete six semester hours of foundations courses and all core courses before enrolling in 4000 level special methods courses. A student must enroll for LAE 4335 and LAE 4942 in consecutive semesters.

LAE 4335	Special Teaching Laboratory:	
English (minimum prerequisite or corequisite of 20 hours required in subject matter specialization)		3
LAE 4942	Student Teaching	9

**Advisor Approved Electives:** 9  
Sufficient number of hours to accrue to a total of 60 semester hours at the University.

60

## English Education

DEGREE: Master of Science

Education:	Semester Hours
EDF 5481 Analysis and Application of Educational Research	3
LAE 6339* Teaching English in the Secondary School	3
ESE 6215 Secondary School Curriculum	3
LAE 6935 Seminar in English Education	3
*Prerequisite: Undergraduate methods course	
Teaching Field: English	15
Advisor Approved Electives:	3
	30

## Health Education Grades 7-12

DEGREE: Bachelor of Science

**Required Courses:** Foundations of Education. Completion of lower division Health Education Program, Personal Health.

UPPER DIVISION PROGRAM:

Subject Matter Specialization	Semester Hours
HUN 3122 Nutrition and Culture	3
HCA 3120 Health & Social Service Delivery Systems	3
APB 3253 Biological Basis of Human Sexuality	3
or	
SOP 3772 Psychology of Sexual Behavior	3
MCB 3023 General Microbiology	3
or	
MCB 3000 Introductory Microbiology	3
SOP 3932 Psychology of Drugs and Drug Abuse	3
ZOO 3731C Human Anatomy	3
or	
PCB 3700 Foundations of Human Physiology	3
HES 4001 Community Health	3
HES 4160 Critical Issues in Health Education	3

Professional Education:	Semester Hours
EDF 3827 Schooling in America	3
EDG 3321 General Teaching Lab I	3
EDG 3321L Laboratory	2
EDG 3322 General Teaching Lab II	3
RED 4335 Special Teaching Lab: Reading	3

HES 4303L Special Teaching Lab: Health Education	3
HES 4940 Student Teaching	12
<b>Electives:</b> (with prior approval of advisor)	7
	60

## Health Education

DEGREE: Master of Science

Professional Education	Semester Hours
EDF 5481 Analysis and Application of Educational Research	3
EDF 5216 Affective Learning in the Classroom	3
RED 6336 Reading in the Content Area	3
<b>Area of Specialization:</b>	15
HES 5205 Current Concepts in Community Health	3
HES 5326 Educational Approaches to Health Problems	3
HES 5327 Health Curricula in Public Schools	3
CLP 5185 Current Issues in Mental Health	3
or	
SOC 5255 Sociology of Mental Health	3
HUN 5890 Recent Research in Nutrition	3
or	
HUN 5611 Nutrition Education in the Community	3
<b>Electives:</b>	6
DEP 4464 Psychology of Aging	3
	30

## 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 (6 semester hours).

UPPER DIVISION PROGRAM:

Subject Matter Specialization	Semester Hours
History 3001 Introduction to History	3
U.S. History at 3000, 4000 or 5000	6
History other than U.S.	12
U.S. Government (POS 3044)	3
Global Perspectives (SSE 4380)	3
<b>Professional Education:</b>	29
EDF 3827 Schooling in America	3
EDG 3321 General Teaching Laboratory I	3
EDG 3321L Laboratory	2
EDG 3322 General Teaching Laboratory II	3

<b>Reading Requirement:</b>	
RED 4325 Special Teaching Laboratory: Reading	3

## Special Methods and Student Teaching:

A student must complete six semester hours of foundations courses and all core courses before enrolling in 4000 level methods courses. A student must enroll for SSE 4384C and SSE 4942 in consecutive semesters.

SSE 4384C Special Teaching Laboratory: Social Studies	3
SSE 4942 Student Teaching	12

**Advisor Approved Electives:** 4  
Sufficient number of hours to accrue to a total of 60 semester hours at the University.

It is recommended that the student 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.

60

## Mathematics Education: Grades 7-12

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Trigonometry. Analytic geometry. Calculus. Foundations of Education (6 semester hours).

UPPER DIVISION PROGRAM:

Subject Matter Specialization	Semester Hours
Twenty-seven semester hours beyond calculus, including at least six semester hours in probability and statistics, and three semester hours in computer science and geometry.	27
<b>Professional Education:</b>	24
EDF 3827 Schooling in America	3
EDG 3321 General Teaching Laboratory I	3
EDG 3321L Laboratory	2
EDG 3322 General Teaching Laboratory II	3
<b>Reading Requirement:</b>	
RED 4325 Special Teaching Laboratory: Reading	3

**Special Methods and Student Teaching:**  
A student must complete six semester hours 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 semesters.

MAE 4333C Special Teaching Laboratory:	
Mathematics (minimum prerequisite or co-requisite of 20 hours required in subject matter specialization)	3
MAE 4942 Student Teaching	9

**Advisor Approved Electives:** 9



Sufficient number of hours to accrue to a total of 60 semester hours at the University.

60

## Mathematics Education

DEGREE: Master of Science

Semester Hours	
<b>Education:</b>	12
EDF 5481 Analysis and Application of Educational Research	3
MAE 6336 Teaching Mathematics in the Secondary School	3
MAE 6899 Seminar in Mathematics Education	3
ESE 6215 Secondary School Curriculum	3
<b>Teaching Field: Mathematics</b>	12
<b>Electives: In Education and/or Mathematics</b>	9
	33

## 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 target language); and Foundations of Education (six semester hours).

UPPER DIVISION PROGRAM:

Semester Hours	
<b>Subject Matter Specialization:</b>	27
Phonetics or Contrastive Phonology	3
Intro. Linguistics or Linguistics in Target Language	3
Civilization	3
Syntax/Composition	3
Literature in Target Language	6
MOL Electives	9
<b>Professional Education:</b>	24
EDF 3827 Schooling in America	3
EDG 3321 General Teaching Laboratory I	3
EDG 3321L Laboratory	2
EDG 3322 General Teaching Laboratory II	3
<b>Reading Requirement:</b>	
RED 4325 Special Teaching Laboratory: Reading	3
<b>Special Methods and Student Teaching:</b>	
A student must complete the six semester hours of foundations courses and all core courses before enrolling in 4000 level special methods courses. A student must enroll for FLE 4375 and FLE 4942 in consecutive semesters.	
FLE 4375 Special Teaching Laboratory: Modern Languages	9
(minimum prerequisite or corequisite of 20 hours required in subject matter specialization).	3
FLE 4942 Student Teaching	9

Advisor Approved Electives: 9

Sufficient number of hours to accrue to a total of 60 semester hours at the University.

60

## Modern Language Education

DEGREE: Master of Science

PREREQUISITES

One course in general linguistics or the successful completion of LIN 3010 or ENG 3500.

ADMISSION

Requirements for admission to programs in Subject Specializations are: (1) hold or qualify for a Florida Rank III Certificate in the area selected, (2) satisfactory scholastic aptitude as determined by the Graduate Admissions Standards, and (3) evidence of a satisfactory record in the teaching field.

To be admitted into the Master's degree program, a student must: a) hold a bachelor's degree from an accredited university or college; b) have a "B" (3.0) average or better in all junior and senior year course work for the bachelor's degree; OR have a combined score (verbal and quantitative) of 1000 or higher on the graduate record examination; OR hold a master's degree from an accredited university or college. In any case the student *MUST* present a GRE score; c) achieve a score of 220 on the Test of Spoken English; d) in the case of international students, whose first language is other than English, a score of 500 on the TOEFL examination is also required.

DEGREE REQUIREMENTS

The Master of Science degree will consist of 30 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. Also, a maximum of six semester hours of upper division undergraduate courses may be included in the program provided they have *not* been used to satisfy degree requirements for an undergraduate program.

The specific graduate requirements are:

a) All students will be required to complete the following twelve semester hours in the School of Education:

EDF 5481 Analysis and Application of Educational Research	
ESE 6215 Secondary School Curriculum (or equivalent)	
FLE 6805 Teaching Second Language in the Secondary School	
FLE 6938 Seminar in Second Language Education	

b) Supplementary Courses

Students in the M.S. in Modern Language Education Program will choose, in consultation with the advisor, a total of 15 hours from among the following courses in the Department of English, Modern Languages and Psychology:

LIN 4000 Applied Linguistics (or graduate equivalent)	
ENG 5907 Independent Study	
LIN 3400 Applied Linguistics (or graduate equivalent)	
LIN 4701 Psychology of Language (or graduate equivalent)	
LIN 4510 Language Acquisition	
FRW 5150 Comparative Studies	
FRW 5395 Genre Studies	
FRW 5934 Special Topics in Language/Literature	
FRW 5938 Graduate Seminar	
SPW 5155 Comparative Studies	
SPW 5391 Genre Studies	
SPW 5934 Special Topics in Language/Literature	
SPW 5936 Graduate Seminar	
LIN 5625 Studies in Bilingualism	
LIN 5934 Special Topics in Linguistics	

c) Field Component

The remaining three semester hours will consist of a supervised field experience in the teaching of one of the modern languages. The field experience may be arranged according to one of the following options:

- Dade County Public Schools;
- Private school;
- adult or community college education;
- adjunct teaching at Florida International University

All arrangements for field experience must be approved by the advisor.

GRADUATION REQUIREMENTS

To receive the Master of Science degree in Curriculum and Instruction, with a subspecialty in Second Language Education, Modern Language track, the student must complete the required 30 semester hours of coursework with a "B" average or higher.

## 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, eight semester hours; history, four semester hours; organizations, four semester hours; techniques secondary instruments, four semester hours; theory, 12 semester hours; sight-singing, four semester hours; Foundations in Education, six semester hours.

UPPER DIVISION PROGRAM:

Semester Hours	
<b>Subject Matter Specialization:</b>	23
Applied Music (Four semesters; ½ hour lessons on major instrument each semester)	4
Basic Conducting	1
Beginning Instrumental or Choral	1
Form and Analysis	3
Counterpoint	3
Guitar	1
Twentieth Century Music History	3
Orchestration or Choral Techniques	3
Organizations (4 semesters)	4
<b>Professional Education:</b>	29

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3

**Reading Requirement:**

RED 4325	Special Teaching Laboratory; Reading	3
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**Special Methods and Student Teaching:**

A student must complete the six semester hours of foundations courses and all core courses before enrolling in 4000 level special methods courses.

MUE 3332	Special Teaching Laboratory I: Music	3
MUE 4341	Special Teaching Laboratory II: Music (K-12)	

(Minimum prerequisite or corequisite of 20 hours required in subject matter specialization)

MUE 4940	Student Teaching (Elementary & Secondary)	9
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Advisor Approved Electives:

8  
60

**Music Education**

DEGREE: Master of Science

	<i>Semester Hours</i>	
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<b>Education:</b>		12
ESE 6215	Secondary School Curriculum	3
or		
EDE 6205	Curriculum Design for Childhood Education	3
EDF 5481	Analysis and Application of Educational Research	3
MUE 6349	Methodology of Music Teaching	3
MUE 6938	Seminar in Music Education	3

**Teaching Field: Courses in music including:**

MUH 5375	Twentieth Century Music	3
MUT 5325	Arranging	3
MUG 5105	Advanced Conducting	1

Advisor Approved Electives:

11  
30

**Physical Education: Grades 1-12**

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Foundations of education; first aid or personal health or health education; physical education major courses in dance, aquatics, gymnastics, plus a minimum of two individual sports and two team sports. All required courses must be completed with a grade of "C" or better.

**Remarks:** All physical education majors are expected to be proficient in the following activities: Football, soccer, volleyball, basketball, folk, social and square dance, track and field, tennis, golf, gymnastics, and badminton. At the lower division, students should enroll in those courses in which they are least proficient. Students who have not completed the required courses may apply for admission if the deficiency is not greater than twelve semester hours. However, all program prerequisites must be completed prior to entry into the senior year.

**UPPER DIVISION PROGRAM:**

	<i>Semester Hours</i>	
<b>Subject Matter Specialization</b>		21
PET 3310	Kinesiology	3
PET 3360	Exercise Physiology	3
PET 3430	Physical Education in the Elementary School	3
PET 3640C	Adapted Physical Education	3
PCB 3701	Foundations of Human Physiology	3
PET 4230C	Motor Learning	3
PET 4510	Evaluation in Physical Education	3

The student must select nine semester hours from the courses listed below.

PET 4432	Physical Education for Primary Grades	3
PET 4433	Physical Education for Intermediate Grades	3
PEO 4014C	Coaching Sports	3
PET 4622C	Athletic Injuries	3

**Professional Education:**

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Lab II	3
RED 4335	Special Teaching Lab: Reading	3
PET 4450	Special Teaching Lab: Physical Education	3
PET 4945L	Student Teaching	12

Advisor Approved Courses:

3  
62

**Physical Education**

DEGREE: Master of Science

	<i>Semester Hours</i>	
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<b>Professional Education</b>		6
EDF 5481	Analysis and Application of Educational Research	3
RED 6336	Reading in the Secondary School	3
<b>*Area of Specialization:</b>		21
PET 5216	Sports Psychology	3
PET 5238C	Perceptual Motor Learning	3
PET 5256C	Sociology of Sport	3
PET 5366C	Sports Medicine	3

PET 5438	Physical Education Curriculum in Elementary School	3
PET 6535	Survey of Research in Physical Education	3
PET 6932	Seminar in Physical Education	3
<b>**Electives:</b>		3
PET 5426	Curriculum Development in Physical Education	3
PET 5925	Workshop in Physical Education	1-3
PET 6925-27	Workshop in Physical Education	1-3
<b>***PET 4510</b>	Evaluation in Physical Education	3
PET 5906	Individual Study	1-3
		30

\*Any changes in required program must be approved in advance by advisor

\*All electives must be approved in advance by advisor

\*\*\*Required of all graduate students if they have not taken an undergraduate evaluation class.

**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 (6 semester hours).

**UPPER DIVISION PROGRAM:**

	<i>Semester Hours</i>	
<b>Subject Matter Specialization:</b>		24
History		9
Political Science (POS 3044)		3
Geography (GEA 3000)		3
Economics		3
Anthropology or Sociology		3
Global Perspectives (SSE 4380)		3

**Professional Education:**

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3

**Reading Requirement:**

RED 4325	Special Teaching Laboratory; Reading	3
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**Special Methods and Student Teaching:**

A student must complete six semester 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 semesters.

SSE 4384C	Special Teaching Laboratory: Social Studies	3
SSE 4942	Student Teaching	12
<b>Advisor Approved Electives:</b>		7



\*A minimum of 40 semester hours at the lower and upper divisions combined must be completed in the social studies subject matter specialization for certification. Electives must include sufficient semester hours in United States history (6), history other than United States (10), political science (6), geography (6), economics (6), anthropology (3) and sociology (3) 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.

60

## Social Studies Education

DEGREE: Master of Science

Education:		Semester Hours
		12
SSE 6633	Teaching Social Studies in the Secondary School Curriculum	3
ESE 6215	Secondary School Curriculum	3
EDF 5481	Analysis and Application of Educational Research	3
SSE 6939	Seminar in Social Studies Education	3
Teaching Field: Social Studies, Social Science, History		12
Advisor Approved Electives:		9
		33

## Teaching English to Speakers of Other Languages (TESOL)

DEGREE: Master of Science  
PREREQUISITES

One course in general linguistics or (LIN 3010 or ENG 3500).

### ADMISSION

Requirements for admission to programs in Subject Specializations are: (1) hold or qualify for a Florida Rank III Certificate; (2) satisfactory scholastic aptitude as determined by the Graduate Admissions Standards, and (3) evidence of a satisfactory record in the teaching field.

To be admitted into the Master's degree program, a student must: a) hold a bachelor's degree from an accredited university or college; b) have a "B" (3.0) average or better in all junior and senior year course work for the bachelor's degree; OR have a combined score (verbal and quantitative) of 1000 or higher on the graduate record examination; OR hold a master's degree from an accredited university or college. In any case the student *MUST* present a GRE score; c) achieve a score of 220 on the Test of Spoken English; d) in the case of international students, whose first language is other than English, a score of 500 on the TOEFL examination is also required.

## DEGREE REQUIREMENTS

The Master of Science degree will consist of 30 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. Also, a maximum of six semester hours of upper division undergraduate courses may be included in the program provided they *have not* been used to satisfy degree requirements for an undergraduate program.

The specific graduate requirements are:

### a) Professional Education

All students will be required to complete the following twelve semester hours in the School of Education:

EDF 5481	Analysis and Application of Educational Research
ESE 6215	Secondary School Curriculum (or equivalent)
TSL 6341	Special Methods of TESOL
FLE 6938	Seminar in Second Language Education
Students in the M.S. in TESOL will choose, in consultation with the advisor, a total of 15 hours from among the following courses in the Departments of English, Modern Languages, and Psychology:	

ENG 4555	Modern English Grammar	A
LIN 4710	Language Acquisition	B
LIN 5701	Psychology of Language	B
LIN 5990	Child Language Acquisition	B
ENG 5556	Advanced Syntax	C
LIN 5934	Special Topics in Linguistics	C
ENG 5517	History of the English Language	D
LIN 5625	Studies in Bilingualism	D
LIN 5221	Phonology	D
LIN 5993	Morphology	D
SPN 4790	Contrastive Phonology	D
SPN 4800	Contrastive Morphology	D
SPN 4822	Hispanic American Sociolinguistics	D
SPN 5930	Special Topics in Linguistics	D
ENG 4574	Black English	E
LIN 4400	Applied Linguistics	E
LIN 4418	Problems in Language Learning	E

### c) Field Component

The remaining three semester hours will consist of a supervised field experience in the teaching of English to speakers of other languages. The field experience may be arranged according to one of the following options:

- ESOL in Dade County Public Schools;
- ESOL in adult and/or community college education;
- ESOL in private schools or private enterprise;

(d) Intensive English at Florida International University

All arrangements must be approved by the advisor

## GRADUATION REQUIREMENTS

To receive the Master of Science degree in Curriculum and Instruction, with a subspecialty in Second Language Education, TESOL track, the student must complete the required 30 semester hours of coursework with a "B" or "3.0" average or higher and no more than two "C" grades in required courses.

## International Institute for the Study of Sport (IISS)

Florida International University began to conduct significant research in national and international sport in September, 1980, in the newly established International Institute for the Study of Sport (IISS). 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, or Dr. Richard Lopez.

## 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.

**ARE 4316 Special Teaching Laboratory:**  
Art in Grades K-6 (3)  
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 20 hours required in subject matter specialization.

**ARE 4341 Special Teaching Laboratory:**  
Art in Grades 7-12 (3)  
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 20 hours required in subject matter specialization.

**ARE 4940 Student Teaching in Art** (9)  
Supervised teaching in an elementary and secondary school. Prerequisites: EDG 3321, 3322; ARE 4316, 4341; RED 4325, and 18 semester hours of the course work required in art.

**ARE 5251 Art for the Exceptional Child** (3)  
Development of instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation required.

**ARE 5905 Directed Study in Art**

**Education (1-3)**  
Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor.

**ARE 6140 Curriculum and Instruction in Art (3)**

Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods and materials for art instruction in the elementary, junior, and senior high school. Prerequisite: EDF 5287.

**ARE 6262 Organization and Coordination of School and Community Art (3)**

Procedures for the organization, coordination and evaluation of school, community, and in-service art programs, with particular attention to the urban multi-cultural setting.

**ARE 6706 Seminar in Art Education: Contemporary Issues and Research (3)**

Examination of current issues and review of research in art education literature. Delineation and application of an individual research problem. Prerequisite: EDF 5481.

**ARE 6929 Workshop in Art Education: Stained Glass (3)**

Production and/or application of materials and techniques for art education in a classroom and/or field setting.

**ARE 6925-29 Workshop in Art Education (3)**

Production and application of materials and techniques in art education, in a laboratory or field setting.

**ARE 6929 Workshop in Art Education: Stained Glass (3)**

Production and/or application of materials and techniques for art education in a classroom and/or field setting.

**ESE 5908 Individual Study (1-3)(ARR)**  
The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

**ESE 6215 Secondary School Curriculum (3)**

Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.

**ESE 6425 Research in Secondary Education (1-3)(ARR)**

Examination and evaluation of research studies in secondary education. Prerequisite: At least one course in research methods or equivalent competency. (Determination of equivalent competency will be made by the instructor.)

**ESE 6925 Workshop in Secondary Education (1-3)(ARR)**

Production and application of materials and techniques in a laboratory or field setting. Prerequisite: Consent of instructor.

**ESE 6935 Seminar in Secondary Education (1-3)(ARR)**

Analysis of selected problems in secondary education.

**ESE 6947 Supervised Field Experience (3-9)(ARR)**

Field work in an educational institution or organization. Prerequisite: Consent of Chairperson of the Division.

**FLE 4375 Special Teaching Laboratory: Modern Languages (3)**

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 14 hours in subject matter specialization.

**FLE 4942 Student Teaching (9)**

Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

**FLE 5908 Individual Study (1-3)(ARR)**

The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

**FLE 6336 Secondary Second Language in the Secondary School (3)**

A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of techniques and materials for second language teaching. Prerequisite: LIN 3010 or ENG 3500 or equivalent.

**FLE 6925 Workshop in Second Language Education (1-3)(ARR)**

Production and application of materials and techniques in second language education in a laboratory or field setting.

**FLE 6938 Seminar in Second Language Education (3)**

Advanced study and research on current topics and issues in the field of second language education. Variety of topics to include language testing, language proficiency, language and society, bilingual/bicultural education, and error analysis and the language learner.

**LAE 4335 Special Teaching Laboratory: English (3)**

Development of instructional skills, techniques, and strategies for teaching English in the junior and senior high school. Prerequisites: EDF 3827, EDG 3321, and EDG 3322. Field experience required. Minimum prerequisite or corequisite of 16-20 hours in subject matter specialization.

**LAE 4464 Experiencing Adolescent Literature in the Junior-Senior High School (3)**

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 (9)**

Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4325, appropriate Special

Teaching Laboratory, and appropriate number of hours in subject matter specialization.

**LAE 5908 Individual Study (1-3)(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 (3)**

Analysis of methods, programs, and materials for teaching English in the junior and senior high school, and development of teaching skills.

**LAE 6925-26 Workshop in English Education (1-3)(ARR)**

Production and application of materials and techniques in English education in a laboratory or field setting.

**LAE 6935 Seminar in English Education (3)**

Designed for advanced students, the readings and discussions will focus on policy issues and recent research in English education. Though primarily for experienced English teachers and supervisors, the course is open to administrators and others, with the consent of the instructor.

**MAE 4333C Special Teaching Laboratory: Mathematics (3)**

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 16 hours in subject matter specialization.

**MAE 4942 Student Teaching (9)**

Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

**MAE 5908 Individual Study (1-3)**

The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

**MAE 6336 Teaching Mathematics in the Secondary School (3)**

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 (3)**

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 6925-28 Workshop in Mathematics Education (1-3)**

Production and application of materials and techniques in math education in a laboratory or field setting.

**MUE 3332 Special Teaching Laboratory I (3)**

Development of instructional skills, techniques, and strategies for school music performance organizations through laboratory and field experi-



ences. Prerequisites: EDF 3827, EDG 3321, EDG 3322.

**MUE 4341 Special Teaching Laboratory II (3)**

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 (9)**  
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 4325, and 20 semester hours of the coursework required in music.

**MUE 5907 Directed Study in Music Education (1-3)**  
Individual investigation in one or more areas of music education.

**MUE 5928 Workshop in Music (1-3)**  
Applications of materials and techniques in music in a laboratory or field setting.

**MUE 6349 Methodology of Music Teaching (3)**  
Analysis of methods, programs and materials for teaching music in the public schools, and development of music pedagogy skills.

**MUE 6925-26 Workshop in Music Education (1-3)**  
Applications of materials and techniques in music education in a laboratory or field setting.

**MUE 6938 Seminar in Music Education (3)**  
Seminar in music programs in the United States and other countries, and current issues and problems facing the music educator.

**PEM 2102 Foundations of Fitness (3)**  
Presents concepts related to the evaluation, development, and maintenance of fitness, including principles of training, weight control and stress reduction. Provides instruction in lifetime sports.

**PET 3202 Physical Education in the Secondary School (3)**  
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.

**PET 3310 Kinesiology (3)**  
Students study the anatomical and mechanical principles of movement and apply this knowledge in the analysis of physical education and athletic sport activities. (Includes laboratory class periods.)

**PET 3360 Exercise Physiology (3)**  
Students study the factors in exercise physiology and make application of this knowledge in laboratory situations.

**PET 3430 Physical Education in the Elementary School (3)**  
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 (3)**  
Students gain knowledge of scientific factors and develop and implement physical education programs for special populations. Laboratory and Field Experience required.

**PET 4230C Motor Learning (3)**  
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 (3)**  
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. Prerequisite PET 3430.

**PET 4433 Physical Education for Intermediate Grades (3)**  
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. Prerequisite PET 3430.

**PET 4450L Special Teaching Laboratory: Physical Education (3)**  
Students will develop the instructional skills and strategies in the teaching of physical education.

**PEO 4014C Coaching Sports (3)**  
Students will examine the philosophy, organization, and skills necessary for coaching interscholastic sports in an educational environment.

**PET 4510 Evaluation in Physical Education (3)**  
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 (3)**  
Students will demonstrate knowledge of the proper care and prevention of athletic injuries through the application of acceptable training techniques.

**PET 4945L Student Teaching (12)(F,S)**  
During the student's internship, the student will complete written assignments and demonstrate those competencies which are characteristic of a competent physical education teacher.

**PET 5125 History of Physical Education and Sport (3)**  
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 (3)**  
Course will include an analysis of psychological variables which might influence physical performance. Topics to be discussed include personality development, motivation, anxiety, tension, stress, aggression, attribution theory, and social facilitation. The course is intended for prospective physical educators and others interested in motor performance. No prerequisites.

**PET 5238C Perceptual Motor Learning (3)**  
Students will demonstrate knowledge and understanding of various approaches to, and theories of, perceptual motor learning, with special emphasis in physical education. Perceptual motor tasks will be performed as well as taught by the students.

**PET 5256C Sociology of Sport (3)**  
Students will demonstrate a thorough understanding of the sociological bases of sport and will actively engage in a field study involving a particular phase of sport and society.

**PET 5366C Sports Medicine (3)**  
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.

**PET 5426 Curriculum Development in Physical Education (3)**  
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 (3)**  
Examination of objectives, content, methods of teaching, and evaluative techniques in elementary school physical education. Emphasis on curriculum development and refinement of teaching skills.

**PET 5906 Individual Study (1-3)**  
Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor.

**PET 5925 Workshop in Physical Education (1-3)**  
Production and/or application of materials and techniques for physical education in a classroom and/or field setting.

**PET 6535 Survey of Research in Physical Education (3)**  
Following a survey of research in physical education, students will demonstrate competencies in applying this knowledge to teaching situations in the public schools.

**PET 6925-27 Workshop in Physical Education (1-3)**  
Production and/or application of materials and techniques for physical education in a classroom and/or field setting.

**PET 6932 Seminar in Physical Education (3)**  
Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport.

**PET 6944 Supervised Field Experience (3-9)**  
Students may use this course to become involved in an in-depth study, research project, or any one of a variety of other activities, under the guidance of a faculty member.

**RED 4325 Special Teaching Laboratory: Reading (3)**  
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 (3)

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 16-20 hours in subject matter specialization.

**SCE 4944 Student Teaching** (9)

Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

**SCE 5905 Individual Study** (1-3)

The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor.

**SCE 6635 Teaching Science in the**  
Secondary School (3)

Analysis of methods, programs, and materials for teaching science in the junior and senior high school, and development of teaching skills.

**SCE 6925-26 Workshop in Science**  
Education (1-3)

Production and application of materials and techniques in science education in a laboratory or field setting.

**SCE 6933 Seminar in Science Education** (3)

Analysis of research trends and selected topics in science education. Mainly for graduate students in secondary science education. Individual needs and interests will determine the fine structure of the course content.

**SSE 4380 Developing a Global Perspective** (3)

Theory, content, and practice. Introduction and utilization of learning materials and teaching strategies in Global Education for K-12.

**SSE 4384C Special Teaching Laboratory:**  
Social Studies (3)

Development of instructional skills, techniques, and strategies for teaching social studies in the junior and senior high school. Prerequisites: EDF 3827, EDG 3321, and EDG 3322. Field experience required.

**SSE 4942 Student Teaching** (12)

Supervised teaching in a junior or senior high school. Prerequisites: EDF 3827, EDG 3321, EDG 3322, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization.

**SSE 5908 Individual Study** (1-3)(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 (3)

Analysis of methods, programs, and materials for teaching social studies in the junior and senior high school, and development of teaching skills.

**SSE 6925-28 Workshop in Social Studies**  
Education (1-3)

Production and application of materials and techniques in social studies education in a laboratory or field setting.

**SSE 6939 Seminar in Social Studies**  
Education (3)

Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others, with the consent of the instructor.

**TSL 6341 Special Methods of TESOL** (3)

Investigation of modern techniques for the teaching of oral and written communication in English to non-native speakers of English, including the evaluation and development of materials for English to Speakers of Other Languages. Prerequisite: LIN 3010 or ENG 3500 or equivalent.

## Division of Vocational Education

**Robert Vos, Assistant Professor, Program**  
*Leader, Technical Education, and Acting*  
*Chairperson*

**George W. Vanover, Associate Professor,**  
*Program Leader, Business Teacher*  
*Education, and Assistant Dean for*  
*Administrative Affairs*

**Rosemere Baum, Associate Professor, Home**  
*Economics Education*

**Curtis H. Bradley, Professor, Program**  
*Leader Vocational Industrial Education*

**Myrna P. Crabtree, Professor, Program**  
*Leader, Home Economics Education*

**Joan E. Friedenber, Visiting Associate**  
*Professor, Bilingual Vocational Instructor*  
*Training Program*

**A. Dean Hauenstein, Professor, Industrial**  
*Arts Education*

**Dominic A. Mohamed, Associate Professor,**  
*Vocational Industrial Education*

**Robert O. Pryor, Assistant Professor,**  
*Vocational Industrial Education*

**Janice R. Sandiford, Associate Professor,**  
*Program Leader, Health Occupations*  
*Education*

**Dennis G. Tesolowski, Associate Professor,**  
*Vocational Special Needs*

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 Business Teacher Education, Vocational Health Occupations 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 semester of enrollment.

## Graduate Programs

The Division offers graduate course work leading to the degree of *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. All applicants must submit a GRE score, or where appropriate a CLEP score, even though the GPA may be 3.0 or above.

Students are urged to contact the Admissions Office or the Division for further information.

Areas of emphasis available, along with typical programs of study, follow here.

*Note:* Students who have already met the reading requirements as an undergraduate or through in-service education may substitute an elective for RED 6336.

## Business Teacher Education

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

*Required Courses:* Foundations of Education (6 semester 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:

	<i>Semester Hours</i>	
<b>Professional Education</b>	<b>38-47</b>	
EDF 3827 Schooling in America	3	
EDG 3321 General Teaching Laboratory I	3	
EDG 3321L Laboratory	2	
EDG 3322 General Teaching Laboratory II	3	
RED 4325 Special Teaching Laboratory Reading	3	
EVT 3065 Foundations of Vocational Education	3	
*EVT 4949 Supervised Occupational Experience	(3-9)	
BTE 3068 Principles of Business Education	3	
BTE 4360 Special Teaching Lab: Business Education Non-Skills	3	
BTE 4364 Special Teaching Lab: Business Education Skills	3	
BTE 4944 Special Teaching Lab: Business Education Practicum	3	
BTE 4945 Student Teaching in Business Education	9	

#### Business Administration Recommended Courses:

MAN 3010 Organization and Management	3
MAN 3023 Marketing Management	3

**Advised Electives:** Six semester hours in Business Administration selected in consultation with program advisor 6

**Electives:** Electives are recommended either in the School of Education or School of Business Administration and Organizational Sciences, and in consultation with the program advisor. (6)

\*To be a certified vocational business teacher one must have one year (or its equivalent) of office work experience. Supporting letters from former employers are required. EVT 4949 may be taken to meet the work experience requirement.

## Business Education

DEGREE: Master of Science

	<i>Semester Hours</i>	
<b>Required Core:</b>	<b>15</b>	
EVT 5168 Curriculum Development in Vocational Education	3	
EVT 5766 Evaluation in Vocational & Technical Education	3	
EVT 6760 Research in Vocational Education	3	
EVT 6930 Seminar in Vocational Education	3	
RED 6336 Reading in the Content Area	3	
<b>Area of Professional Emphasis</b>	<b>12-15</b>	
BTE 5671 Problems, Issues & Trends in Business Education	3	

BTE 5371 Teaching in Business Ed. Occupational Programs	3
BTE 5774 Teaching Basic Business & Consumer Education	3

or	
BTE 6203 Teaching Word Processing	
BTE 6905 Directed Independent Study	3

or	
BTE 6940 Supervised Clinical Field Experience	3

**Electives:** The candidate will be encouraged to make selections on the basis of individual needs and career goals. 3-6

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## Health Occupations Education

DEGREE: Bachelor of Science

#### LOWER DIVISION PREPARATION:

**Required Courses:** Foundations of Education (6 semester hours).

**Required Technical Preparation:** Occupational preparation in the student's intended area of teaching such as nursing, dental, medical technology, respiratory therapy, radiology technology, and other allied health related occupations requiring training beyond the twelfth grade. Licensure in occupational area when applicable.

#### UPPER DIVISION PROGRAM:

##### Professional Education Requirements:

	<i>Semester Hours</i>	
<b>Professional Education</b>	<b>26-32</b>	
EDF 3827 Schooling in America	3	
EDG 3321 General Teaching Lab I Basic Teaching Skills	3	
EDG 3321L Laboratory	2	
EDG 3322 General Teaching Lab II Human Relations Skills	3	
RED 4325 Special Teaching Lab—Reading	3	
EVT 3065 Foundations of Vocational Education	3	
or		
EVT 5078 Technical Education in American Society	3	
EVT 3165C Course Planning in Voc. Educ.	3	
EVT 3367 Tests and Measurements in Voc. Educ.	3	
*EVT 4949 Supervised Occupational Experience	3-9	

\*For the student who lacks acceptable occupational experience in the area to be taught. Not to be counted in the upper division 60 hours minimum required for graduation.

#### Specialization Area

<b>Requirements</b>	
EVT 4310 Planning and Operating HOE Programs	3
EVT 4311C Special Teaching Lab	3
EVT 4312 Instructional Strategies and Evaluation in HOE Programs	3
EVT 4941 Student Teaching in Health Occupations Education Programs	9

**Suggested Electives:** Electives should be taken to equal a minimum of 60 semester hours.

## Health Occupations Education

DEGREE: Master of Science

	<i>Semester Hours</i>	
<b>Required Core</b>	<b>15</b>	
EVT 5168 Curriculum Development in Vocational Education	3	
EVT 5766 Evaluation in Vocational Technical Education	3	
EVT 6760 Research in Vocational Education	3	
EVT 6930 Seminar in Vocational Education	3	
RED 6336 Reading in the Content Area	3	
<b>Area of Professional Emphasis</b>	<b>9</b>	

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education	3
EVT 5316 Occupational Analysis in Health Occupations and Nursing Education	3
EVT 6318 Issues in Health Occupations and Nursing Education	3

**Technical Electives** 6

The candidate will be encouraged to select courses that will increase her/his subject area technical competence, career goals, and teaching certification requirements. Total 30

## Industrial Arts Education

DEGREE: Bachelor of Science

#### LOWER DIVISION PREPARATION:

**Required Courses:** Foundations of Education (6 semester hours).

**Recommended Courses:** With reference to the technical preparation outlined below the student is encouraged to take basic courses in each area in the lower division.

#### UPPER DIVISION PROGRAM:

	<i>Semester Hours</i>	
<b>Professional Education</b>		
EDF 3827 Schooling in America	3	
EDG 3321 General Teaching Lab I	3	
EDG 3321L Laboratory	2	
EDG 3322 General Teaching Lab II	3	
EVT 3165C Course Planning Vocational Education	3	
RED 4325 Special Teaching Lab — Reading	3	
EIA 4360 Instruction in Industrial Arts	3	
EIA 4941 Student Teaching: Industrial Arts Education	9	

**Advised Electives:** The candidate will be encouraged to select four semester hours of professional electives on the basis of individual needs and career goals for a total of 33 semester hours of professional education.

**Technical Preparation:**

**Required:** A minimum of 27 semester hours are required for certification, with a minimum of six semester hours in each of the following areas:

**CONSTRUCTION**

BCN 3702C	Construction Technology	3
ETC 4252L	Construction Processes	3
BCN 4251C	Architectural Drafting	3

**MANUFACTURING**

ETI 3417C	Manufacturing Technology	3
ETI 4421C	Materials Processing	3
EDT 4525C	Engineering Design Graphics I	3

or

ETD 4526C	Engineering Design Graphics II	3
ETM 4823C	Materials of Industry	3
ETI 4470L	Industrial Research and Development	3

**GRAPHIC COMMUNICATIONS**

GRA 3506	Reprographics	3
GRA 4120	Planographics	3
GRA 4507	Photographics	3

**POWER**

ETM 4407L	Mechanical Power Systems I	3
ETE 4562	Electrical/Electronics Systems	3
ETE 3030	Survey of Electronics	3
ETM 4408	Mechanical Power Systems II	3

**Advised Electives:** Enough electives should be taken to equal a minimum of 60 semester hours.

60

**Industrial Arts Education**

DEGREE: Master of Science

	<i>Semester Hours</i>	
	15-18	

**Required Core:**

EVT 5669	Trends and Issues in Vocational Education	3
EVT 5168	Curriculum Development in Vocational Education	3
EVT 5766	Evaluation in Vocational and Technical Education	3
EVT 6760	Research in Vocational Education	3
EVT 6930	Seminar in Vocational Education	3
RED 6336	Reading in the Content Area	3

**Area of Professional Emphasis:**

EIA 5811	Equipment and Facilities Planning	3
EIA 6931	Analysis of Industrial Arts Education	3

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.

3-6

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**Post-Secondary Technical Education**

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Foundations of Education (6 semester hours).

**Required Technical Preparation:** Technical preparation in the student's intended area of teaching such as electronics technology, architectural technology, commercial art, electronic data processing, electro-mechanical technology, and other occupations requiring training beyond the twelfth grade or demonstration of competency via EVT 4990 listed below.

UPPER DIVISION PREPARATION:

<i>Professional Education</i>	<i>Semester Hours</i>	
	41-47	

EDF 3827	Schooling in America	3
EVT 5078	Technical Education in American Society	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
ADE 5385	Adult Teaching and Learning	3
EDG 3322	General Teaching Laboratory II	3
EVT 3165C	Course Planning in Vocational Education	3
RED 4325	Special Teaching Laboratory—Reading	3
EVT 4949*	Supervised Occupational Experience	3-9

\*For the student who lacks acceptable occupational experience in the area to be taught.

or

EVT 4990	Credit by Examination	3-9
EVT 5460	Educational Media	3
EVT 4940	Special Teaching Laboratory Technical Education	3
EVT 4941	Student Teaching: Technical Education	9

**Advised Electives:** Science, mathematics, technology, psychology or sociology.

6

**Free Electives:** Enough electives should be taken to equal a minimum of 60 semester hours.

60

**Technical Education**

DEGREE: Master of Science

	<i>Semester Hours</i>	
	15-18	

**Required Core:**

EVT 5669	Trends and Issues in Vocational Education	3
EVT 5168	Curriculum Development in Vocational Education	3
EVT 5766	Evaluation in Vocational and Technical Education	3

EVT 6760	Research in Vocational Education	3
EVT 6930	Seminar in Vocational Education	3
RED 6336	Reading in the Content Area	3

**Area of Professional Emphasis:**

EVT 5078	Technical Education in American Society	3
ADE 5385	Adult Teaching and Learning	3

**Technical Electives:**

The candidate will be encouraged to select courses that will increase subject area technical competence.

**Advised Electives for Non-education**

Graduates: 6

EDF 5710	National Educational Systems: A Comparative Analysis	3
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or

SOC 5284	Sociology of Education	
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and

EXP 5406	Theories of Learning	
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or

EDF 6215	Application of Learning Theory to Instruction	3
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**Vocational Home Economics Education**

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Foundations of Education (6 semester hours).

**Recommended Courses:** With reference to subject matter specialization, the student is required to have for certification 39 semester hours in the areas listed below under *Technical Preparation*. These may be earned in courses in both the lower and upper divisions. It is recommended that as many of the basic courses in these areas as possible be taken in the lower division.

UPPER DIVISION PROGRAM:

<i>Professional Education:</i>	<i>Semester Hours</i>	
	32	

EDF 3827	Schooling in America	3
EDG 3321	General Teaching Laboratory I	3
EDG 3321L	Laboratory	2
EDG 3322	General Teaching Laboratory II	3
HEE 3302	Home Economics Educational Planning	3
RED 4325	Special Teaching Lab: Reading	3
HEE 4104	Instruction in Vocational Home Economics	3
HEE 4944	Special Teaching Laboratory: Home Economics Education	3
HEE 4941	Student Teaching: Home Economics Education	9



**Technical Preparation:** Total of 39 semester hours needed from lower and upper division:

	(39)
Housing and Home Furnishing*	6
Management and Family Economics*	6
Family and Child Development*	9
Food and Nutrition*	9
Textiles and Clothing*	9

\*Courses offered in the School of Technology

**Advised Electives:** 3

Sub-specialty area of concentration:  
Competencies may be developed in one of the following aspects:

1. One area of consumer and homemaking education
2. One area of wage-earning home economics
3. Education for the handicapped
4. Education for the culturally disadvantaged
5. Education for the adult learner
6. Educational settings in business, industry or public service agencies.

60

## Vocational Home Economics Education

DEGREE: Master of Science

Required Core:	Semester Hours
HEE 5335 Trends in Vocational Home Economics Education	3
EVT 5168 Curriculum Development in Vocational Education	3
HEE 6915 Research in Home Economics Education	3
HEE 6126 Teaching Home Economics in the Secondary School	3
HEE 6937 Seminar in Home Economics Education	3
RED 6336 Reading in the Content Area	3

**Area of Professional Emphasis:** With program advisor's approval, a student may select courses in subject matter of Home Economics chosen from offerings outside of the School of Education, based on professional competencies needed. 9

**Electives:** The candidate will be encouraged to make selections on the basis of individual needs and career goals. 3-6

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## Vocational Industrial Education

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

**Required Courses:** Foundations of Education (6 semester 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:

Professional Education:	Semester Hours
EDF 3827 Schooling in America	3
EVT 3065 Foundations of Vocational Education	3
EDG 3321 General Teaching Laboratory I	3
EDG 3321L Laboratory I	2
EDG 3322 General Teaching Laboratory II	3
RED 4325 Special Teaching Lab—Reading	3
EVT 3161 Instructional Materials in Vocational Education	3
EVT 3165C Course Planning in Vocational Education	3
EVT 3367 Testing and Measurements in Vocational Education	3
EVT 3815C Vocational Education Laboratory Management and Safety	3
EVT 4949* Supervised Occupational Experience	3-9

\*For students who lack acceptable occupational experience in the area to be taught.

or	EVT 4990 Credit by Examination	3-9
	EVT 5460 Educational Media	3
	EVT 4940 Special Teaching Laboratory: Voc.-Ind. Ed	3
	EVT 4941 Student Teaching: Voc.-Ind. Ed	9
<b>Advised Electives:</b>		6
	SOC 4265 Man, Society and Technology	
or	SOC 5261 Industrial Sociology	3
or	INP 3001 Industrial Psychology	
or	EVT 4562 Laboratory Activities for Teachers of the Handicapped	3
	EGC 5305 Educational and Vocational Guidance	3

**Electives:** enough electives should be taken to equal a minimum of 60 semester hours. 60

## Vocational Industrial Education

DEGREE: Master of Science

Required Core	Semester Hours
EVT 5669 Trends and Issues in Vocational Education	3

EVT 5168 Curriculum Development in Vocational Education	3
EVT 5695 International Comparative Vocational Education	3
EVT 5766 Evaluation in Vocational and Technical Education	3
EVT 6760 Research in Vocational Education	3
EVT 6930 Seminar in Vocational Education	3
RED 6336 Reading in the Content Area	3

**Area of Professional Emphasis:** A student under the direction of an advisor, may develop professional competencies in an area of emphasis through school-based field experiences, seminars, methods courses, workshops, or independent study. 3-9

**Technical Electives:** The candidate will be encouraged to select courses that will increase subject area technical competence. 3-6

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## Administration and Supervision of Vocational Education

Admission to the Administration and Supervision program 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 year of successful teaching experience as a teacher of vocational education classes. To be certified in Administration and Supervision in Vocational Education in Florida, a person must have at least three years of successful teaching experience in one of the vocational education service areas. While one year of successful teaching will meet the experience requirement for admission to the master's degree program initially, the three-year teaching experience requirement must have been completed either before or at the same time as degree requirements are completed. Each graduate student, in consultation with the advisor, plans a program of study to include a core of professional competence, an area of emphasis, and electives. The program requires a minimum of 33 semester hours.

DEGREE: Master of Science	Semester Hours
<b>Required Core:</b>	27-30
EVT 5168 Curriculum Development in Vocational Education	3
EVT 5265 Supervision and Coordination of Vocational Education Programs	3
EVT 5461 Community Relations and Resources for Vocational Education	3
EVT 6264 Administration of Local Vocational Education Programs	3

EVT 6930	Seminar in Vocational Education	3
EDA 6061	The Organization and Operation of the Public School System	3
EDA 6530	The Administration of the Secondary School	3
EDS 6050	Supervision in Education	3
EDG 6250	Curriculum Development	3
RED 6336	Reading in the Content Area	3
<b>Area of Professional Emphasis:</b>		
EVT 6946	Supervised Field Experience	3

**Electives:** The candidate may select a course (or courses) that will increase administrative and supervisory competencies. 3

33-36

## Vocational Teacher Certification Education

The regular certificate (vocational), valid for five years, will be issued by the State Teacher Certification Office to an individual having: (a) appropriate occupational experience; (b) three years full-time teaching experience in a vocational industrial education subject; (c) 20 semester hours in professional education and vocational teacher education courses; and (d) successfully completed the Florida Teacher Certification Examination. 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 VOCATIONAL TEACHER CERTIFICATION

	<i>Semester Hours</i>	
<b>Required Courses:</b>		
Foundations of Education	6	
<b>Professional Vocational Education:</b>		
	15	<i>Certificate Area</i>
EVT 3065	Foundations of Vocational Education	A 3
EVT 3165	Course Planning in Vocational Education (suggested second course in sequence)	B 3
EVT 3161	Instructional Materials in Vocational Industrial Education	B 3
EVT 3815	Vocational Education Laboratory Management and Safety	Elective 3
EVT 4365	Instructional Strategies and Evaluation in Vocational-Technical Education (suggested first course in sequence)	C 3

## Advanced Vocational Teacher Certification

The State Teacher Certification Office will add the designation Advanced Vocational to the

vocational teacher certificate of an individual who (a) has completed the requirements for Vocational Certification, and (b) has been employed as a vocational teacher in public or non-public schools in Florida for three years, and earned 36 semester hours of college credit in vocational teacher education and general education and/or general professional education in an approved plan of studies.

A proposed plan of study for Advanced Vocational Certification must be approved by the State Teacher Certification Office. This approval may *only* be obtained through a Division advisor. It is essential that a candidate for Advanced Vocational Certification meet with a Division advisor to develop a proposed plan of study for approval by the State Teacher Certification Office prior to starting his or her program.

## The Specialist in Education and Doctor of Education Degrees

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 cooperation with other institutions in the areas of Vocational Education, Industrial Arts Education, Home Economics Education, and Business Teacher Education. Presently, approved specialist and doctoral programs exist in cooperation with the University of Florida in Curriculum and Instruction, and Educational Administration, and in cooperation with Florida State University in Adult Education.

## 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.

### BTE 3068 Principles of Business Education (3)

Competency: A knowledge of basic philosophies, principles, practices, trends, and objectives in Business Education.

### BTE 4360 Special Teaching Lab: Business Education Non-Skills (3)

Competency: Knowledge and application of instructional principles, methods, techniques, and practices to the teaching of accounting, book-keeping, 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 (3)

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 (1-3)

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 (9)

Competency: Competencies developed in the utilization of instructional knowledge, 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 (3)

Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate office education programs to include office simulation and cooperative business education.

### BTE 5671 Problems, Issues and Trends in Business Education (3)

Competency: Historical information, issues, current trends, new dimensions and problems in business education. Prerequisite: Graduate standing.

### BTE 5774 Teaching Basic Business & Consumer Education (3)

Competency: Knowledge of current and evolving methods, techniques and practices to teach and evaluate basic business and consumer education programs. Prerequisite: Graduate Standing.

### BTE 6203 Teaching Word Processing (3)

Competency: Knowledge, techniques, methods of teaching, concepts and applications of word processing essential for instruction.

### BTE 6905 Directed Independent Study (1-3)

Competency: The ability to identify, research, and report on a special problem in business education. Subject to approval of the program advisor.

### BTE 6925 Workshop in Business Education (1-3)

Competency: Selected competencies related to instructional and technical areas of business education.

### BTE 6940 Supervised Clinical Field Experience (1-3)

Competency: Updating and upgrading of occupational skills developed via field-based work experience in the business and office occupations. Placement is made subject to approval of program advisor.

### EIA 4042 The Role of Industrial Arts in the Schools (3)

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** (3)  
Competency: Application of education principles, practices, and techniques to the teaching of industrial arts. Prerequisite: EDG 3321.

**EIA 4941 Student Teaching in Industrial Arts** (9)  
Competency: The utilization of instructional knowledge, attitudes, and skills in industrial arts education instructional situations. Prerequisites: EIA 4360, EVT 3165C.

**EIA 5811 Equipment and Facilities Planning** (3)  
Competency: Utilization of research, design, and engineering knowledge and skills to plan laboratory facilities and equipment.

**EIA 5905 Individual Study** (1-3)  
Competency: The ability to identify, research, and report on an industrial arts problem of interest to the student. Subject to approval of program advisor.

**EIA 6931 Analysis of Industrial Arts Education** (3)  
Competency: Knowledge of industrial arts at the national, state, and local levels.

**EVT 3065 Foundations of Vocational Education** (3)  
Competency: A knowledge of the history of vocational education on the national, state, and local levels.

**EVT 3161 Instructional Materials in Vocational Industrial Education** (3)  
Competency: Technical knowledge and skill required to locate and evaluate existing instructional material and to plan, develop, and validate existing instructional materials.

**EVT 3165C Course Planning** (3)  
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** (3)  
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** (3)  
Competency: Knowledge and skill in analyzing, planning, organizing, and controlling laboratory environments and student's safe learning activities.

**EVT 4280 Occupational Safety & Health (OSHA)** (3)  
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 4310 Planning and Operating HOE Programs** (3)  
Competency: Identifying, designing, implementing and evaluating Health Occupations Education Program.

**EVT 4311C Special Teaching Lab in HOE Programs** (3)  
Competency: Knowledge of institutional structure, organization, policies, and roles of school personnel with actual teaching experience in area of specialization.

**EVT 4312 Instructional Strategies and Evaluation in HOE Programs** (3)  
Competency: Knowledge and skill in analyzing, planning, developing, executing and evaluating classroom and laboratory teaching and learning activities in Health Occupations Education.

**EVT 4365C Instructional Strategies and Evaluation in Vocational and Technical Education** (3)  
Competency: Knowledge and skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities.

**EVT 4372 Foundations and Strategies in Bilingual Vocational Education** (3)  
Competency: Knowledge of the history, principles and practices, as well as skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities of bilingual vocational education.

**EVT 4668 Emerging Emphasis in Career Education** (3)  
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** (1-3)  
Competency: The ability to identify, research, and report on a special problem of interest to the student. Subject to approval of program advisor.

**EVT 4940 Special Teaching Laboratory: Vocational Industrial Education and Technical Education** (3)  
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** (9)  
Competency: Utilization of instructional knowledge, attitudes, and skills in a variety of instructional situations in the vocational educational setting. Prerequisite: EVT 4940.

**EVT 4949 Supervised Occupational Experiences** (3-9)  
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** (3-9)  
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** (3)  
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** (3)  
Competency: Knowledge of the basic role and current status of technical education in an industrial democracy.

**EVT 5168 Curriculum Development in Vocational Education\*** (3)  
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** (3)  
Competency: Knowledge and skill in the supervision of personnel, and the coordination of work to achieve institutional goals.

**EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education** (3)  
Competency: Knowledge and skills in methods of teaching, and clinical performance evaluation appropriate to the health field, and development of teaching materials. Prerequisite: Currently teaching or permission of instructor.

**EVT 5316 Occupational Analyses in Health Occupations and Nursing Education** (3)  
Competency: Analysis of current trends in area of health specialty and their application to teaching learning situations in health occupations education. Prerequisites: Currently teaching, permission of instructor, professional liability insurance.

**EVT 5389 Teaching Career Related Activities** (3)  
Competency: Integration and articulation of career concepts and activities with regular curriculum.

**EVT 5460 Educational Media** (3)  
Competency: Knowledge and skill in selecting, developing and utilizing instructional media forms to communicate or demonstrate concepts.

**EVT 5461 Community Relations and Resources for Vocational Education** (3)  
Competency: Knowledge and skill in developing and utilizing community resources and establishing public relations procedures and practices to implement vocational education programs.

**\*EVT 5562 Vocational Laboratory Activities for Teachers of the Handicapped** (3)  
Competency: The use of projects, tools, materials and equipment to facilitate training the occupationally handicapped, physically handicapped, and mentally retarded.

**\*EVT 5565 Introduction to Vocational Special Needs Education** (3)  
Competency: Knowledge of historical developments, legislation, instructional strategies and program alternatives required to instruct special needs students in vocationally related environments. Approved for certification for teachers of the mentally retarded.

**EVT 5669 Trends and Issues in Vocational Education\*** (3)  
Competency: A knowledge of the basic philosophical and curricular trends and issues in vocational-technical education at the international, national, state, and local levels.

**EVT 5695 International Comparative Vocational Education** (3)  
Competency: Skill and knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries.

**EVT 5766 Evaluation in Vocational and Technical Education\*** (3)  
Competency: Knowledge and skills in the use of tests and measurements, to evaluate teaching and learning effectiveness and the validity of objectives.

**EVT 5905 Individual Study** (1-3)  
Competency: The ability to identify, research, and report on a special problem of interest to the student. Subject to approval of program advisor.

**EVT 5925 Workshop in Vocational Education** (1-6)  
Competency: Selected competencies related to vocational and technical areas.

**EVT 5927 Workshop in Health Occupations Education** (1-3)  
Competency: Selected competencies related to Health Occupations Education.

**EVT 6264 Administration of Vocational Education Programs** (3)  
Competency: Knowledge of the principles, practices, functions, and roles of administration, in the operation of vocational education programs.

**EVT 6662 Issues in Health Occupation and Nursing Education.** (3)  
Competency: Identification and examination of current issues in Health Occupation and Nursing Education. Prerequisites: Currently teaching, permission of instructor.

**EVT 6760 Research in Vocational Education\*** (3)  
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** (1-6)  
Competency: Selected competencies related to professional and program areas.

**EVT 6930 Seminar in Vocational Education\*** (3)  
Competency: The application of knowledge and skills to solve special instructional, curricular and/or administrative and supervisory problems and issues in vocational education.

**EVT 6946 Supervised Field Experience** (3-6)  
Competency: Application and refinement of competencies in either classroom, laboratory, or administration, and supervision, via school-based field experiences. Placement is subject to approval of program advisor.

**HEE 3302 Home Economics Educational Planning** (3)  
Competency: Development and adaptation of curriculum and strategies for the presentation of vocational home economics content in a variety of educational settings. Subject to approval of instructor.

**HEE 4104 Instruction in Vocational Home Economics** (3)  
Competency: Ability to apply educational principles, practices and techniques to teaching home economics in varied educational environments. Prerequisite: EDG 3321. Subject to approval of instructor.

**HEE 4941 Student Teaching in Home Economics Education** (9)  
Competency: The utilization of instructional knowledge, attitudes, and skills in vocational home economics education instructional situations. Prerequisites: HEE 3301, HEE 4014, HEE 4944.

**HEE 4944 Special Teaching Laboratory Home Economics** (3)  
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 5335 Trends in Vocational Home Economics Education** (3)  
Competency: Knowledge of current social, economic and educational issues affecting the field of vocational home economics.

**\*HEE 5360 Teaching Child Development** (3)

**\*HEE 5361 Teaching Consumer Education and Family Economics** (3)

**\*HEE 5362 Teaching Clothing and Textiles** (3)

**\*HEE 5363 Teaching Family Life Education** (3)

**\*HEE 5364 Teaching Housing and Home Furnishings** (3)

**\*HEE 5365 Teaching Food and Nutrition** (3)  
\*Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational methods.

**HEE 5905 Individual Study** (1-3)  
Competency: The ability to identify, research, and report on a special problem in vocational home economics. Subject to approval of program advisor.

**HEE 5927 Special Workshop — Home Economics** (1-3)  
Competency: Skill in developing, organizing, teaching, evaluating, and administering programs related to specified aspects of the home economics education.

**HEE 6126 Teaching Home Economics in the Secondary School** (3)  
Competency: Knowledge of current and evolving methods, programs, and materials to teach and evaluate home economics.

**HEE 6551 Supervision of Student Teachers in Home Economics** (3)  
Competency: Skill in teaching, observing, and evaluating student teachers in vocational home economics.

**HEE 6915 Research in Home Economics Education** (3)  
Competency: The analysis and application of research pertaining to philosophy, curriculum, evaluation, and teacher education in home economics. Subject to approval of program advisor.

**HEE 6928 Special Workshop — Home Economics Education** (1-3)  
Competency: Skill in developing, organizing, teaching, evaluating and administering programs related to specific aspects of home economics education.

**HEE 6937 Seminar in Home Economics Education** (3)  
Competency: Application of selected instructional, curricular and/or administrative principles and practices to the solution of problems of special interest to vocational home economics educators. Subject to approval of program advisor.

\*Graduate Standing Required.

## Certificate Programs

### Division of Childhood Education

### Graduate Professional Certificate Program in Reading and Language Arts

The Reading/Language Arts Certificate Program enables teachers to extend their competence in reading and language arts instruction. Completion of the Certificate Program qualifies the teacher to receive Florida State Certification in Reading, grades K-12. Entrance requirements are an introductory reading course, a 2.75 grade point average in the last two years of college work, and two years of full-time teaching. Applicants should apply directly to the Chairperson of the Reading Program.

#### Semester Hours

#### Required Courses:

EDF 5430	Measurement and Evaluation in Education	3
LAE 5414	Children's Literature	3
LAE 6355	Instruction in Language Arts	3
RED 6546	Diagnosis of Reading Difficulty	3



RED 6515	Programs of Remediation in Reading	3
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**Electives\***

Two chosen from language-related courses offered outside of the School of Education 6

Total 21

\*Elective courses are chosen from an approved list in consultation with a Reading Program advisor.

## Division of Educational Leadership and Human Resource Development

### 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:

		Semester Hours
<b>Required Courses:</b>		20
ADE 5925	Workshop in Adult Education and Human Resource Development	1-6
ADE 5385	Adult Teaching and Learning	3
ADE 5180	Development of Adult Education and Human Resource Development Programs I: Organizational/Community Wide Processes	3
ADE 5383	Development of Adult Education and Human Resource Development Programs II: Instruction Level Processes	3
ADE 5935	Special Topics in Adult Education and Human Resource Development	1 (ARR)
ADE 6930	Seminar in Adult Education and Human Resource Development	1-3
		Total 20

**Admission:**

To be admitted to the program the student must:

- Hold or be seeking a bachelor's or master's degree from an accredited institution;
- 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 problem-oriented learning contract during the initial workshop to be pursued throughout the program. Contracts will be refined as the student progresses through the first part of the program of studies. The culminating activity, the Seminar, ADE 6930, will require the student to complete, share and evaluate the tasks and activities within the individual learning contract.

### Division of Psycho-Educational Services

In addition to academic degree programs, the Division of Psycho-Educational Services offers certificate programs which lead to either state teaching certification or a University issued professional certificate.

The Division currently offers the following certificates:

#### Professional Certificate Program in Specific Learning Disabilities and Emotional Disturbance

##### Entrance Requirements:

In order to meet the needs of those teachers not wishing to enter a Master's degree program, but who wish to complete state certification in a sequential and planned program of study, the University has established two Professional Certificate Programs: 1) Specific Learning Disabilities, and 2) Emotional Disturbance (Handicapped). The entrance requirement is a certificate in Elementary Education. The program consists of up to 25 semester hours depending on prior coursework.

In the event a student enrolled in the Professional Certificate Program elects to apply coursework taken towards meeting the requirements for a Master of Science degree, the student will need to follow the regular entrance procedures for the Master's degree program.

##### SPECIFIC COURSES REQUIRED:

###### Specific Learning Disabilities:

EEX 6051	Exceptional Children and Youth
EEX 6106	Diagnostic Teaching: Acquisition of Language and Reading Skills
EEX 6227	Diagnostic Teaching: Educational Assessment
EGC 6707	Applied Behavior Analysis in Education
SPS 6191	Psycho-Educational Assessment I: Intellectual
ELD 6323	Advanced Theory and Practice: Specific Learning Disabilities
ELD 4322C	Educational Planning for Specific Learning Disabilities

###### Emotional Disturbance:

EEX 6051	Exceptional Children and Youth
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EEX 6106	Diagnostic Teaching: Acquisition of Language and Reading Skills
EEX 6227	Diagnostic Teaching: Educational Assessment
EGC 6707	Applied Behavior Analysis in Education
SPS 6191	Psycho-Educational Assessment I: Intellectual
EEX 6612	Diagnostic Teaching: Systems & Behavior Models
EED 4227C	Educational Planning for Emotional Handicaps

A Professional Certificate Program is under development in the area of Mental Retardation.

### GUIDANCE CERTIFICATE PROGRAM

##### Purpose:

To provide a means of obtaining the Florida Guidance Certificate (K-12) for those who already possess a Master's degree in Education and do not wish to pursue a second Master's degree.

##### Entrance Requirements:

- Master's degree in Education.
- Current employment as a counselor or a minimum of three years teaching experience.
- Status as a special graduate student.

Course Requirements	Semester Hours
EGC 5405	Introduction to Counseling 3
EGC 5305	Educational and Vocational Guidance 3
EGC 6708	Advanced Counseling and Consultation: Theory and Practice 3
EGC 6605	Professional Problems: Counselor Education 3
EGC 6203	Measurement and Appraisal in Counseling 3
EGC 6822	Advanced Practice in Counseling and Consultation 3
EEX 6051	Exceptional Children and Youth 3
EDF 5430	Measurement and Evaluation in Education 3
EXP 5406	Theories of Learning OR
CLP 5175	Personality Dynamics OR
SOP 4015	Social and Personality Development
<b>TOTAL CREDIT HOURS REQUIRED: 27</b>	

Note: Not more than six semester hours from another institution may be used to satisfy these requirements.

## Division of Vocational Education

### Professional Graduate Certificate Program for Business Education

The professional Graduate Certificate Program for Business Education requires a minimum of 18 semester hours of course work above the bachelor's degree. This program is designed for those who have already earned a bachelor's degree with a major in Business Education. Consequently, the student will have already met the State Department of Education certificate requirements.

A candidate is urged to consult the Business Education advisor to plan a program of study prior to starting a program.

#### Recommended Preparation

	Semester Hours
RED 6336*	Reading in the Content Area 3
EVT 5168	Curriculum Development in Vocational Education 3
EVT 5766	Evaluation in Vocational-Technical Education 3
BTE 5671	Problems, Issues and Trends in Business Education 3
BTE 5371	Teaching in Business Education Occupational Programs 3
or	
BTE 5774	Teaching Basic Business and Consumer Education

#### Advised Electives 3-6

\*Students who have already met the reading requirements as an undergraduate or through in-service education will not be required to take this course.

### Health Occupations Education Professional Certificate Programs

#### General Information

The overall purpose of the professional certificate program in health occupations education is to enhance the development of basic teaching skills and/or instructional techniques of health occupations educators. The professional certificate program provides for the continuing education, upgrading or redirection needs of health occupations teachers through planned advisement and professional certificate recognition. The programs are for both undergraduate and graduate, degree or non-degree seeking students.

### Undergraduate Professional Certificate Program

This 18 semester-hour plan is designed to meet the needs of the individual who 1) is oc-

cupationally 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:

	Semester Hours
EVT 3065	Foundations of Vocational Education 3
EVT 3165C	Course Planning in Vocational Education 3
EVT 3367	Testing & Measurement in Voc. Education 3
EVT 4310	Planning & Operating a Health Occup. Program 3
EVT 4312	Instructional Strategies & Evaluation in Health Occupations Programs 3

**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 24 semester hour plan is designed to meet the needs of the individual who 1) is occupationally competent in a health field and currently teaching or desires to teach a health occupations subject, 2) holds a teaching certificate or equivalent 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:

	Semester Hours
EVT 5078	Technical Education in American Society 3
or	
EVT 5669	Trends & Issues in Vocational Education 3
EVT 5168	Curriculum Development in Voc. Educ. 3
EVT 5766	Evaluation in Voc. & Tech. Education 3
EVT 5315	Improvement of Teaching Strategies in Health Occupations & Nursing Education 3
EVT 5163	Occupational Analysis in Health Occupations and Nursing Education 3
and/or	
ADE 5383	Adult Teaching and Learning 3

**Advised Electives:** A minimum of two courses selected from courses in General Professional and Adult Education, Vocational Education, Health Service Administration or Health Specialty 6

## 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 program 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 packaged in 4 courses or 12 semester hours of instruction.

## Faculty

### School of Education

<i>Dean</i>	Peter J. Cistone
<i>Associate Dean</i>	Lorraine R. Gay
<i>Assistant Dean, Administrative Affairs</i>	George W. Vanover
<i>Assistant Dean, Bay Vista/Broward</i>	Judith A. Blucker
<i>Assistant Dean, Student Affairs</i>	Emma L. Rembert
<i>Chairpersons:</i>	
<i>Childhood Education</i>	Edythe Morgolin (Acting)
<i>Educational Leadership and Human Resources Development</i>	Stephen Fain
<i>Psycho-Educational Services</i>	Donald C. Smith
<i>Subject Specializations</i>	George Pearson
<i>Vocational Education</i>	Robert Vos (Acting)

### Faculty

Alvarez, Carlos, M., Ph.D. (University of Florida), Associate Professor, Psycho-Educational Services  
 Bader, Barbara, M.S. (Brooklyn College), Visiting Instructor, Educational Leadership and Human Resources Development



- Baun, Rosemere, Ph.D. (*Pennsylvania State University*), Associate Professor, Home Economics Education, Vocational Education
- Bradley, Curtis H., Ed.D. (*Temple University*), Professor, Vocational-Industrial Education, Vocational Education
- Blucker, Judith A., Ph.D. (*Florida State University*), Associate Professor, Health and Physical Education, and Assistant Dean
- Campbell, Richard, Ed.D. (*Indiana University*), Professor, Childhood Education
- Carpenter, John A., Ph.D. (*University of Southern California*), Associate Vice President for Academic Affairs and 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*), Associate Professor, Psycho-Educational Services
- Cistone, Peter J., Ph.D. (*Pennsylvania State University*) Professor of Educational Administration and Dean
- Crabtree, Myrna P., Ed.D. (*Teachers College, Columbia University*), Professor, Home Economics Education, Vocational Education
- Dempsey, Arthur, Ed.D. (*University of Arizona*), Associate Professor, Childhood Education
- Divita, Charles, Jr., Ph.D. (*Florida State University*), Professor, Adult Education
- Escotet, Miguel Angel, Ph.D. (*University of Nebraska*), Visiting Professor (Courtesy), Educational Leadership and Psycho-Educational Services
- Fain, Stephen M., Ed.D. (*Teachers College, Columbia University*), Professor, Educational Leadership and Human Resources Development
- Farrell, Robert V., Ph.D. (*Teachers College, Columbia University*), Associate Professor, Educational Leadership and Human Resources Development
- Fisher, Allen, Ph.D. (*University of Connecticut*), Associate Professor, Educational Leadership and Human Resources Development
- Friedenberg, Joan, Ph.D. (*University of Illinois*), Visiting Associate Professor, Bilingual Vocational Education, Instructor Training Program.
- Gallagher, Paul D., Ph.D. (*Florida State University*), Associate Vice-President for Academic Affairs and Associate Professor, Educational Leadership and Human Resources Development
- Gardner, Daniel, Ed.D. (*Florida Atlantic University*), Assistant Professor, Adult Education, Educational Leadership and Human Resources Development
- Gavilan, Marisal, Ed.D. (*University of Tennessee*), Associate Professor, Psycho-Educational Services
- Gay, Lorraine R., Ph.D. (*Florida State University*), Professor, Educational Leadership and Human Resources Development, and Associate Dean
- Goldstein, Deborah, Ed.D. (*Georgia State University*), Assistant Professor (Courtesy), Psycho-Educational Services, Bay Vista Campus
- Gonzalez-Quevedo, Arnilda, Ph.D. (*University of North Carolina, Chapel Hill*), Associate Professor, Modern Language Education, Division of Subject Specialization, Assistant Vice-President, Academic Affairs
- Greenberg, Barry, Ph.D. (*New York University*), Associate Professor, Educational Leadership and Human Resources Development
- Hauenstein, A. Dean, Ph.D. (*Ohio State University*), Professor, Industrial Arts, Vocational Education
- Hudelson, Sarah, Ph.D. (*University of Texas, Austin*), Visiting Associate Professor, Psycho-Educational Services
- Kaplan, Joseph E., Ph.D. (*Florida State University*), Assistant Professor (Courtesy), Educational Leadership and Human Resources Development
- Kennedy, Daniel A., Ph.D. (*University of Oregon*), Associate Professor, Psycho-Educational Services
- Kossack, Sharon W., Ph.D. (*University of Georgia*), Associate Professor, Childhood Education (Bay Vista Campus)
- Lazarus, Philip, Ph.D. (*University of Florida*), Assistant Professor, Psycho-Educational Services
- Llewellyn, Jack H., Ph.D. (*Florida State University*), Associate Professor, Health, Physical Education
- Lopez, Richard, Ed.D. (*Florida Atlantic University*), Associate Professor, Health, Physical Education and Recreation
- Lucky, Luretha, Ed.D. (*Arizona State University*), Assistant Professor, Psycho-Educational Services
- McClintock, C. Edwin, Ed.D. (*University of Georgia*), Associate Professor, Mathematics Education
- Margolin, Edythe, Ed.D. (*University of California*), Professor, Childhood Education
- Marshall, Nancy, Ph.D., (*Cornell University*), Assistant Professor, Childhood Education
- Martinez-Perez, Luis A., Ph.D. (*Florida State University*), Associate Professor, Science Education
- Mathewson, Grover, Ph.D. (*University of California at Berkeley*), Associate Professor, Childhood Education
- Mendoza, Alicia, Ed.D. (*University of Miami*), Assistant Professor, Childhood Education (Bay Vista Campus)
- Mohamed Dominic A., Ph.D. (*University of Minnesota*), 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
- Pearson, George B., Ed.D. (*University of Oregon*), Professor, Health and Physical Education
- Pell, Sarah W. J., Ed.D. (*Duke University*), Associate Professor, Educational Leadership and Human Resources Development (Bay Vista Campus)
- Pennington, Clement, Ed.D. (*Pennsylvania State University*), Associate Professor, Art Education
- Pryor, Robert O., Ph.D. (*Florida State University*), Assistant Professor, Vocational-Industrial Education, Vocational Education
- Reichbach, Edward M., Ed.D. (*Wayne State University*), Associate Professor, Childhood Education
- Rembert, Emma W., Ed.D. (*Syracuse University*), Associate Professor, Childhood Education, and Assistant Dean
- Rosenberg, Howard, Ed.D. (*Teachers College, Columbia University*), Associate Professor, Psycho-Educational Services
- Ryan, Colleen A., Ph.D. (*Ohio State University*), Associate Professor, Psycho-Educational Services
- Sandiford, Janice R., Ph.D. (*Ohio State University*), Associate Professor, Health Occupations Education, Vocational Education
- Shostak, Robert, Ph.D. (*University of Connecticut*), Professor, English Education
- Smith, Donald C., Ph.D. (*Syracuse University*), Professor, Psycho-Educational Services
- Sowards, G. Wesley, Ed.D. (*Stanford University*), Professor, Distinguished Professor of Education, Educational Leadership and Human Resources Development
- Spector, Barbara, Ph.D. (*Syracuse University*), Assistant Professor (Courtesy), Science and Gifted Education
- Stacek, John J., Ph.D. (*Georgetown University*), Associate Professor, Modern Language Education/TESOL, and Associate Dean, International Affairs Center
- Stinson, John J., Ph.D. (*University of Connecticut*), Assistant Professor, Childhood Education
- Strichart, Stephen S., Ph.D. (*Yeshiva University*), Professor, Psycho-Educational Services
- Sullivan, Zola J., Ph.D. (*University of Illinois*), Associate Professor, Childhood Education
- Tesolowski, Dennis G., Ed.D. (*Auburn University*), Associate Professor, Vocational Special Needs Education, Vocational Education
- Testa, Robert F., Ph.D. (*University of Miami*), Associate Professor, Music Education
- Toomer, Jethro, Ph.D. (*Temple University*), Professor, Psycho-Educational Services
- Tucker, Jan L., Ph.D. (*Indiana University*), Professor, Social Studies Education

Vanover, George W., Ed.D. (*University of Tennessee*), Associate Professor, Business Education, Vocational Education, and Assistant Dean

Vigilante, Nicholas J., Ph.D. (*Ohio State University*), Professor, Childhood Education

Vos, Robert. Ed.D. (*Rutgers University*), Assistant Professor, Technical Education, Vocational Education

Wagner, Michael J., Ph.D. (*Florida State University*), Associate Professor, Music Education

Wells, James D., Ed.D. (*University of Florida*), Associate Professor, Educational Leadership and Human Resources Development

Woods, Sandra L., Ed.D. (*Rutgers University*), Assistant Professor, Educational Leadership and Human Resources Development

Younkin, William F., M.Ed. (*University of Miami*), Instructor (Courtesy), Educational Leadership and Human Resources Development, and University Registrar



# School of Hospitality Management

# School of Hospitality Management

Anthony G. Marshall, *Dean and Professor*  
 Rocco M. Angelo, *Associate Dean and Associate Professor*  
 Leonard Berkowitz, *Associate Professor*  
 Percival Darby, *Assistant Professor*  
 Edwin Dean, *Assistant Professor*  
 Peter Goffe, *Associate Professor*  
 Donald Greenaway, *Distinguished Professor*  
 David Grier, *Assistant Professor*  
 Fritz Hagenmeyer, *Associate Professor*  
 Michael Hurst, *Professor*  
 Richard A. Huse, *Associate Professor*  
 Charles Ilvento, *Associate Professor*  
 Marshall Kosiner, *Visiting Assistant Professor*  
 Lendal Kotschevar, *Visiting Distinguished Professor*  
 Peter Martini, *Associate Professor*  
 Steven Moll, *Assistant Professor*  
 Elisa Moncarz, *Associate Professor*  
 William J. Morgan, Jr., *Professor*  
 Alan J. Parker, *Professor*  
 Nestor Portocarrero, *Assistant Professor*  
 Norman Ringstrom, *Professor*  
 Kevin Robson, *Associate Professor*  
 William Stanford, *Lecturer*  
 Mickey Warner, *Assistant Professor*  
 Theodore White, *Distinguished Lecturer*

The School of Hospitality Management offers Bachelor's and Master's programs that combine practical experience with classroom theory to assist the student to gain the 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.

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

*advance notice. This mini-catalog contains the specific programs and policies of the School, please refer to the General Information section for the University's policies, requirements, and regulations.*

## Admission

The School of Hospitality Management has a recommended four year schedule which will permit freshmen to enroll in hotel-restaurant courses in their first semester, and each following semester, while also registering for general education courses.

Questions concerning curriculum should be addressed to the Dean, School of Hospitality Management.

## UNDERGRADUATE

Any student who has completed two years of college (60 semester hours) may apply for admission. Full credit will be granted 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, education, 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 35 semester hours including the required managerial internship program. A maximum of 9 semester hours of graduate credit may be transferred from any other university or from the graduate programs of this University.

Additional information on admission procedures may be found in the Admission section of the Catalog.

## NON-DEGREE SEEKING STUDENTS

A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a *Non-Degree Seeking Student* for a maximum of 9 credit hours per semester.

## CERTIFICATE PROGRAM

The School has a Certificate Program in Hotel and Restaurant Management and one in Travel and Tourism Management. The programs

are open to international students with a high school education and experience in the industry. A candidate must complete 30 semester hours of course work in a one-year period to earn the certificate. The candidate must submit a satisfactory score on the TOEFL exam or its equivalent and a Certificate of Finances document. Specific courses will be tailored to each candidate's needs.

## Undergraduate Study

The School operates on a single major concept in which a core of 49 semester credits is required of all students. The program requires an additional 15 semester credits of electives. Under this system, the student enjoys maximum flexibility in choosing areas of emphasis while being assured of a comprehensive coverage of all areas of hospitality management.

A maximum of 61 semester credits may be transferred from a junior or community college program.

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

## LOWER DIVISION PREPARATION:

Students should complete a minimum of 60 semester hours including general education requirements. If a student has completed a minimum of 18 semester 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 the 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.

Course Requirements for Bachelor of Science Degree

	Semester Hours
Management, Accounting, Finance & Information Systems	12
HFT 3423 Hospitality Information Systems	3
HFT 3453 Hospitality Industry Management	3
HFT 4464 Interpretation of Hospitality Financial Statements	3
HFT 4474 Profit Planning & Decision Making	3

	Semester Hours
Food and Beverage Management	15
FSS 3221 Introduction to Commercial Food Production	3
FSS 3232 Intermediate Quantity Food Production	3
FSS 3234 Volume Feeding Management	3



FSS 3243	Basic Meat Science	3
HFT 3263	Restaurant Management	3
<b>Administration</b>		<b>21</b>
HFT 3323	Physical Plant Management	3
HFT 3503	Marketing Strategy—Phase I	3
HFT 3514	Marketing Strategy—Phase II	3
HFT 3603	Law as Related to the Hospitality Industry	3
HFT 3700	Fundamentals of Tourism	3
HFT 3945	Advanced Internship	3
HFT 4234	Union Management Relations	3
<b>Electives:</b>		<b>15</b>
		<b>63</b>

## Graduate Study Hotel and Food Service Management

LOCATION: Tamiami Campus.

DEGREE: Master of Science

		<i>Semester Hours</i>
<b>Required Core Courses:</b>		<b>21</b>
HFT 6246	Organizational Behavior in the Hospitality Industry	3
HFT 6586	Research and Statistical Methods	3
HFT 6446	Hospitality Industry Organizational Information Systems	3
HFT 6477	Financial Management for the Hospitality Industry	3
HFT 6296	Seminar in Hospitality Management	3
HFT 6697	Hospitality Law Seminar	3
HFT 6916	Hospitality Industry Project	3
<b>Electives:</b> (5000 and 6000 level)		<b>12</b>
		<b>33</b>

## Course Descriptions

Definition of Prefixes

FOS — Food Science; FSS — Food Service Systems; HFT — Hospitality, Food, Tourism.

### UNDERGRADUATE

**FOS 4201 Sanitation in Food Service Operation** (3)  
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** (3)  
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** (3)  
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. Prerequisites: FSS 3221 or equivalent.

**FSS 3234 Volume Feeding Management** (3)  
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** (3)  
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** (3)  
Fundamentals of meat: quality yield, utilization of cuts, availability, costing, buying, inventorying, packaging, labor, and trends.

**FSS 3272 Beverage Management** (3)  
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** (3)  
A course in the fundamentals of wine technology (viticulture 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** (3)  
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** (3)  
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 pro-

cessing 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** (3)  
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** (3)  
An introduction to the concepts and managerial techniques specifically related to the in-flight 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 familiarized with specific and specialized food service equipment, equipment routing and balance, and transportation methods and procedures.

**FSS 4431 Food Facility Layout and Design** (3)  
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.

**FSS 4614 Food and Beverage Merchandising** (3)  
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** (3)  
A senior course designed to coordinate the various management functions covered in previous courses into a comprehensive approach to profitable food service operations.

**FSS 6365 Food Service Systems** (3)  
Principles of system analysis applied to the food service industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

**FSS 6452 Advanced Food Service Design Operations** (3)  
Advanced planning, programming and project documentation for commercial food service facilities. Spatial, environmental and electro-mechanical design factors are stressed, with particular emphasis on efficiency modulation and investment aspects. Recommended: HFT 3343 or FSS 4431.

**FSS 6834 Food Service Research** (3)  
The planning, executing, and reporting of an

individual research project dealing with significant problems in food service. Students demonstrate an understanding of research techniques through data collection, evaluation, and interpretation.

#### HFT 3000 Introduction to Hospitality Management (3)

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 (3)

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 (3)

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 (3)

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.

#### HFT 3323 Physical Plant Management (3)

A comprehensive survey of engineering, maintenance and efficiency control in hotels, restaurants, and institutions.

#### HFT 3343 Hotel and Restaurant Planning and Design (3)

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 (3)

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 (3)

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 (3)

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 (3)

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 Hospitality Industry Management (3)

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 Strategy—Phase I (3)

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.

#### HFT 3514 Marketing Strategy—Phase II (3)

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 (3)

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 cruises. The course may be followed by a sales management internship. Prerequisite: HFT 3503.

#### HFT 3603 Law as Related to the Hospitality Industry (3)

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 (3)

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.

#### HFT 3713 International Travel and Tourism (3)

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 (3)

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 (3)

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 (3)

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 (3)

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 (3)

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 (3)

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 Associate Dean, students may engage in independent research projects and other approved phases of independent study.

#### HFT 3941 Internship in Hospitality Management (3)

Experience in all the major phases of hospitality operations. Reports are required.

#### HFT 3945 Advanced Internship in Hospitality Management (3)

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 manage-



ment. Structured management experience with an airline, a travel agency, a tour operator, or a cruise line. Report required.

**HFT 4224 Human Relations in the Hospitality Field** (3)  
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 employee-employer relationship.

**HFT 4234 Union Management Relations in the Hospitality Industry** (3)  
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** (3)  
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** (3)  
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** (3)  
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 Controller** (3)  
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** (3)  
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** (3)  
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. Prerequisite: HFT 4464.

**HFT 4485 Seminar in Tax Planning for the Hospitality Industry** (3)  
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** (3)  
A study of the information systems utilized in hospitality operations to provide better management information for analysis and decision-making. 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.

## GRADUATE

**HFT 5476 Feasibility Studies for the Hospitality Industry** (3)  
A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field. Prerequisites: HFT 3503, HFT 4474.

**HFT 5495 Seminar in Hospitality Industry Financial Management Systems** (3)  
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** (3)  
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 Associate Dean, students may engage in independent research projects and other approved phases of independent study.

**HFT 6226 Motivation and Leadership** (3)  
Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance.

**HFT 6246 Organizational Behavior in the Hospitality Industry** (3)  
A survey of the concepts of organizational behavior and industrial psychology theory, from both the research and practical points of view. The course is designed to assist students in making sound decisions in the hospitality area by making them sensitive to the organizational parameters which influence their decisions.

**HFT 6256 International Hotel Operations** (3)  
A consideration of 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** (3)  
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** (3)  
Attention is focused on major problems facing management in today's economy. Special emphasis is placed on the food service industry. Research of the current literature, class analysis, and discussion.

**HFT 6297 Seminar in Management Methods** (3)  
Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

**HFT 6446 Hospitality Industry Organizational Information Systems** (3)  
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** (3)  
Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotel or restaurant enterprises.

**HFT 6477 Financial Management for the Hospitality Industry** (3)  
A study of the principles of financial management and their application to the hospitality industry. Discussion and case studies are used to develop plans for meeting financial needs (short, intermediate and long term) from internal sources or capital markets. Attention is focused on capital budgeting, leasing, franchising, mergers, consolidations, and current financial issues in the hospitality industry.

**HFT 6486 Investment Analysis for the Hospitality Industry** (3)  
Advanced investment methods and opportunities with emphasis on securities of the hospitality industry, financing techniques, syndication, negotiations.

**HFT 6487 Taxation Federal and State** (3)  
A study of state and federal taxation concepts,

including tax management for individuals, partnerships, and corporations engaged in the hospitality field.

**HFT 6586 Research and Statistical Methods (3)**

A study of basic research methodology as applied to a variety of hospitality industry research projects. Techniques for data collection and interpretation, and methods of reporting are considered.

**HFT 6596 Marketing Management (3)**

Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator.

**HFT 6697 Hospitality Law Seminar (3)**

New laws and their impact on the hospitality industry are examined. Students research and publish "industry alert bulletins," explaining the impact of new legislation on the hospitality industry. Prerequisite: HFT 3603 or equivalent.

**HFT 6916 Hospitality Industry Project (3)**

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 (3)**

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.

## School of Hospitality Management

Dean and Professor Anthony G. Marshall  
Associate Dean and Associate Professor Rocco M. Angelo

## Faculty

Angelo, Rocco M., M.B.A. (University of Miami), Associate Dean and Associate Professor, Management

Berkowitz, Leonard, B.A. (University of Maine), Associate Professor, Meat Sciences

Darby, Percival, M.S. (Florida International University), Assistant Professor, Management

Dean, Edwin, Assistant Professor, Union/Management Relations

Goffe, Peter, M.S. (Cornell University), Associate Professor, Marketing

Greenaway, Donald, M.S. (Washington State), Distinguished Professor

Grier, David R., Assistant Professor, Beverage Management

Hagenmeyer, Fritz, G., M.A. (Cornell University), Associate Professor, Hotel Engineering

Hurst, Michael E., M.A. (Michigan State University), Professor, Management

Huse, Richard A., M.S. (Niagara University), Associate Professor, Tourism

Iivento, Charles L., M.B.A., C.P.A. (Cornell University), Associate Professor, Accounting

Kosiner, Marshall S., B.S., (Stetson University), Visiting Assistant Professor, Tourism

Kotschevar, Lendal, Ph.D., (Columbia University), Visiting Distinguished Professor, Management

Marshall, Anthony G., J.D. (Syracuse University), Dean and Professor, Law

Martini, Peter C., M.S. (Florida International University), Associate Professor, Food Management

Moll, Steven V., M.S. (Florida International University), Assistant Professor, Accounting and Information Systems Management

Moncarz, Elisa, B.B.A., C.P.A. (Bernard/Baruch College, City U. of New York), Associate Professor, Accounting

Morgan, William J., Jr., Ph.D. (Cornell University), Professor, Management

Parker, Alan J., Ph.D. (Columbia University), Professor, Information Systems Management

Portocarrero, Nestor, B.B.A. (University of Miami), Assistant Professor, Accounting

Ringstrom, Norman H., Ph.D. (State University of Iowa), Professor, Management

Robson, Kevin, M.S. (Florida International University), Associate Professor, Food Management

Warner, Mickey, M.S. (Florida International University), Assistant Professor, Food Management

White, Theodore, B.S. (Florida International University), Distinguished Lecturer, Club Management



# School of Nursing

# School of Nursing

The School of Nursing offers a professional program of study leading to the degree of Bachelor of Science in Nursing (BSN).

The School is approved by the Florida State Board of Nursing, and is open to generic and R.N. students. Upon graduation, generic students are eligible to write the State Board examination to become registered nurses. R.N. students must be licensed, or eligible for graduate nurse (G.N.) status, at the time of application, according to Florida Statute 464.01.

Upon completion of the nursing program, graduates will be able to:

1. Synthesize antecedent knowledge in providing nursing care to clients throughout the life cycle.
2. Utilize the nursing process in assisting individuals, families and communities to attain optimum wellness.
3. Collaborate with members of the health team in assessing, planning, implementing, and evaluating health care in primary, secondary, and tertiary setting in a multicultural, multiethnic, changing society.
4. Demonstrate accountability in roles of direct care provider, teacher, leader, health care collaborator change agent, citizen, and research consumer as a beginning professional nurse.
5. Evaluate forces that impact on nursing as a profession.
6. Value lifelong learning and professional growth.

## Admission

Applicants to the School of Nursing must submit an Application for Admission to the University and follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the School of Nursing.

All necessary admission documents must be submitted by April 1 of each year preceding the Fall Term admission. Students interested in the nursing major should contact the School to make an appointment with an academic advisor as soon as possible. The School of Nursing is located on the Bay Vista Campus, telephone: (305) 940-5915.

To be admitted to the program, applicants must have an overall GPA of 2.5 or higher from an accredited college or university, and must have completed a minimum of 60 semester hours in lower division course work.

The nursing program is elective. Limitations are set on enrollment on the basis of availability of qualified faculty, classroom and laboratory facilities, and clinical resources for student experiences. Priority is given to Florida residents.

### Semester Hours

1. Introduction to Statistics	3
2. Natural Sciences:	
General Chemistry	8
Organic Chemistry	4
Human Anatomy/Physiology	6
General Bacteriology or Microbiology	4
2. Social Science:	
Introductory Sociology	3
Introductory Psychology	3
3. Language Elective	5

### Scholastic Requirements:

To remain in good academic standing the student must:

1. Maintain an overall cumulative GPA of 2.25 or higher.
2. Achieve a grade of 'C' or higher in the science and nursing courses.
3. Pass *both* theory and clinical components of a nursing course. If the student fails either component, he or she will be required to repeat both areas.

If a student earns below a 'C' in any nursing course, the student cannot progress in the nursing program. The student will be permitted to reapply to the program for the following year.

A student who does not successfully complete a required nursing course will be officially notified of the change in academic status. No more than one readmission is permitted for the total nursing program.

The School reserves the right to terminate a student from the nursing program for reasons related to the inability to safely carry on professional responsibilities.

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

LOCATION: Bay Vista Campus

DEGREE: Bachelor of Science

Required Nursing Courses:

### JUNIOR YEAR

<i>Fall Semester I</i>	<i>Semester Hours</i>
NUR 3610 Approaches to Nursing I	4
NUR 3601L Approaches to Nursing II	
Directed Nursing Practice	4
NUU 3113 Professional Nursing	2
PCB 4701 Socialization	
Human Systemic Physiology	4

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### Spring Semester I

HNU 3017 Nutrition for Health	
Professional	3

NUR 3137 Approaches to Nursing II	
Child Bearing	2
NUR 3137L Approaches to Nursing II	
Child Bearing Directed Practice	2
NUR 3321 Approaches to Nursing III	
Psych/Mental Health Nursing	2
NUR 3321L Approaches to Nursing III	
Directed Practice	2
NUU 3114 Professional Nursing II	
Legal, Ethical and Cultural Considerations	2
SSI 3240 World Prospects and Issues	3

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### Summer Semester

DEP 3000 Human Growth and Development	3
NUR 3125 Approaches to Nursing IV	
Child Rearing	2
NUR 3125L Approaches to Nursing IV	
Directed Practice	2
NUU 3115 Professional Nursing III	
Change Agent	1

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### SENIOR YEAR

<i>Fall Semester</i>	
NUR 4501 Approaches to Nursing V	
Nursing of Adults	4
NUR 4501L Approaches to Nursing V	
Directed Practice	4
NUU 4301 Professional Nursing IV	2
ART Elective	3

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### Spring Semester

NUR 4432 Approaches to Nursing VI	
Community Health Nursing	3
NUR 4432L Approaches to Nursing VI	
Directed Practices	2
NUU 4215 Professional Nursing V	
Leadership	2
NUU 4941 Approaches to Nursing VII	
Leadership Practice	4
Elective	3

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## Course Descriptions

Definition of Prefixes: NUR — Nursing Practice and Theory; NUU — Nursing Universal

### Education Requirements:

The following courses are required for admission to the nursing major:



**NUR 3125 Approaches to Nursing IV:****Child Rearing (2)**

Application of the nursing process to the care of individual and families within the health-illness continuum with special focus on child-rearing. Prerequisites: NUR 3137; NUR 3137L; NUR 3321; NUR 3321L; NUU 3114; NUR 4425. Corequisites: NUR 4425; NUR 3125L; DEP 3000; NUR 3125.

**NUR 3125L Approaches to Nursing IV:****Child Rearing Practice (2)**

Application of the nursing process in selected hospitals, clinics and community setting focusing on child-rearing. Assessment of the pediatric client is emphasized. Prerequisites: NUR 3137; NUR 3137L; NUR 3321; NUR 3321L; NUU 3114. Corequisites: NUR 4425; NUR 3125L; DEP 3000; NUU 3115.

**NUR 3137C Approaches to Nursing II:****Childbearing (2)**

Application of the Nursing Process to the care of individuals and families within the health-illness continuum with special focus on childbearing. Prerequisites: NUR 3610; NUR 3610L; PCB 4701. Corequisites: NUR 3137L; NUR 3321; NUR 3321L.

**NUR 3137L Approaches to Nursing II:****Childbearing Practice (2)**

Application of the Nursing Process in selected hospitals, clinics, and community setting; focuses on child-bearing families. Assessment of the pregnant mother and the newborn are emphasized. Prerequisites: NUR 3610; NUR 3610L; PCB 4701; NUR 3113. Corequisites: NUR 3321; NUR 3321L; NUU 3114.

**NUR 3321 Approaches to Nursing III:****Psychiatric/Mental Health Nursing (2)**

Application of the Nursing Process to the care of individual, families, and groups within the health-illness continuum with special focus on changing psychosocial situations. Prerequisites: NUR 3610; NUR 3610L; PCB 4701; NUU 3113. Corequisites: NUR 3137; NUR 3137L; NUR 3321L; NUU 3114.

**NUR 3321L Approaches to Nursing III:****Psychiatric/Mental Health Nursing (2)**

Application of the Nursing Process in selected health care facilities focusing on secondary and tertiary settings. Emphasis is on mental assessment and resolution of maturational and situational crises. Prerequisites: NUR 3610; NUR 3610L; PCB 4701; NUU 3113. Corequisites: NUR 3321; NUR 3137; NUR 3137L; NUU 3114.

**NUR 3610 Approaches to Nursing I (4)**

Introduction to the Nursing Process and Nursing Care of individuals throughout the life span within the health-illness continuum with special focus on the promotion of optimum wellness. Prerequisite: Admission to the program. Corequisites: NUR 3610L; NUU 3113; PCB 4701.

**NUR 3610L Approaches to Nursing I:****Directed Nursing Practice (4)**

Introduction to college and clinical laboratories. Focus is on beginning skills and the application of components of the nursing process

to assist in the promotion of optimum wellness. Prerequisite: Admission to the program. Corequisites: NUR 3610; NUU 3113; PCB 4701.

**NUR 4432 Approaches to Nursing VI:****Community Health Nursing (2)**

Evaluation of the nursing process to the care of individuals, families, and groups within the health-illness continuum with special focus on the community and health care systems. Prerequisites: NUU 4301; NUR 4501; NUR 4501L; NUR 4424. Corequisites: NUU 4200; NUR 4432L; NUU 4941.

**NUR 4432L Approaches to Nursing IV:****Community Health Nursing Practice (2)**

Application and evaluation of nursing process in primary, secondary, and tertiary health care settings, focusing on families and groups in the community. Assessment of community health care needs are emphasized. Prerequisites: NUU 4301; NUR 4501; NUR 4501L; NUR 4424. Corequisites: NUU 4200; NUR 4432; NUU 4941.

**NUR 4501 Approaches to Nursing V:****Nursing of Adults (4)**

Evaluation of the nursing process to the care of individuals and families within the health-illness continuum focusing on severe maladaptation and emphasizing adaptation to later maturity. Prerequisites: NUR 3125; NUR 3125L; NUU 3115. Corequisites: NUR 4501L; NUU 4301.

**NUR 4501L Approaches to Nursing V:****Nursing of Adults: Practice (4)**

Development of physical assessment skills in the college lab are stressed. Use and evaluation of the nursing process in selected clinical settings. Assessment of the critically ill and gerontological client emphasized. Prerequisites: NUR 3125; NUR 3125L; NUU 3115. Corequisites: NUU 4301; NUR 3125L.

**NUR 3113 Professional Nursing:****Socialization (2)**

Socialization into the role of professional nursing is introduced. The teaching-learning process is explored with emphasis on the student's responsibilities as an independent learner. Prerequisite: Admission to the program. Corequisites: NUR 3610; NUR 3610L; PCB 4701.

**NUR 3114 Professional Nursing II: Legal,****Ethical and Cultural Consideration (2)**

This course continues to address professional dimension in nursing. Emphasis is on legal, ethical, and cultural considerations using group dynamics. Prerequisites: NUR 3610; NUR 3610L; PCB 4701; NUU 3113. Corequisites: NUR 3137; NUR 3137L; NUR 3321.

**NUR 3115 Professional Nursing III:****Change Agent (1)**

Investigation of the role of the professional nurse as change agent. Prerequisites: NUR 3424; NUR 3321; NUR 3321L; NUR 3137; NUR 3137L. Corequisites: NUR 3125; NUR 3125L; DEP 3000.

**NUU 4215 Professional Nursing V:****Leadership (2)**

This course is designed to refine critical thinking and decision making of professional nurses in leadership roles in a variety of health care settings. Prerequisites: NUU 4301; NUR 4501; NUR 4501L. Corequisites: NUR 4432; NUR 4432L; NUU 4941.

**NUU 4301 Professional Nursing: Research (2)**

Interrelationship of problems solving, decision making, and the nursing process are explored in identifying the role of the professional nurse as research consumer. Prerequisites: NUR 3125; NUR 3125L; NUU 3115. Corequisites: NUR 4501; NUR 4501L.

**NUU 4941 Approaches to Nursing VII:****Leadership Practicum (4)**

Transition from student to graduate role is provided through leadership experience in an elected setting which allows synthesis of knowledge, skills, and understandings. Assessment of nursing care modalities are emphasized. Prerequisites: NUU 4301; NUR 4501; NUR 4501L; NUR 4424. Corequisites: NUU 4200; NUR 4432; NUR 4432L.

**School of Nursing**

Dean

Linda Agustin Simunek

**Faculty**

Linda Agustin Simunek, R.N., Ph.D., (*Loyola University of Chicago*), Professor and Dean

Sandra Spiegel Bauman, R.N., M.S., (*Barry College*), Instructor

Shirley A. Belock, R.N., Ed.D., (*Nova University*), Associate Professor

Gloria Blackmon, R.N., M.S.N., (*Case Western Reserve University*), Associate Professor  
Rosebud L. Foster, R.N., Ed.D., (*University of Miami*), Professor and Vice-Provost, Bay Vista Campus

Betty Glusman, R.N., M.S.N., M.Ed., (*T.C. Columbia University*), Assistant Professor

Mary Johnson Montgomery, R.N., M.N., (*U.C.L.A.*), Associate Professor  
Avis B. Rabin, R.N., M.A., (*T.C. Columbia University*), Assistant Professor

Donna Safian, R.N., M.S.N., (*University of Miami*), Assistant Professor  
Rosa N. Thornton, B.S., (*Florida International University*), Nursing Laboratory Coordinator





# 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 both the baccalaureate and master degrees.

**I. ADMISSION REQUIREMENTS**  
UNDERGRADUATE AND GRADUATE  
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 EXPERIENCES**  
As an integral part of the program curriculum, the student may be provided supervised learning experiences in community service agencies. The clinical and field work experience is one of orientation, observation and practice in the particular program specialty of Public Affairs and is structured concurrently with relevant classroom experiences. Numerous community organizations provide opportunities for student internships and field practices.

**IV. CONTINUING EDUCATION AND SPECIAL PROGRAMS**  
The School of Public Affairs and Services, in cooperation with the Division of Continuing Education, offers many credit, non-credit, and workshop courses in Off-Campus locations in Dade, Broward, and Monroe Counties. Courses and locations vary each semester and the departments should be contacted for specific offerings.

*Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. This mini-catalog contains the specific programs and policies of the School, please refer to the General Informa-*

*tion section for the University's policies, requirements, and regulations.*

## Criminal Justice

Robert Snow, Associate Professor and Director

Robert Clark, Professor  
Jose Marques, Associate Professor  
Luis Salas, Associate Professor  
Regina Shearn, Associate Professor  
Ray Surrette, Assistant Professor  
Clinton Terry, 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 government. 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:** Bay Vista Campus  
Courses may be offered on the Tamiami Campus or other locations.

**DEGREE:** Bachelor of Science

**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 meet program and degree requirements, and are consistent with the long range academic and career objectives.

*Recommended Courses:* 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 60 semester 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 Director with the recommendation of the student's faculty advisor.

The core courses are:

CCJ 3011	Nature and Causes of Crime	3
CCJ 3101	Law Enforcement	3
CCJ 3290	Judicial Policy Making	3

CCJ 3301	Correctional Philosophy	3
CCJ 3700	Methods of Criminal Justice Research	3
CCJ 4251	Criminal Justice and the Constitution	3

*Area of Interest:* See explanation below<sup>1</sup> 18  
*Specific Electives:* See explanation below<sup>2</sup> 9

*General Electives:* See explanation below<sup>3</sup> 15

<sup>1</sup>*Area of interest:* 18 semester hours at the 3000 level or above in criminal justice are required for criminal justice majors. Only 9 semester hours of CCJ 4940 will count toward this requirement.

<sup>2</sup>*Specific electives:* nine semester 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:* 15 semester hours are required. No more than 9 hours can be Criminal Justice courses. Relevancy of elective courses will be determined in consultation with the student's advisor or the Director. 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 Director.

(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 a minimum grade of 'C' in all CCJ Core Courses.

Criminal Justice majors are advised to complete all core requirements in the early stages of semester study in order to insure completion for graduation.

## Transfer Credit

A student transferring from a four year college may transfer up to 84 semester hours into the Criminal Justice Program; however, the student must still have at least 60 semester hours at the 3000 level or above. All work transferred to FIU is subject to review and approval by the Criminal Justice Director. Criminal Justice courses completed with a grade of "D" will not be transferred.

## Double Majors and Degrees

Students must complete the core courses (18 hours) plus 18 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 30 appropriate semester hours beyond the requirements of one degree have been earned).



**PRE-LAW CONCENTRATION**

*Pre-law Concentration Core Requirements:* Same as requirements for a bachelor's degree in Criminal Justice (18 semester hours).

*Criminal Justice Elective:* The student shall complete a minimum of 18 semester hours of the following selected Criminal Justice course work:

	<i>Semester Hours</i>
CCJ 3271 Criminal Procedure	3
CCJ 3291 Judicial Administration	3
CCJ 3501 Juvenile Delinquency, Prevention and Control	3
CCJ 3934 Contemporary Issues in Criminal Justice	3
CCJ 4032 Crime and the Media	3
CCJ 4251 Criminal Justice and the Constitution	3
CCJ 4280 Law and Criminal Justice	3
CCJ 4282 Legal Issues in Corrections	3
CCJ 4910 Independent Research in Criminal Justice	3
CCJ 4940 Field Work and Special Projects	6
CCJ 5216 Criminal Law	3
CCJ 5275 Criminal Procedure	3
CCJ 5286 Comparative Law	3

*Specific Electives:* Same as requirements for a bachelor's degree in Criminal Justice (9 semester hours).

*General Electives:* Same as requirements for a bachelor's degree in Criminal Justice (15 semester hours).

\*Upon Consultation with the Criminal Justice advisor, students may be granted the opportunity to formulate a more intensive Pre-law Program of Study.

**Minor in Criminal Justice**

A five course minor in criminal justice is available to baccalaureate degree-seeking students who are interested in careers in the criminal justice field. The courses that comprise the minor will provide students with the opportunity to relate to the special concerns of law enforcement, corrections, and the judicial systems. The minor is available on both campuses.

*Requirements:* Fifteen semester hours in criminal justice. The classes are to be selected from the following course list:

	<i>Semester Hours</i>
CCJ 3011 Nature and Causes of Crime	3
CCJ 3020 An Overview of Criminal Justice	3
CCJ 3101 Law Enforcement Systems	3
CCJ 3271 Criminal Procedure	3
CCJ 3290 Judicial Policy	3
CCJ 3291 Making Judicial Administration—Criminal	3
CCJ 3301 Correctional Philosophy, Theory & Practice	3

CCJ 3302 Correctional Treatment Programs	3
CCJ 3320 Community Based Treatment	3
CCJ 3342 Offender Counseling	3
CCJ 3450 Institutional Organization and Administration	3
CCJ 3460 Human Resources in Criminal Justice	3
CCJ 3461 Developing Interpersonal Communication	3
CCJ 3470 Criminal Justice Planning	3
CCJ 3501 Juvenile Delinquency, Prevention & Control	3
CCJ 3700 Methods of Criminal Justice Research	3
CCJ 3934 Contemporary Issues in Criminal Justice	3
CCJ 4131 Police and the Community	3
CCJ 4251 Criminal Justice and the Constitution	3
CCJ 4280 Law and Criminal Justice	3
CCJ 4282 Legal Issues in Corrections	3
CCJ 4331 Probation, Parole, and Community Programs	3
CCJ 4441 Administration of Correctional Institutions	3
CCJ 4453 Criminal Justice Reform	3
CCJ 4462 Human Relations Training	3
CCJ 4630 Criminal Justice: The International Perspective	3
CCJ 4661 Terrorism and Violence in Criminal Justice	3
CCJ 4662 Criminal Justice and the Minority Community	3
CCJ 4663 Women, Crime, and the Criminal Justice System	3

**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 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, or a total score of 1000 on the Graduate Record Examination (verbal and quantitative) are eligible for unconditional admission to the program. Provisions can be made for admittance as Non-Degree Seeking Students until admissions criteria have been satisfied. Under certain circumstances, exceptions to these standards can be made.

(All applicants must complete the GRE prior to full admission status.)

LOCATION: Both Campuses.

DEGREE: Master of Science.

A. *Degree Credit Requirements:*

The Master's degree in Criminal Justice requires (36) semester hours of credit. A maximum of (6) semester 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 non-thesis options. Those selecting the thesis option are required to complete 27 semester hours of course work and six semester hours of thesis. The non-thesis option consists of 36 semester hours of course work. All candidates must take three core courses.

B. *Specific Program Requirements:*

All course work taken in residence must be in the Criminal Justice Graduate Program, except that with the permission of the Graduate Admissions Committee, a total of not more than six semester hours may be taken in any other relevant graduate program at FIU.

**Core Courses:**

CCJ 5605	Deviance and Social Control	3
CCJ 6055	Seminar in Criminal Justice	3
CCJ 6709	Research Methods	3

**Core Semesters Hours: 9****General Electives Semester Hours: 27**

CCJ 5056	History and Philosophy of Criminal Justice	3
CCJ 5057	Ethics of Criminal Justice	3
CCJ 5216	Criminal Law	3
CCJ 5275	Criminal Procedure	3
CCJ 5286	Comparative Law	3
CCJ 5385	Legal Aspects of Corrections	3
CCJ 5605	Deviance and Social Control	3
CCJ 5669	Race/Ethnicity Crime and Criminal Justice	3
CCJ 6058	Seminar in Criminology	3
CCJ 6105	Seminar in Law Enforcement	3
CCJ 6285	Seminar in Judicial Process	3

CCJ 6365	Seminar in Corrections	3
CCJ 6456	Administration and Management of CCJ Agencies	3
CCJ 6457	Organizational Development in Criminal Justice	3
CCJ 6467	Human Resources Management in Criminal Justice	3
CCJ 6468	Intergroup Relations in Criminal Justice	3
CCJ 6476	Criminal Justice Planning	3
CCJ 6477	Seminar in Information Systems	3
CCJ 6485	Politics and Criminal Justice	3
CCJ 6486	Labor Relations in the CCJ Sector	3
CCJ 6495	Seminar in Court Administration	3
CCJ 6525	Seminar in Juvenile Delinquency	3
CCJ 6635	Seminar in Comparative Criminal Justice	3
CCJ 6665	Seminar in Victimology	3
CCJ 6706	Applied Statistical Techniques for CCJ	3
CCJ 6716	Productivity and Program Evaluation	3
CCJ 6717	Social Implications of Human Evaluation by Criminal Justice Agencies	3
CCJ 6945	Field Research in CCJ	3
CCJ 6971	Thesis Research Prospectus	5
CCJ 6976	Masters Thesis Defense	4

#### Additional Procedures:

All students will select a committee of three graduate faculty members, the student's major faculty advisor being a member and Chairperson of this committee. The major advisor and committee will be responsible for overseeing the student's work while in the master's program. Admission to the program should not be construed as admission to candidacy for a degree. Students may apply for candidacy upon completion of 15 semester hours (including 2 of the 3 core courses). Admission to candidacy should be completed before the student enrolls for the last 12 hours.

#### C. Graduation Requirements:

To receive the Master's degree in Criminal Justice, a student must satisfy all University regulations governing graduate study. Students in the thesis track must be admitted to candidacy and complete the three core courses, and seven general electives, and the thesis. The student may be required to undergo an oral discussion of the thesis. Students in the non-thesis track must be admitted to candidacy and complete the three core courses, and nine general electives.

## Course Descriptions

### Definition of Prefixes

CCJ — Criminology and Criminal Justice.

**CCJ 3011 The Nature and Causes of Crime (3)**  
Social, cultural, behavioral, political, and economic causative 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 3020 An Overview of Criminal Justice (3)**  
A survey of the agencies and process involved in the administration of justice. Interrelationships and functions of the legislative, police, prosecutor, defender, courts, and corrections are examined. (This course is suggested for non-majors and entering students without a criminal justice background.)

**CCJ 3101 Law Enforcement Systems (3)**  
A conceptual study of the American police system.

**CCJ 3271 Criminal Procedure (3)**  
An in-depth study of the 4th through 8th Amendments of the Constitution, and their impact on the criminal justice process.

**CCJ 3290 Judicial Policy Making (3)**  
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 3291 Judicial Administration-Criminal (3)**  
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 3301 Correctional Philosophy, Theory and Practice (3)**

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 3302 Correctional Treatment Programs (3)**

A concentrated study of the various institution-based treatment programs. Emphasis is on the impact and operational aspects of these programs.

**CCJ 3320 Community Based Treatment (3)**  
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.

**CCJ 3342 Offender Counseling (3)**  
A course designed to explore the nature and function of counseling within the correctional setting.

**CCJ 3450 Institutional Organization and Administration (3)**

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 Human Resources in Criminal Justice (3)**

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 (3)**

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 (3)**

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 3501 Juvenile Delinquency, Prevention and Control (3)**

Social dimensions of juvenile delinquency, its nature, scope and distribution. Comparison and analysis of agencies of control and prevention.

**CCJ 3700 Methods of Criminal Justice Research (3)**

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.

**CCJ 3934 Contemporary Issues in Criminal Justice (3)**

An extensive examination of selected contemporary issues in criminal justice. May be repeated.

**CCJ 3949 Cooperative Education in Criminal Justice (3)**

Supervised full time semester work 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: Second semester academic standing.

**CCJ 4032 Crime and the Media (3)**

This course will explore the relationship between the media, crimes, criminals, and the Criminal Justice System. Specifically, the impact of the media and the media's attention on the operation of the C.J.S.

**CCJ 4131 Police and the Community (3)**

A study of the concept of police-community relations, emphasizing the police role in community tension and conflict.



- CCJ 4251 Criminal Justice and the Constitution** (3)  
A study of constitutional issues as they relate to the administration of criminal justice. Emphasis shall be placed upon the case method of study and the establishment of precedent.
- CCJ 4280 Law and Criminal Justice** (3)  
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 4282 Legal Issues In Corrections** (3)  
This course addresses the investigation of legal problems of prisoners, from conviction to release. Emphasis will be placed on the legal problems involved in pre-sentence investigations, sentencing, probation, parole, incarceration, and loss and restoration of civil liberties.
- CCJ 4331 Probation, Parole and Community Programs** (3)  
An examination of the treatment of convicted law violators by the correctional field services, before and after prison.
- CCJ 4441 Administration of Correctional Institutions** (3)  
Theories and techniques of administering correctional institutions, treatment, security, and custody. Social structure of the prison community and inmate social systems. Case studies.
- CCJ 4453 Criminal Justice Reform** (3)  
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 4462 Human Relations Training** (3)  
An experience based course that will prepare selected students to present human relations training programs in criminal justice agencies.
- CCJ 4630 Criminal Justice: The International Perspective** (3)  
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 4640 Organized Crime** (3)  
An intensive study of the secret, conspiratorial activity that eludes the legal apparatus of criminal law enforcement. No prerequisites.
- CCJ 4660 Crime and the Schools** (3)  
An examination of the crime problem in the schools. The course will include crime prevention programs utilized by schools, the nature and extent of crimes committed against students and faculty, crime against the schools (arson and vandalism), and effects to teach students about the law. Attention will also be given to the process by which student offenders are disciplined/punished.
- CCJ 4661 Terrorism and Violence in Criminal Justice** (3)  
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** (3)  
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** (3)  
Women as deviants, criminals, victims and professionals in the criminal justice system.
- CCJ 4752 Introduction to Legal Research** (3)  
Introduction to legal research, its scope, theory and practice. Materials and methods used for specific research goals. No prerequisites.
- CCJ 4900 Directed Readings in Criminal Justice** (1)  
Extensive reading and analysis of selected literature under faculty supervision. Permission of instructor and Program Director required. One credit per semester with a 3 credit cumulative maximum.
- CCJ 4910 Independent Research** (1-3)  
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. (6 credit cumulative maximum)
- CCJ 4940 Field Work and Special Projects** (1-12)  
A course designed to broaden the experiential base, application of theoretical content to criminal justice. Advisor's approval required. (Pass/Fail grading)
- CCJ 4949 Cooperative Education in Criminal Justice** (3)  
Supervised full time work semester 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.
- CCJ 5056 History and Philosophy of Criminal Justice** (3)  
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** (3)  
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. Prerequisite: Admission to the Graduate Program of Criminal Justice or, for undergraduate students, permission of the instructor.
- CCJ 5216 Criminal Law** (3)  
A concentrated study of the substantive criminal law based on concepts, statutes, and cases that are enforced in state and federal courts.
- CCJ 5275 Criminal Procedure** (3)  
A case study of major legal cases dealing with criminal procedure in the United States. No prerequisites.
- CCJ 5286 Comparative Law** (3)  
An analysis of the major legal families of the world. Emphasis shall also be given to legal families which are becoming more important as colonialism comes to a close. No prerequisites.
- CCJ 5385 Legal Aspects of Corrections** (3)  
A study of the contemporary legal problems of convicted offenders, correction staffs, and administrators as they relate to rights granted by case law and statute.
- CCJ 5605 Deviance and Social Control** (3)  
Deviance and Social Control will serve as an introductory core course in the Criminal Justice Masters program. It will cover the major theoretical issues and ideas concerning deviant and criminal behavior and methods of socially controlling these behaviors.
- CCJ 5669 Race/Ethnicity, Crime and Criminal Justice** (3)  
An examination of the concepts of race and ethnicity and the extent to which racism and ethnocentrism are important in understanding the etiology of crime and decisions about offender made by those in the criminal justice system. The course will focus on statistical evidence for disproportionality in crime and explanations offered for differences in rates and types of crime. Attention will also be given to evidence of racial and ethnic discrimination at various points in the system.
- CCJ 6055 Seminar in Criminal Justice** (3)  
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 6058 Seminar in Criminology** (3)  
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 semester. May be repeated.
- CCJ 6105 Seminar in Law Enforcement** (3)  
An analysis of current major hypotheses and problems in law enforcement. Special topics announced at the beginning of each semester. May be repeated.
- CCJ 6285 Seminar in Judicial Process** (3)  
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** (3)  
An analysis of current major hypothesis and problems in corrections. Special topics announced at the beginning of each semester. May be repeated.
- CCJ 6456 Administration & Management of Criminal Justice Agencies** (3)  
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 (3)**

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 (3)**

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 (3)**

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 6476 Criminal Justice Planning (3)**

The planning environment of Criminal Justice is examined. Emphasis is on the role and methods of managing and organizing the planning process applicable to systematizing criminal justice. Case studies are developed.

**CCJ 6477 Seminar in Information Systems (3)**

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 6485 Politics and Criminal Justice (3)**

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 (3)**

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 Court Administration (3)**

An analysis of current major hypotheses and problems in judicial administration. Special topics announced at the beginning of each semester. May be repeated.

**CCJ 6525 Seminar in Juvenile Delinquency (3)**

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 (3)**

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 (3)**

An in-depth study of the criminal-victim relationship.

**CCJ 6706 Applied Statistical Techniques for Criminal Justice (3)**

Statistical tools applicable to criminal justice research are examined. Emphasis is on developing an understanding of the various techniques and their applications. The use of computerized statistical packages will be presented. Prerequisites: STA 3122 and STA 3123, or permission of instructor.

**CCJ 6709 Research Methods (3)**

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 6716 Productivity and Program Evaluation (3)**

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 (3)**

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 (3)**

A course designed to provide selected students an opportunity to engage in action-oriented research within a criminal justice agency on a designated research project.

**CCJ 6971 Thesis Research (3)**

This course is devoted to the actual research labor required for a thesis in the Masters program.

**CCJ 6976 Masters Thesis Defense (3)**

This course is devoted to the effort required to prepare the thesis document.

## Health Services Administration

Joseph Patterson, *Professor and Director*  
Thomas M. Dunay, *Professor*  
Donald E. Davis, *Associate Professor*  
Charles Frankenhoff, *Associate Professor*  
Elizabeth Rivers, *Instructor*  
Vandon White, *Professor*

The Department of Health Services Administration offers graduate and undergraduate studies leading to Bachelors and Masters degrees in Health Services Administration.

The 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 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 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 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.

The Masters program in health care management, by virtue of its academic and field experience requirements, is generally considered a professional degree program. Most graduates will seek immediate employment in a career application of these studies at the central or overall level of administration.

The Master's program is designed so that full-time students may complete all course work in three semesters. The same curriculum can be completed by part-time students within three years. Formal studies stress a basic foundation of professional knowledge, skills and competencies in management, planning, analytic and policy functions of health services. This focus is concerned with application both in the United States and the international setting.

Since 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, community health centers, and related public health and private agencies to give students supervised field experiences and a "practical laboratory" for operational research in health 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:

1) To provide professional studies in the theories, methods and practices of health care management, planning, analysis, applied research, and policy development in health services organizations.

2) To 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 services 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.

5) To conduct scholarly and applied research on various management problems and issues of significance to improving the delivery of health services.

6) 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.

LOCATION: Bay Vista Campus

DEGREE: 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, three year nursing diploma) in lower-division coursework (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. Non-traditional coursework is to be referred to the Department for evaluation.

C. The maximum of lower-division transfer credits is 60 semester hours. Upper division credit hours from another institution or department may be transferred up to a maximum of 30 semester hours toward the fulfillment of required or elective courses in the program.

D. Admitted applicants must meet all general educational requirements of the University, or receive provisional admission. Students with one deficiency will be admitted and applicants with two or more deficiencies will only be admitted with departmental approval.

E. Any other general admissions requirements of undergraduate programs at the University as found in the catalog of the current academic year.

## Internship Requirement

Students electing an administrative internship generally begin their internship in the final semester. If this period of field placement is evaluated by the Department as successful, the student will graduate at the end of that semester provided that all other requirements have been met.

All students must achieve a GPA 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 a mechanism 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.

#### Program Requirements:

Program Total:  
Semester Hours  
60

All Department students completing BHSA 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, Florida International University and the State University System.

LOCATION: Undergraduate courses may be offered on both the Bay Vista and Tamiami campuses as well as appropriate off-campus locations.

#### Semester Hours

I. Core courses required of all students: 27

HCA 3120*	Health and Social Services Delivery System	3
HCA 3501*	Management for Health Professions	3
HCA 4203	Health Care Financing and Accounting Management	3
HCA 4303	Health Care Organization and Administration	3
HCA 4313	Legal Aspects and Legislation in Health Care	3
HCA 4430	Principles & Programs in Public Health	3
HCA 4432	Principles of Applied Epidemiology	3
HCA 4711	Statistical Methods for Health Care	3
HCA 4714	Fundamentals of Health Research Methods	3

\*HCA 3120 is a prerequisite for all health related courses. HCA 3501 is prerequisite for all management courses.

II. Areas of Specialization:

One area of specialization required.

#### Semester Hours

<i>A. Special Care Systems</i>		15
GEY 3002	Issues and Trends in Gerontology	3

HCA 3103	Mental Health and Mental Retardation	3
HCA 4127	Family Health Centers	3
HCA 4612	Program Planning and Evaluation	3
SOW 5643	Understanding the Process of Aging	3
B. Management and Supervision		15
PAD 4104	Organizational and Administrative Theory	3
HCA 4506	Applied Management in Health Care Organization	3
HCA 4511	Human Resource Management	3
HCA 4520	Automated Management and Information Systems	3
HCA 4710	Health Management Systems Engineering	3
C. Health Care Technological Systems		15
HCA 4506	Applied Management	3
HCA 4520	Automated Management and Information Systems	3
HCA 4521	Health Care Computer Applications	3
HCA 4710	Health Management Systems Engineering	3
PAD 3702	Quantitative Techniques for the Public Sector	3
III. Elective Courses**		18
HCA 4115	People, Power and Politics in Health Affairs	3
HCA 4123	Team Approach to Health Services Delivery	3
HCA 4125	Issues and Trends in Health Care Delivery	3
HCA 4905	Independent Study	3
HCA 4930	Special Topics Seminar in Health Services	3
HCA 4940	Administrative Internship	6

\*\*Elective courses may include upper-division courses offered by any University department including departmental courses in an area of specialization not selected by the student.

## Master of Health Services Administration

### Admission Criteria

Students seeking admission into the graduate program must meet the following minimum requirements:

A Bachelor's degree from a regionally accredited university or college. Prerequisites for admission to this program are upper-division coursework in basic accounting and statistics with grade equivalents of "C" or better. (HCA 4203 and HCA 4711 are examples of equivalent courses provided by the Department.)

A "B" or better average in all work attempted while registered as an upper-division student for a baccalaureate degree, or a total score (verbal and quantitative) of 1000 on the Graduate Rec-

ord Examination (GRE), or 500 on the Graduate Management Admissions Test (GMAT). Preference will be given to those who meet both of these qualifications. All graduate applicants to this program are required to take the GRE or equivalent test regardless of previous grade-point average.

Meeting the minimum requirements does not guarantee admission to the program. Admission will be based on additional factors such as space availability, relevant work experience, motivation, successful completion of work as a special student, 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 meet the University graduate admission requirements as stated in the Catalog's General Information section.

All admitted students, whether full or part-time may begin their program of study in any semester, and all applications for admissions should be received by the Department no later than two months preceding the semester in which the student wishes to commence the program. If the admissions process cannot be completed in this time frame, the applicant may register as a non-degree seeking student pending admission.

The Department Admissions Committee will review completed applications and candidates will be notified if they are selected for a personal interview, which will be arranged at the mutual convenience of applicants and University faculty or their designee.

## Degree Requirements

To be eligible for a Master's degree, a student must:

- 1) Satisfy all University requirements for the Master of Health Services Administration Program.
- 2) Complete a minimum of 45 semester hours of graduate-level coursework in the department approved program.
- 3) Earn a minimum GPA 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.
- 5) A maximum of nine semester hour-credits of graduate coursework may be transferred from an accredited university by petition at the time of admission.

## Non-Degree Seeking Student Registration

Non-degree seeking students who wish to register for 5000- and 6000-level courses may do so with the permission of the instructor. University regulations pertaining to non-degree seeking status must be observed.

## Academic Warning, Probation and Dismissal

*Refer to General Information section.*

## Administrative Residency

Candidates for the Master's degree who have not had appropriate administrative experience in a health care organization are encouraged to pursue an administrative residency as a supplement to the Master's program. The residency is required for persons selecting institutional management specialization.\* The responsibility for locating and arranging an approved placement shall be made by the Field Placement Coordinator in conjunction with the student, the semester prior to student enrollment in the residency. The faculty will supervise the student during this period. During this period, the residency will also constitute full-time matriculation in the program and require payment of regular tuition fees for the field placement courses. For more information, reference should be made to the Department Policy and Procedure Statement on the Administrative Residency.

\*Unless waived.

## Master's Research Project Requirement

The Master's Research Project, if taken as an elective, is normally initiated and completed during the second year. Three credits are awarded for this problem-solving analysis written in standard essay form. For more information, reference should be made to the Department Policy and Procedures Statement on the Master's Research Project.

## Program Requirements

DEGREE: Master of Health Services Administration

*Program Total: Semester Hours 45*

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: Graduate courses may be offered on both campuses as well as appropriate off-campus locations.

*Semester Hours*

### I. Core Courses required of all students 21

HCA 5101*	Introduction to Health Services	3
HCA 5713	Statistical Methods for Health Services	3
HCA 6114	Health Politics, Policy and Regulation	3
HCA 6201	Financial Management of Health Systems	3
HCA 6431	Public Health and Environmental Management	3
HCA 6504	Health Care Management Theory and Practice	3

HCA 6508	Organizational Behavior in Managing Health Institutions	3
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\*HCA 5101 is a prerequisite for all departmental graduate courses except for students who have completed the departments Bachelors program. For such students HCA 5101 is waived and an elective will be substituted in the Master's program.

### II. Areas of Specialization (One Area required)

*Semester Hours*

<b>A. Institutional Management</b>			15
HCA 6302	Hospital and Health Facilities		3
HCA 6316	Health Law and Legal Aspects of Management		3
HCA 6505	Personnel Management and Labor Relations		3
HCA 6717	Quantitative Managerial Methods		3
HCA 6719	Advanced Health Services Management and Research Seminar		3

*Semester Hours*

<b>B. Health Planning</b>			15
HCA 6200	Health Economics and Insurance Principles		3
HCA 6434	Methods of Epidemiology		3
HCA 6610	Applied Program Development and Evaluation Methods in Health Services		3
HCA 6611	Health Planning Methods and Techniques		3
HCA 6691	Health Services Planning and Development		3

*Semester Hours*

<b>C. Community Health Services</b>			15
HCA 5425	Long Term Care Administration		3
HCA 6128	HMO and Ambulatory Care Administration		3
HCA 6434	Methods of Epidemiology		3
HCA 6610	Applied Program Development and Evaluation Methods in Health Services		3
HCA 6616	Mental Health Administration and Planning		3

*Semester Hours*

<b>III. Electives*</b>			9
HCA 5135	Emergency Medical Care Systems		3
HCA 5318	Legal Issues and Ethics in Health Care Delivery and Management		3
HCA 6105	Behavioral Aspects of Health and Illness		3
HCA 6117	Policy Science and Health Policy Analysis		3



HCA 6205	Financial Reporting, Review—Reimbursement Systems in Health Care	3
HCA 6206	Methods of Financial Analysis in Health Care Institutions	3
HCA 6509	Advanced Health Care Management Seminar	3
HCA 6613	Design & Functional Planning of Health Facilities	3
HCA 6615	Comparative Health Systems & International Health Planning	3
HCA 6718	Advanced Applications of Operations Research	3
HCA 6732	Masters Research Project	3
HCA 6811**	Administrative Residency	6
HCA 6905	Graduate Independent Study	3

\*Elective courses may include graduate courses offered by any University department including departmental courses in an area of specialization not selected by the student.

\*\*Required for students specializing in Institutional Management, unless waived.

## Course Descriptions

### Definition of Prefixes:

HCA — Health Care Administration

GEY — Gerontology

### GEY 3002 Issues and Trends in Gerontology (3)

This course introduces the students to a study of the aging phenomenon and societal attitudes toward 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 (3)

The student will examine the community mental health services and services for the mentally retarded from a historical, policy, legislative, and systems perspective.

### HCA 3120 Health and Social Service Delivery Systems (3)

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 Professions (3)

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 organization are approached largely through the use of case studies.

### HCA 4115 People, Power and Politics in Health Affairs (3)

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. The make-up of the board of Health Planning Agencies is discussed in terms of the political implications involved. 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 professional is also studied to determine their influence in the political process of community control of health services. The course will also treat health policy development in other nations.

### HCA 4123 Team Approach to Health Service Delivery (3)

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. The structure and operation of team management in health facilities are discussed. Organizational behavior of management teams is discussed. Much of the course is developed experimentally using role-play, simulation gaming and group projects as the predominant instructional approach.

### HCA 4125 Issues & Trends in Health Care Delivery (3)

This course presents the students 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 4127 Family Health Centers (3)

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 4203 Health Care Financial & Accounting Management (3)

This course is designed to help the future health service department-level administrators understand financial management as one of their primary responsibilities. Basic accounting information to make managerial decisions.

### HCA 4303 Health Care Organization & Administration (3)

This course examines health care organization in the U.S. 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; 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 with the objective of improving the existing patterns. Prerequisite: HCA 3120

### HCA 4313 Legal Aspects & Legislation in Health Care (3)

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 professions 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 & Programs in Public Health (3)

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 United States. Prerequisites: HCA 3120, 3501 or 4125.

### HCA 4432 Principles of Applied Epidemiology (3)

The student is introduced to a broad survey of the methods and techniques used by epidemiologists investigating the distribution and causes of infectious and non-infectious 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. Prerequisites: HCA 4430 and 4711.

### HCA 4506 Applied Management in Health Care Organization (3)

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 in depth how formal structure, organizational policies, interprofessional practices, and program resources are combined in making and implementing departmental decisions which support the objectives of the organizational as a whole. Case studies are emphasized as a source of actual problems and situations illustrating operational conditions found in health care settings.

### HCA 4511 Human Resources Management & Supervision (3)

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 & Information Systems (3)

This course is concerned with the analysis, design, and installation of management information systems in health care organizations. Cost-benefit 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 4521 Health Care Computer Applications (3)

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 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 software requirements of high volume data processing situations are examined in hospital operations.

#### HCA 4612 Program Planning and Evaluation (3)

In this course 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.

#### HCA 4710 Health Management Systems Engineering (3)

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 Statistical Methods for Health Care (3)

This course is designed to acquaint administrative health personnel with the fundamental techniques of quantitative analysis. The format and development of course content require a basic foundation in mathematical background in order to build further on the use and application of descriptive and inductive statistics as they contribute to managerial decision-making in health care settings.

#### HCA 4714 Fundamentals of Health Research Methods (3)

This is an introductory course in research methods as applied to the health care field. In

addition to the study of research methods and tools, students complete exercises in literature search, research report analysis covering research design and data analysis and report writing.

#### HCA 4905 Undergraduate Independent Study (1-3)

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 semester preceding the semester planned for the study to begin. Prerequisite: Permission of faculty advisor.

#### HCA 4930 Special Topics Seminar in Health Services (3)

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 semester preceding the semester planned for the study to begin. Prerequisite: Permission of faculty advisor.

#### HCA 4940 Administrative Internship (6)

The student who has completed all required 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: Completion of all curriculum required course work.

#### HCA 5101 Introduction to Health Services (3)

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 in-patient-ambulatory, public-private, clinical-administrative, etc., are examined through weekly two-hour lectures by faculty with varied expertise, followed by weekly two-hour 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 a greater degree in more specialized depth.

#### HCA 5135 Emergency Medical Care Systems (3)

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 guards, etc.).

The second portion of the course will focus on the special skills required of EMS administrators and planners. The approach in this section will switch to a seminar format with variable topic selection depending upon current developments in the field.

#### HCA 5318 Legal Issues & Ethics in Health Care Delivery & Management (3)

The legal basis of regulatory boards and agencies is scanned 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 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. Patients' rights and the role of the patient to make decisions concerning his care are explored. The issues of life and death decisions and the use and role of modern technology and bio-engineering is examined.

#### HCA 5425 Long-Term Care Administration (3)

This course is aimed at offering the student an overview of administration of long-term care health services for elderly (and others with chronic conditions), both at the institutional and community based levels. To give the students a working knowledge of the holistic approach to the care of elderly and long-term care individuals, and the need to coordinate the service modalities available for care, both at institutional and community levels. Also an overview of special needs and problems of individuals who need long-term care. It will include sociological, ethical, political and economic factors associated with long-term care conditions.

#### HCA 5713 Statistical and Research Methods for Health Services (3)

This course deals with concepts of descriptive, inferential and non-parametric statistics, introduction to matrix notation and matrix algebra. Students will use various basic computer packages for matrix manipulation and statistical computations. A separate laboratory for student problem solving and computer training is arranged as part of the studies.

The student is also introduced to the formal study of research design and methodology which applies statistical analysis to problems in health care settings. Surveys are the aspects of formula-



tion of research problems, hypothesis generation and testing, sampling methods, research designs and data analysis. Prerequisite: HCA 4711 or equivalent requiring instructor's permission.

#### **HCA 6105 Behavioral Aspects of Health and Illness (3)**

This course examines man's capacity to adapt to his social, economic, cultural, and psychological environment; and the degrees of health and illness which result. Differing definitions of health and illness impact significantly on health care delivery. Client population behaviors and beliefs can either impede or make effective health care management processes. Individual and professional ability to identify and manage stress is studied. The remedies of holistic health are evaluated.

#### **HCA 6114 Health Politics, Policy and Regulations (3)**

This course examines the power structure of communities and who governs. It also examines the use of consumer rights and consumer participation in making health care decisions.

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 services.

#### **HCA 6117 Policy Science and Health Policy Analysis (3)**

This course is an introduction to Health Policy as seen within the context of the evolution of Social Policy. Building on an analysis of the evolution of national social policy, the course will examine major health policy issues. Various theories of policy making are considered, as well as a study of the various interest groups and processes involved. The course will examine major current health policy issues and examine historical and current efforts to effect change.

#### **HCA 6128 HMO & Ambulatory Care Administration (3)**

The course involves an overview of the management process involved in health maintenance organizations (HMO's) and other group medical practices operating under various financial arrangements, including pre-payment.

Topics include analysis of the organization, delivery and planning of ambulatory care in hospitals, 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. Prerequisites: HCA 5101, 6200, and 6302.

#### **HCA 6200 Health Economics and Insurance Principles (3)**

Economics tends to deal with health systems in a linear fashion, applying traditional micro-economic analysis. This course will apply such analysis to hospitals and medical practice with special attention to the unique health care market. A systems approach will also be employed including cost-benefit and planning, programming, budgeting methodologies. Analysis of the health care production functions will be related issues of cost containment. General principles of health insurance are reviewed from the point of view of the impact of reimbursement incentives on health care and national health insurance.

#### **HCA 6201 Financial Management of Health Systems (3)**

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 organizations. 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 finding, working capital management, capital financing, accounts receivable management, investments, internal auditing and budgeting.

#### **HCA 6205 Financial Reporting, Review & Reimbursement Systems in Health Care (3)**

Financial reporting requirements of health care facilities and programs serve as the primary focus of this course. Cost reporting requirements of medicare, medicaid and private third party payers are analyzed. Requirements of the Annual Report of Hospitals and the Florida Hospital Cost Containment Commission are reviewed. Provisions of cost-based reimbursement and rate review systems are analyzed. Prerequisite: HCA 6201 or permission of instructor.

#### **HCA 6206 Methods of Financial Analysis in Health Care Institutions (3)**

This course is designed for advanced students in health care management who have a need for command of methods and principles of financial and economic impact analysis as tools of managerial decision making. Course content emphasizes both the institutional and community level of decision requirements. Prerequisite: HCA 6201 or permission of instructor.

#### **HCA 6302 Hospital and Health Facilities Organization (3)**

Administrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care facilities. 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 & Legal Aspects of Management (3)**

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.

#### **HCA 6431 Public Health & Environmental Management (3)**

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. Prerequisites: HCA 5101, 6316 or permission of instructor.

#### **HCA 6434 Methods of Epidemiology (3)**

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. Prerequisites: HCA 6431, 5713 or permission of instructor.

#### **HCA 6504 Health Care Management Theory and Practice (3)**

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. Prerequisites: HCA 3501 or equivalent with instructor's permission unless admitted as MHSA program major.

#### **HCA 6505 Personnel Management & Labor Relations (3)**

This course studies personnel structure, practices, and problems in health care 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. 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 6509 Advanced Health Care Management (3)**

This is an advanced study of management aspects of changing technology, organizations, and systems in the health care industry. Students will actively assist in the seminar presentation of such topics as crisis, management, organization development, stress and time management of human factors, and advanced quantitative applications toward the control of complex systems management problems. Prerequisites: HCA 6504 or equivalent with instructor's permission.

**HCA 6508 Organizational Behavior in Managing Health Institutions (3)**

General theories of organizational behavior and executive functions are examined in their application to hospitals and other health agencies. 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. Prerequisite: HCA 6504 or equivalent with instructor's permission.

**HCA 6610 Applied Program Development and Evaluation Methods in Health Services (3)**

This course enters the process of designing grant applications and the study and application of program evaluation methods. Grant designs for governmental and nongovernmental sources of funds will be examined. Methods of program evaluation include Delbecq and Delphi, experimental and quasi-experimental designs, planning programming and budgeting (PPBS), and cost-effectiveness. Case studies will be used.

**HCA 6611 Health Planning Methods & Techniques (3)**

This course focuses on methods which produce informed recommendations for health systems evaluation and change. These include needs assessment through nominal group process and Delphi; identification of health indicators; service location models, demand for forecasting, measurement of hospital performance; evaluation of linear regression, queueing analysis, and value analysis; cybernetic control systems; cost-benefit analysis; measurement of capital investment opportunities; and simulation modeling for cost containment strategies.

**HCA 6613 Design and Functional Planning of Health Facilities (3)**

This course recognizes that the health facility administrator must manage institutional planning for new and/or expanded facilities. Course analysis include needs assessment, long range planning, and functional programming. Design includes short term planning and financial analysis. Execution includes phasing in of growth, regulations, and specific pitfalls. Cost containment strategies, including planning for multi-hospital systems are treated. Case studies and field visits are used as part of a laboratory process in which students plan and program specific facility development.

**HCA 6615 Comparative Health Systems & International Health Planning (3)**

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.

**HCA 6616 Mental Health Administration and Planning (3)**

Mental health planning and administration are essential for the development of community mental health services. This course will give primary attention to the development of a balanced network of community mental health services. Federal, state and local organizations will be identified and evaluated in their role in this enterprise. Population-based planning and categorical planning will be analyzed on a systems process basis including development, implementation, and evaluation. Third party reimbursement incentives will be considered.

**HCA 6691 Health Systems Planning and Development (3)**

This course is an introduction to the formal organization and professional practice of health planning. Health care services are analyzed on a population basis rather than in terms of program categories. Community, regional and systems approaches to integrated planning are explored. Interventions in health systems at these levels are related to social, political and economic forces that interact dynamically.

**HCA 6717 Quantitative Managerial and Applied Research Methods (3)**

This course begins with an overview of research methodology leading in the student's preparation of an outline for a research proposal during the initial period of topics covered. It then introduces the theoretical and practical aspects of operations research techniques, such as linear programming, computer simulation, and decision analysis. The primary objective here is to give students experience in formulating and solving typical management problems, and acquaint them with the advantages and limitations of research and quantitative techniques. The course will make use of case study material and actual operational data from health care institutions so that students may experience some direct skill applications of the methods and techniques. Prerequisite: HCA 5711 or equivalent with permission of instructor.

**HCA 6718 Advanced Applications of Operations Research (3)**

This course teaches various advanced operations research and industrial engineering techniques for health care managers to apply in systems analysis and quantitative decision-making. Methods include game theory, graph and network analysis, critical path and PERT, queueing models, integer and non-linear pro-

gramming techniques, and computer simulation. Optimization techniques and the use of the simplex algorithm in problem-solving are examined as they apply to improved administration functioning in health care settings. Prerequisites: HCA 5713 and 6717 or equivalent with instructor's permission.

**HCA 6719 Advanced Health Services Management and Research Seminar (3)**

This is an integration 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.

**HCA 6732 Masters Research Project (3)**

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 course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisite: Permission of advisor.

**HCA 681I Administrative Residency (6)**

This course is designed to enhance and complement the academic experience of students majoring in the graduate Health Services Administration program. This off-campus learning experience provides an opportunity to link the student's academic studies with actual practice in direct observation and supervised participation of the management processes in a selected health care organization. Students participating in this experience will carry out their assigned tasks under the guidance and direction of a field instructor/preceptor from the host agency, who may hold a voluntary adjunct faculty appointment in the Department of Health Services Administration and School of Public Affairs and Services.

**HCA 6905 Graduate Independent Study (1-3)**

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 semester preceding the semester planned for the study to begin. Prerequisite: Permission of faculty advisor.



## Public Administration

Donald Klingner, Associate Professor and Director

J. Arthur Heise, Associate Professor

Adam W. Herbert, Professor and Dean,  
School of Public Affairs and Services

M. Aman Khan, Assistant Professor

Ralph G. Lewis, Associate Professor

Thomas D. Lynch, Professor

Carmen Mendez, Instructor

Myung S. Park, Associate Professor

Ann-Marie Rizzo, Associate Professor

LOCATION: Bay Vista 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 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 60 semester hours required for the B.F.A. degree.

### UPPER DIVISION PROGRAM:

Required Courses: Semester Hours

PAD 3034	Public Policy and its Administration	3
PAD 3702	Quantitative Techniques for the Public Sector (prerequisites: STA 3122 or COP 3112 or equivalent)	3
PAD 4024	Concepts and Issues in Public Administration	3
PAD 4104	Organization and Administrative Theory	3
PAD 4223	Public Sector Budgeting	3
PAD 4414	Personnel Skills for Administrators	3
PAD 4804	Government and Administration of Metropolitan Areas	3

Note: Students must maintain a 3.0 average in the seven required courses to be awarded the B.F.A.

### Semester Hours

Area of Concentration Courses: 12  
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) Administrative Theory and Behavior (Prerequisite: PAD 4104)

Two of the following:	
PAD 4432	Administrative Leadership and Behavior 3
PAD 4103	Politics of Administrative Organization 3
PAD 3430	Personal Growth and Administrative Development 3
Plus two of the following:	
INP 3002	Introductory Industrial Organizational Psychology 3
SOC 5261	Industrial Psychology 3
SOC 4406	The Problems of Bureaucracy in the Modern World 3

#### (b) Public Personnel (Prerequisite: PAD 4414)

Four of the following:	
PAD 3413	Organizational Group Processes 3
PAD 4415	Administration of Personnel Resources 3
PAD 5427	Collective Bargaining in the Public Sector 3
MAN 4320	Personnel Recruitment and Selection 3
MAN 4330	Wage and Salary Administration 3
MAN 4322	Personnel Information Systems (Prerequisites: CIS 3000 and MAN 4301) 3
INP 3002	Introductory Industrial/Organizational Psychology 3
INP 4203	Personnel Psychology 3

#### (c) Urban Policy and Administration (Prerequisite: PAD 4804)

Four of the following:	
PAD 3033	Administrators and the Legislative Process 3
PAD 4103	Politics of Administrative Organizations 3
POS 3424	The Legislative Process 3
POS 3122	State Government and Politics 3
PUP 4314	American Ethnic Politics 3
POS 4463	Interest Group Politics 3
PUP 4203	Environmental Politics and Policy 3
POS 3153	Urban Politics 3
POS 4154	Topics in Urban Politics and Policy 3

#### (d) International Public Administration (Prerequisite: PAD 3834)

Four of the following:	
MAN 4610	International and Comparative Industrial Relations 3
INR 4283	International Relations, Development and the Third World 3
CPO 4002	Theories in Comparative Politics 3
INR 3002	Dynamics of World Politics 3
INR 4931	Topics in International Politics 3
CPO 4034	The Politics of Development and Underdevelopment 3

#### (e) Public Budgeting and Finance (Prerequisite: PAD 4223)

Four of the following:	
PAD 4032	Public Choice 3
ECO 3101	Theory of Price 3
ECO 4504	Public Choice and the Public Finances 3
ECP 4222	Manpower Problems and Programs 3
ACC 5865	Governmental and Institutional Accounting 3 (Prerequisite: ACC 4122 or ACC 5311 or equivalent)
ACC 3300	Accounting for Decisions 3
HCA 4203	Health Care Financial and Accounting Management 3

#### (f) Public Sector Analysis (Prerequisites: PAD 3034 and PAD 3702)

Four of the following:	
CIS 3000	Introduction to Information Systems 3
HSC 4201	Information Systems 3
QMB 3150	Application of Quantitative Methods in Business 3
COC 3400	Computers and Society 3
HCA 4711	Quantitative Methods for Health Care 3
STA 3163	Introduction to Statistical Analysis I 3
STA 3164	Introduction to Statistical Analysis II 3

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:

(a) Criminal Justice	
Two of the following:	
CCJ 3011	The Nature and Causes of Crime 3
CCJ 3020	An Overview of Criminal Justice Systems 3
CCJ 3101	Law Enforcement Systems 3
CCJ 3301	Correctional Philosophy, Theory and Practice 3

And two of the following:

POS 3603	Constitutional Law: Powers	3
POS 3604	Constitutional Law: Limitations	3
POS 4284	Judicial Behavior	3
POS 4493	Politics of Judicial Administration	3

(b) Applied Urban Administration:

Four of the following:

PAD 4603	Administrative Law	3
PUP 4520	Politics of Urban Transportation	3
ETC 3570	Decision-Making Introduction to Transportation Systems	3
URP 3000	Urban Planning Concepts	3
URP 4021	Urban Land Use Planning	3
ARC 4335C	Site Development	3
POS 4154	Topics in Urban Politics and Policy: Urban and Environmental Policy and Design	3

(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).	3
SOW 3232	Social Welfare Policy and Services I	3
SOW 3313	Methods of Social Work Practice I	3
SOW 4125	Dynamics of Human Behavior in the Social Environment	3
SOW 4233	Social Welfare Policy and Services II (Prerequisites: SOW 3232, SOW 3511 and SOW 3522)	3
SOW 4322	Methods of Social Work Practice II (Prerequisites: SOW 3313, SOW 4124 or their equivalents)	3

Depending on the individual's interests in the field, he or she may select one of the following with the approval of an advisor:

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; at least four concentration and electives courses must be from the Department.

## Minor in Public Administration

A five course minor in public administration is available to baccalaureate degree-seeking students who are interested in careers in public management. The courses that comprise this minor will provide students with the opportunity to develop specialized skills in such areas as urban administration, organizational change, personnel management, and budgeting and financial management. The minor is available on both campuses.

**Requirements:** Fifteen semester hours in public administration. The classes are to be selected from the following course list:

		CREDITS
PAD 3033	Administrators and the Legislative Process	3
PAD 3034	Public Policy and Its Administration	3
PAD 3204	Financing Public Organizations	3
PAD 3413	Organizational Group Processes	3
PAD 3430	Personal Growth and Administrative Development	3
PAD 3702	Quantitative Techniques for the Public Sector	3
PAD 3834	International Comparative Administration	3
PAD 4024	Concepts & Issues in Public Administration	3
PAD 4032	Public Choice	3
PAD 4040	Public Values, Ethics & Morality in Changing Environment	3
PAD 4103	Politics of Administrative Organization	3
PAD 4104	Organization and Administrative Theory	3
PAD 4110	Administrative Interaction in the Public Sector	3
PAD 4223	Public Sector Budgeting	3
PAD 4414	Personnel Skills for Administrators	3
PAD 4415	Administration of Personnel Resources	3
PAD 4432	Administrative Leadership and Behavior	3
PAD 4603	Administrative Law	3
PAD 4804	Government and Administration of Metropolitan Areas	3
PAD 5041	Values & Technology in Modern Society	3
PAD 5256	Economic Aspects of Government	3
PAD 5427	Collective Bargaining in the Public Sector	3
PAD 5435	Administrator and the Role of Women	3
PAD 5443	Public Administration & Media Relations	3

## Master of Public Administration

LOCATION: Both Campuses.

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 better (on a 4.0 scale) for all college coursework on the junior and senior level.

### Program of Study

The Master of Public Administration program is a 39 semester hour program composed of seven required courses (21 semester hours):

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 6417	Public Personnel Administration
PAD 6701	Quantitative Methods and Computer Skills
PAD 6706	Research Methods in Complex Public Organizations
PUP 6005	Public Policy

Any core course may be waived through petition to the faculty. In such cases, students must demonstrate that their performance in previous course work meets or exceeds core course requirements.

The remaining 18 semester 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 I is aimed at persons seeking a more general background in public administration. All non-core courses are arranged into six modules. These modules are not concentrations or specializations, but simply clusters of courses arranged by commonality of subject matter:

<b>Module I: Values and Administration</b>	
PAD 5041	Values and Technology in Modern Society 3
PAD 6042	Democracy and the Administrative State 3
PAD 6605	Administrative Law and Procedures 3



<b>Module II: Organizational Behavior</b>		
PAD 5427	Collective Bargaining in the Public Sector	3
PAD 6109	Organizational Development and Change	3
PAD 6419	Seminar in Applied Public Personnel Management	3
PAD 6437	Dynamics of Individual Growth	3

<b>Module III: Quantitative Management Techniques</b>		
CIS 6204	Management Information Systems	3
PAD 5256	Economic Aspects of Government	3
PAD 6205	Public Financial Management	3
PAD 6229	Advanced Management Techniques	3
PAD 6715	Public Monitoring and Evaluation	3
PUP 6006	Public Policy Analysis and Evaluation	3

<b>Module IV: Administrative Issues</b>		
PAD 5435	Administrator and the Role of Women	3
PAD 5443	Public Administrator and Media Relations	3
PAD 5934	Contemporary Issues in Public Administration	3
PAD 6043	Government and Minority Group Relations	3

<b>Module V: State and Local Governments</b>		
PAD 6807	Urban and Municipal Government	3
PAD 6816	Regional and State Government Administration	3

<b>Module VI: International</b>		
PAD 6225	Comparative Public Budgeting	3
PAD 6836	International Public Administration	3
PAD 6838	Development Administration	3

Students electing Track I will take at least one course from five of these six modules.

Track II is aimed at students who wish to specialize in either personnel management and labor relations, or budget and financial management. Students who elect either of these specializations will take at least five courses approved by the Department.

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 15 semester 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 39 semester hour program is to be chosen from elective courses in Public Administration.

The remaining three semester hours may be taken as either PAD 6907, PAD 6915, PAD 6946, or a scheduled elective course. Pre-service students (those lacking at least one year of related post-baccalaureate professional experience prior to the date of application) are strongly urged to enroll in PAD 6946 (Internship). No more than three hours of PAD 6907, PAD 6915, or PAD 6946 will be credited toward degree requirements.

## 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 (3)

Introduction to the application of computers to information processing problems in organizations. This includes a survey of the basic computer hardware and software concepts necessary for users to work with information processing personnel. The rudiments of a computer programming language will be taught, and applied to data processing problems. Consideration will also be given to the managerial aspects of information systems planning and development.

### PAD 3033 Administrators and the Legislative Process (3)

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 (3)

Examines the formulation, implementation and evaluation of governmental efforts at federal, state, and local levels.

### PAD 3413 Organizational Group Processes (3)

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 (3)

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 (3)

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. Prerequisite: STA 3122, or COP 3112, or equivalent.

### PAD 3834 International Comparative Administration (3)

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 (3)

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 (3)

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 (3)

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 (3)

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 (3)

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 4223 Public Sector Budgeting (3)

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 (3)

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 (3)

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 (3)**

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 (3)**

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 Metropolitan Areas (3)**

An intensive analysis of administrative problems in large complex urban areas encompassing many political entities. Examines overlapping relations 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 (1-6)**

Individual conferences, supervised readings; reports on personal investigations; and similar undertakings. Prerequisites: Consent of faculty sponsor and Department Director required.

**PAD 5041 Values and Technology in Modern Society (3)**

Surveys personal and societal value assumptions in the context of the technological society. Examines organizational-societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationship of the past, present and future is explored, through futurism and forecasting techniques.

**PAD 5256 Economic Aspects of Government (3)**

Application of micro and macro economics, public finance, and economy management to administration of public institutions.

**PAD 5427 Collective Bargaining in the Public Sector (3)**

The course deals with the nature and implications of collective bargaining for managers and employees in (and students of) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

**PAD 5435 Administrator and the Role of Women (3)**

The course is designed for women and men who are interested in moving into management positions, or who have done so and want to broaden their understanding of the changing role of women. Classes will allow for experimental as well as academic exploration of the issues. The course will also explore design, implementation, and evaluation of affirmative action programs.

**PAD 5443 The Public Administrator and Media Relations (3)**

Surveys the government-mass communication media relationship, and then concentrates on

the ways in which public managers handle media relations. Emphasis throughout is placed on questions of information-handling unique to public organizations, involving, for example, adherence to Florida's Sunshine Law and the Federal Freedom of Information Act.

**PAD 5934 Contemporary Issues in Public Administration (1-6)**

An analysis of major conceptual issues currently facing public administrators; course may be repeated.

**PAD 6042 Democracy and the Administrative State (3)**

Juxtaposes the contemporary administrative condition of American government with the values of the democratic state. Different approaches to democracy — in practice as well as in theory — will be analyzed, and their implications for public organizations and individual administrators examined.

**PAD 6043 Government and Minority Group Relations (3)**

Explores the pressing contemporary issue of the relationship between government and minorities. Examines the clash between established institutional values and minority group values, and surveys remedial programs aimed at dealing with the problem. Comparative case studies will be used to analyze public agencies' internal relations with minorities (recruiting, selection, etc.), as well as their different responses to the minority groups they serve.

**PAD 6053 Political, Social and Economic Context of Public Administration (3)**

Examines the context in which public organizations operate, stressing the relationship between such organizations and their multifaceted environment. Emphasis is on examining relevant social and cultural mores and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations.

**PAD 6106 Organization Theory and Administrative Behavior (3)**

Historical perspective and philosophical foundations of contemporary and emerging organization theory and administrative behavior, with emphasis on concepts of administrative leadership, the organization's members and systems, group dynamics, socio-psychological aspects of organization and management.

**PAD 6109 Organizational Development and Change (3)**

Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.

**PAD 6205 Public Financial Management (3)**

Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

**PAD 6225 Comparative Public Budgeting (3)**  
Public budgeting is a common activity in all governments and international organizations. Covers the differences in budgeting and explores patterns implicit in those differences.

**PAD 6227 Public Finance and the Budgetary Process (3)**

Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in inter-governmental financial relations.

**PAD 6229 Advanced Management Techniques (3)**

Advanced techniques of budgeting and financial management in public agencies, including quantitative revenue and expenditure forecasting models.

**PAD 6417 Public Personnel Administration (3)**

This course focuses on the fundamentals of public personnel administration applied to general and specific issues of civil service. Some of the specific issues which will be considered are: the merit system and civil service history and development; manpower development and training; the application of the behavioral approach in personnel administration; unique public personnel management problems; governmental unionization and collective bargaining; and future perspectives in personnel administration.

**PAD 6419 Seminar in Applied Public Personnel Management (3)**

Analysis of advanced technique for staffing, productivity improvement and cutback management; focus on problems faced by federal, state, local and non-profit agencies.

**PAD 6437 Dynamics of Individual Growth (3)**

This course focuses on the importance of small group theory to the personal growth of the administrator, and the role of interpersonal abilities in effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student; and will look at existential theory and the dilemma of personal growth.

**PAD 6605 Administrative Law and Procedures (3)**

Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive order process; the relationship between administrative law and the checks-and-balance system; discretionary justice; and others.

**PAD 6701 Quantitative Methods and Computer Skills (3)**

Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations, and the application of these tools to real-life problems. (No credit will be given to students who have had undergraduate or graduate equivalents.)



**PAD 6706 Research Methods in Complex Public Organizations** (3)  
Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contemporary critiques on research design.

**PAD 6715 Public Monitoring Systems for Government Organizations** (3)  
Focuses on the formal information system which is or can be used to guide a public organization and judge its performance.

**PAD 6807 Urban and Municipal Government Administration** (3)  
Detailed examination of problems facing the municipal administrator; of the pressures upon the contemporary urban environment; and of the administration of large metropolitan areas comprised of numerous entities. Emphasis will be on determination of current trends, discussion of cases, and arrival at suggested solutions.

**PAD 6816 Regional and State Government Administration** (3)  
Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policy-making.

**PAD 6836 International Public Administration** (3)  
The role of public administration systems around the world; and the impact of political and socio-cultural frameworks on administration. Focus on national and state organizations' policies, economics, problems, and possibilities. A review of scope and programs of contemporary international public administration organizations.

**PAD 6838 Development Administration** (3)  
The role of public administration in national development, with specific attention to theories of economic aid from external sources, and the effects of this aid. Theories and policies of economic and social development are explored; and particular attention is given to the role of the United States in strengthening administrative capabilities as an important means for achieving developmental goals in selected countries.

**PAD 6907 Independent Study in Public Administration** (1-6)  
Individual conferences; supervised readings; reports on personal investigations and similar undertakings. Consent of faculty sponsor and Department Director required.

**PAD 6915 Independent Research in Public Administration** (1-6)  
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 Internship** (1-6)  
Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public administration program. Consent of faculty advisor and Department Director required.

**PUP 6005 Public Policy** (3)  
An intensive analysis of the normative theories of public policy making, with emphasis on the processes by which policy choices are made and implemented by government agencies. The current trends and perspectives of effective policy development (such as participatory democracy, multi-valued choice, rationality versus extrarationality, policy environments, and policy roles of proactive public administration) are examined.

**PUP 6006 Public Policy Analysis and Evaluation** (3)  
A framework for evaluating public policy-making will be presented. The emphasis will be on criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures, and nth-order consequences of policies will be analyzed.

## Social Work

R.L. McNeely, *Professor and Director*  
L. Yvonne Bacarisse, *Associate Professor*  
Esther Blynn, *Assistant Professor*  
James E. Garrett, *Associate Professor*  
Rowena Grice-Atkins, *Assistant Professor*  
Mary Helen Hayden, *Assistant Professor*  
Rosa Jones, *Associate Professor*  
Paul K.H. Kim, *Professor and Coordinator of the Undergraduate Program*  
Sanford Kravitz, *Distinguished Professor*  
Monte Koppel, *Professor*  
Roger Lind, *Professor*  
Magaly Queralt, *Associate Professor*  
Betsy Smith, *Associate Professor*

The Department of Social Work offers graduate and undergraduate studies leading to the Masters and Bachelors degrees in Social Work.

This profession requires a high degree of knowledge, skill, and dedication. The desire and ability to work effectively with people and to help solve social problems demands a scientific understanding of society and human behavior; skills of social work practice; and identification with values of the profession.

Location: Bay Vista campus — Courses may be offered on Tamiami campus or other location.  
Degree: Bachelor of Science

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 four semester 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.

## 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:

Required Courses:		Semester Hours
SOW 3113	Dynamics of Human Behavior in the Social Environment I	3
SOW 3125	Dynamics of Human Behavior in the Social Environment II	3
SOW 3232	Social Welfare Policy and Services I	3
SOW 3233	Social Welfare Policy and Services II	3
SOW 3302	Introduction to Social Work Practice	3
SOW 3313	Methods of Social Work Practice I	3
SOW 3403	Methods of Community Research	3
SOW 4322	Methods of Social Work Practice II	3
SOW 4332	Methods of Social Work Practice III	3
SOW 4511	Field Experience I	8
SOW 4512	Field Experience II	8
SOW 4522	Integrative Field Seminar I	1
SOW 4523	Integrative Field Seminar II	1

**Electives:** With approval of the faculty advisor **15**

**60**

**Remarks:** Students should be aware that courses in this program are sequenced. Students must check with their advisors for pre- and co-requisites courses. A grade of C or better in all courses required for the major is necessary for graduation.

## Minor in Social Welfare

A five course minor in social welfare is available to baccalaureate degree-seeking students who are interested in careers in the human services field or who wish to study how common human needs are addressed within social welfare programs. The courses that comprise the minor will provide students with the opportunity to relate to the special concerns of our region, including poverty, crime and delinquency, child abuse and neglect, and family instability. The minor is available on both campuses.

## COURSES

	Semester Hours
SOW 3113	Dynamics of Human Behavior in the Social Environment I
	3

SOW 3125	Dynamics of Human Behavior in the Social Environment II	3
SOW 3232	Social Welfare Policy and Services I	3
SOW 3233	Social Welfare Policy and Services II	3
*SOW 3302	Introduction to Social Work Practice	3
SOW 3305	Techniques of Interviewing	3
SOW 3313	Methods of Social Work Practice I	3
SOW 3675	Social Work Philosophy and Values	3
SOW 3703	Self-Awareness, Self-Modification, and Service	3
SOW 4193	The Systems Approach in the Social Services	3
SOW 4242	Child Welfare Policies	3
SOW 4283	Legal and Administrative Issues in Child Welfare Services	3
SOW 4621	Crises in the Lives of Women	3
SOW 4654	Child Welfare Practices	3
SOW 4658	Permanency Planning in Child Welfare Services	3

\*This course is required for the minor in social welfare. The remaining 12 semester hours are to be selected from the social work courses listed above.

## MASTER OF SOCIAL WORK

The Department offers an integrated program which leads to the degree of Master of Social Work. The program is designed to give the student basic professional education for the practice of social work. All students will be required to acquire or to possess the common base in the areas of professional study considered essential in social work education: human behavior and the social environment, social welfare policies and services, research, and social work practice. The theory acquired in the professional courses will be applied in supervised field experiences in social agencies.

All students will be expected to select one of three specializations — Services to the Elderly, Services to Children and Families, or Administration and Community Development — and to plan a course and field practicum program that supports practice in the specialized field. With the help of faculty, students will develop individualized programs in the specializations that seem most likely to meet their educational needs and contribute to their professional objectives.

The Master of Social Work program is a 58 semester hour program composed of 31 semester hours of the required common base in the first year and 27 semester hours of specialization courses in the second year. The advanced standing Master of Social Work is a 38 semester hour program composed of 11 semester hours of required courses (SOW 5237, SOW 5366, and PAD 6106), and 27 semester hours of Concentration courses.

For additional information regarding the graduate social work program of study and degree requirements contact the Department directly.

The program has applied for candidacy for accreditation by the Council on Social Work Education.

## ADMISSION REQUIREMENTS:

Applicants to the graduate program are required to meet the minimum standards set forth by the Florida Board of Regents and the Graduate Social Work Program. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude Tests of the Graduate Record Examination or at least a "B" (3.0 on a 4 point scale) average in all upper-level division work. Application procedure for admission to graduate study will be found in the discussion of university procedure for admission to graduate study in the current FIU catalog. An application to the social work graduate program, a personal narrative and three letters of reference will be required for admission. All applicants should have had at least one college-level course in sociology, and/or cultural anthropology, psychology, political science (American Government), economics, and statistics.

Applicants with a B.S.W. degree from a program accredited by the Council on Social Work Education will be considered for admission to advanced standing. Advanced standing is not automatically granted. It is subject to the following additional requirements: An 11 semester hour summer session, successful completion of the summer session with grades of "B" or better. Final admission to the second year program will be governed by successful completion of the special summer session.

All applicants must be approved for admission by the faculty of the Department of Social Work.

## GRADUATE PROGRAM:

### Common Required Courses: (31)

SOW 5105	Human Behavior and the Social Environment	3
SOW 5165	Human Behavior and the Social Environment	3
SOW 5235	Social Welfare Policy I	3
SOW 5236	Social Welfare Policy II	3
SOW 5342	Social Work Practice I	3
SOW 5344	Social Work Practice II	3
SOW 5404	Basic Research Methodology I	3
SOW 5523	Integrative Field Seminar I	1
SOW 5532	Field Practicum I	6
PAD 6106	Organization Theory and Administrative Behavior	3

### Advanced Standing Required Courses: (11)

SOW 5237	Advanced Social Welfare Policy and Research	4
SOW 5366	Advanced Social Work Practice	4
PAD 6106	Organization Theory and Administrative Behavior	3

## Specialization Requirements: (27)

SOW 5354	Services to Children and Families Techniques for Prevention and Early Intervention	3
SOW 6242	Child and Family Social Policy Issues	3
SOW 6381	Legal Issues in Social Work Practice	3
SOW 6435	Evaluating Social Service Programs I	3
SOW 6655	Advanced Intervention Strategies with Children and Adolescents	3
SOW 6523	Integrative Field Seminar	1
SOW 6535	Field Practicum Elective	8
	Service to the Elderly	
SOW 5643	Understanding the Process of Aging	3
SOW 6245	Social Welfare Policy and Aging	3
SOW 6381	Legal Issues in Social Work Practice	3
SOW 6435	Evaluating Social Service Programs I	3
SOW 6523	Integrative Field Seminar	1
SOW 6535	Field Practicum	8
SOW 6646	Social Services for the Elderly	3
SOW 6647	Social Work Practice with Aging	3

Administration and Community Development  
Please check with the Department for a listing of course requirements.

## Course Descriptions

### Definition of Prefixes

SOW — Social Work.

SOW 3113 Dynamics of Human Behavior in the Social Environment I (3)

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 3125 Dynamics of Human Behavior in the Social Environment II (3)

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 3232 Social Welfare Policy and Services I (3)

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, decision-making processes, and structure of delivery systems serves as a basis for understanding policy assessment. Prerequisite: POS 3044 or its equivalent.



**SOW 3233 Social Welfare Policy and Services II** (3)

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 and SOW 3302.

**SOW 3302 Introduction to Social Work Practice** (3)

An overview of the profession of social work within the institution of social welfare. Historical and philosophical development, field of practice, values, and ethics.

**SOW 3313 Methods of Social Work Practice I** (3)

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 intervention, goal setting, and implementation. Prerequisites: SOW 3113, SOW 3232, SOW 3302, or their equivalents. Corequisite: SOW 3125.

**SOW 3350 Techniques of Interviewing** (3)

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 3403 Methods of Community Research** (3)

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. Prerequisite: STA 3013 or its equivalent.

**SOW 3675 Social Work Philosophy and Values** (3)

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.

**SOW 3703 Self-Awareness, Self-Modification, and Service** (3)

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 I** (3)

A special program permitting social work majors to work in social agencies during alternate semesters, up to a maximum of two semesters. Written reports and supervisory evaluations will be required. This experience may not be substituted

for SOW 4511 or SOW 4512. Prerequisites: Three social work courses and permission of Director.

**SOW 4193 The Systems Approach in the Social Services** (3)

This course focuses on general systems theory and its implications for social service delivery. Emphasis is on systems approach models elaborated for social service system analysis. Prerequisite: Permission of the instructor.

**SOW 4242 Child Welfare Policies** (3)

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 homes — homemaker 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 4283 Legal & Administrative Issues in Child Welfare Services** (3)

Legal & Administrative issues relevant to the evolution of child welfare policies and practices are stressed. Decision-making skills in program planning, budgeting monitoring and evaluation are presented. Prerequisites: SOW 3113, 3232, 4242, or permission of instructor.

**SOW 4322 Methods of Social Work Practice II** (3)

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 4511 and 4522.

**SOW 4332 Methods of Social Work Practice III** (3)

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 4511, SOW 4522, SOW 4322. Corequisites: SOW 4512 and 4523.

**SOW 4511 Field Experience I** (8)

This is the first 315 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 3125, SOW 3233, SOW 3302, SOW 3313, and 3403, or their equivalents. Corequisites: SOW 4522 and SOW 4322.

**SOW 4512 Field Experience II** (8)

This second 315 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 selec-

tively 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 4511, SOW 4522, and SOW 4322. Corequisites: SOW 4332 and SOW 4523.

**SOW 4514 Field Experience III** (4 or 8)

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 4522 Integrative Field Seminar I** (1)

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 3125, SOW 3233, SOW 3313, SOW 3302, and 3403, or their equivalents. Corequisites: SOW 4511 and SOW 4322.

**SOW 4523 Integrative Field Seminar II** (1)

This course is a one-hour seminar to be taken concurrently with SOW 4512, 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 4511, SOW 4522, and SOW 4322, or their equivalents. Corequisites: SOW 4332 and SOW 4512.

**SOW 4621 Crises in the Lives of Women** (3)

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 4654 Child Welfare Practices** (3)

Theories and models of intervention with children and adolescents will be examined within the context of the family. The main focus of the course will be on the special diagnostic and treatment skills necessary for the effective intervention with this client population. Prerequisites: SOW 3125 and SOW 3313 or permission of instructor.

**SOW 4658 Permanency Planning in Child Welfare Services** (3)

Emphasis is on those practice skills needed for implementing permanent plans for children "at-risk." Included are intervention strategies for developing contractual arrangements insuring a child's security. Prerequisites: SOW 3125, 3233, 4322, 4654, or permission of instructor.

**SOW 4905 Individual Study** (1-6)

Individually selected program of supervised personal study related to specific social issues. Prerequisite: Permission of instructor.

**SOW 4949 Co-Operative Education—**

**Social Work II (3)**

A continuation of SOW 3949. Prerequisites: SOW 3949 and permission of Director.

**SOW 5105 Human Behavior and the Social Environment I (3)**

An examination of the psychosocial foundations of social work practice, focusing on the study of human micro system — namely, individuals and families — with emphasis on the analysis of bio-psycho-socio-cultural factors affecting human development and social functioning through the life cycle.

**SOW 5165 Human Behavior and the Social Environment II (3)**

This course continues the examination of the psychosocial foundations of social work practice with focus on the study of human macro systems — namely, groups, organizations, communities, society, and culture — from major theoretical perspectives. The course stresses social change as a basic macro concept and places emphasis on developing understanding of major racial-ethnic groups in our society.

**SOW 5217 Seminar in Social Work (3)**

An exploration of various critical issues of concern to the social work profession. Prerequisite: Permission of instructor.

**SOW 5235 Social Welfare Policy I (3)**

A beginning study of a historical continuum of institutional mechanisms that carry out specific social welfare systems resulting from social policies developed by society in response to social problems. Power, standards, and scarcity issues are identified, while various definitions basic to the social policy field are established and clarified. Basic analytic and evaluative criteria are introduced.

**SOW 5236 Social Welfare Policy II (3)**

A study of the present institutional response to social problems and social policy evolution. Definitions, structure, and modes of financing are considered utilizing various models. Specific delivery systems, such as health, income maintenance, housing, correction and child welfare, are explored. Evaluative criteria are further developed upon the framework used in Social Policy I.

**SOW 5237 Advanced Social Welfare Policy and Research (4)**

Integrates understanding of welfare policy issues with research knowledge and skills. Demonstrates use of social work research in social welfare policy-making and analysis of social service. Prerequisite: Admission to advanced standing.

**SOW 5272 Social Welfare: Cross-Culture Comparisons (3)**

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. Prerequisite: SOW 3232 or permission of the instructor.

**SOW 5354 Techniques for Prevention and Early Intervention (3)**

This course has been designed to enable the student to learn about crisis intervention etiol-

ogy, structure and theory so he/she may acquire some beginning practical knowledge in a sub-specialty. This course is designed for seniors and graduate students. Prerequisite: Senior or graduate standing.

**SOW 5342 Social Work Practice I (3)**

The primary aim of this course is to introduce students to the social work profession and to practice with individuals, families, groups, and organizational systems. The major content areas include: purpose and function of social work, phases of the social work process, values and ethical issues, assessment, and interviewing and recording skills. The material will be presented within a framework that will provide students with the opportunity to view social problems and social work practice in a cross-cultural, multi-ethnic perspective.

**SOW 5344 Social Work Practice II (3)**

This course will continue to build on the knowledge and skills acquired in the first practice course. It will include an in-depth understanding and application of theories, techniques, and strategies dealing with individuals, families, groups, and organizational systems. Didactic materials will be presented within the framework of a laboratory setting. Through this medium, student's ability to understand, synthesize, and apply appropriate skills will be examined.

**SOW 5366 Advanced Social Work Practice (4)**

An examination of select theoretical approaches to social work intervention with individuals, groups, communities and organizations with attention to social structure, social systems theory and socio-cultural variations. Prerequisite: Admission to advance standing.

**SOW 5405 Basic Research Methodology I (3)**

The scientific method as a way of knowing problem-solving in research and social work practice. Basic research principles and procedures, with an emphasis on the assessment process in social work practice settings.

**SOW 5523 Integrative Field Seminar I (1)**

This one-hour seminar, taken concurrently with the first field practicum (SOW 5532), requires students to analyze their field experience and integrate theory and practice. Major only. Corequisite: SOW 5532.

**SOW 5532 Field Practicum I (6)**

Students spend three days a week in supervised practice in a field setting in which they are expected to carry responsibilities for services to individuals, groups, and/or communities. Generic skills are applied in a range of situations in one or more practice areas. Majors only. Prerequisites: SOW 5105, SOW 5535, and SOW 5342, or equivalents. Corequisite: SOW 5523.

**SOW 5643 Understanding the Process of Aging (3)**

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 (3)**

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 (1-6)**

Individually selected program of supervised data collection and analysis. Prerequisite: SOW 3403 or permission of instructor.

**SOW 6236 Advanced Seminar in Social Welfare Policy Analysis (3)**

Implications of national social welfare policy decisions for local social services administration. Field study and situational analysis of policy choice and resulting implementation issues. Prerequisites: Admission to concentration, or permission of instructor. Corequisites: none.

**SOW 6242 Child and Family Social Policy Issues (3)**

A comprehensive overview of the range of child and family policies programs and issues in the U.S.A. in the context of alternative residual and institutional social welfare perspective of policy evolution. Prerequisite: Advanced standing status.

**SOW 6245 Social Welfare Policy and Aging (3)**

An examination of federal/state social welfare policies affecting the quality of life of the elderly, and an overview of the situation of the aged, and policy formulation and implementation processes. Prerequisites: Admission to Specialization and SOW 5643. Corequisite: SOW 5643.

**SOW 6281 Legal Issues in Social Work Practice (3)**

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 6335 Community Development and Urban Practice (3)**

Examines planned change in community development. Emphasizes decision-making in social work practice, including goals, methods, structure, target system and outcome. Prerequisites: Admission to concentration, or permission of instructor. Corequisites: SOW 6387.

**SOW 6351 Intervention Strategies in Marriage and the Family (3)**

This advanced practice course will assist the student in understanding and applying various means of intervention with families. Family systems and various approaches to family therapy will be studied. The influence of cultural and



ethnic differences on child-rearing practices and family life styles will be stressed. Prerequisite: Admission to graduate Concentration.

#### **SOW 6372 Social Work Supervision, Consultation (3)**

Key aspects of the social services supervisory situation explored. Emphasizes supervisory competence, issues facing supervisor and supervisee. Also explores consultation and staff development. Prerequisites: Admission to Concentration or permission of instructor. Corequisites: none.

#### **SOW 6386 Social Program Planning & Development (3)**

Theory and practice of social program planning and development for organizations and communities. Social services to families, children and elderly, especially service needs for which programs don't exist. Prerequisites: Admission to Concentration, or permission of instructor. Corequisite: SOW 6387.

#### **SOW 6435 Evaluating Social Service Programs I (3)**

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 3403 or equivalent.

#### **SOW 6436 Evaluating Social Service Programs II (3)**

Implementation of program evaluation proposal generated in SOW 6435. This seminar will provide actual field experience in data collection, analysis, and program evaluation report writing. Prerequisite: SOW 6435.

#### **SOW 6523 Integrative Field Seminar II (1)**

This one-hour field seminar taken concurrently with the specialization field practicum requires students to analyze their field experience and integrate theory and practice. Prerequisites: SOW 5522 and SOW 5532. Corequisites: SOW 6535 and Advanced Specialization Practice course.

#### **SOW 6535 Field Practicum II (8)**

This field practicum is a 512-clock hour educational experience in an agency setting designed to provide the student an opportunity to develop and practice social work skills in the student's area of specialization. Prerequisites: Admission to advance standing and 3 graduate courses in specialization. Corequisites: SOW 5523, and an advance practice course in the specialization.

#### **SOW 6646 Social Services for the Elderly (3)**

A comprehensive overview of existing public and private social service programs for the elderly, and an in-depth exploration of new service delivery models. Prerequisites: Admission to Specialization, and SOW 5643.

#### **SOW 6647 Social Work Practice with Aging (3)**

The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the

aging population in contemporary society. Prerequisite: SOW 6646. Corequisites: Field Work II, Field Seminar II.

#### **SOW 6655 Advanced Intervention Strategies with Children and Adolescents (3)**

This course will provide concentrated study and application of models of intervention necessary to develop and implement plans for children, adolescents and families within an integrative practice framework. Prerequisite: SOW 6351. Corequisites: SOW 6535 and SOW 6523.

## **Professional Certificate Programs**

### **Certificate in Public Budgeting and Financial Management**

#### **Objectives**

This professional graduate certificate program will be of interest to those with a career focus on public budgeting and financial management. Persons with or without previous graduate degrees should find this program an ideal means to fully understand the field's concepts and techniques.

In an era of cutback management and fiscal restraint, an understanding of these topics is crucial to public administration today.

#### **Admission**

Completion of a baccalaureate degree from an accredited college or university is required. Students must be admitted by the Program Coordinator, who will also be their faculty advisor.

Those students who apply for and are admitted to the Master of Public Administration degree program may also have Certificate courses credited toward Track II specialization in Public Budgeting and Financial Management.

#### **Program of Study**

A total of 15 semester hours.

#### **Core Required Courses**

- PAD 5256 Economic Aspects of Government
- PAD 6205 Public Financial Management
- PAD 6227 Public Finance and the Budget Process
- PAD 6229 Advanced Management Techniques

#### **Optional Courses (one needed)**

- PAD 6225 Comparative Budgeting
- PAD 6915 Public Monitoring System

Students must complete their program of study within three years from the date of admission and receive no less than a 3.0 GPA in their program of study.

These courses are scheduled so students may complete the program within one year.

### **Certificate in Public Personnel Management and Labor Relations**

#### **Objectives**

Public Personnel Management and Labor Relations are two of the most rapidly growing fields in public administration today.

Supervisors need human relations skills to work well with employees and clients in a multi-ethnic society. Personnel managers need to know how to design and improve human resource management as well as how to bargain collectively and resolve grievances.

#### **Admission**

Completion of a Baccalaureate degree from an accredited college or university is required. Students must be admitted to the program by the Program Coordinator, who will also serve as their faculty advisor.

Those students who apply for and are admitted to the Master of Public Administration degree program may also have Certificate courses credited toward Track II specialization in Public Personnel Management and Labor Relations.

#### **Program of Study**

A total of 15 semester hours.

#### **Core Required Courses:**

- PAD 5427 Collective Bargaining in the Public Sector
- PAD 6417 Public Personnel Administration
- PAD 6419 Seminar in Applied Public Personnel Management
- PAD 6437 Dynamics of Individual Growth

#### **Optional Courses (one needed)**

- PAD 5435 Administrator and the Role of Women
- PAD 6043 Government and Minority Group Relations
- PAD 6109 Organizational Development and Change

Students must complete their program of study within three years from the date of admission and receive no less than a 3.0 GPA in their program of study.

These courses are scheduled so students may complete the program within one year.

## **School of Public Affairs and Services**

<i>Dean</i>	Adam W. Herbert
<i>Associate Dean</i>	Yvonne Bacarisse
<i>Assistant Dean</i>	Regina Shearn
<b>Directors:</b>	
<i>Criminal Justice</i>	Robert E. Snow
<i>Health Services</i>	
<i>Administration</i>	Joseph Patterson
<i>Public Administration</i>	Donald Klingner
<i>Social Work</i>	R. L. McNeely

## **Faculty**

Bacarisse, L. Yvonne, M.S.W., A.C.S.W. (Tulane University), Associate Dean, SPAS, Associate Professor, Social work  
 Blynn, Esther, M.S.W., A.C.S.W. (Columbia University), Assistant Professor, Social Work  
 Clark, Robert S., Ph.D. (New York University), Professor, Criminal Justice  
 Davis, Donald, Ed.D. (University of Minnesota), Associate Professor, Health Services Administration

- Dunaye, Thomas M., Dr.P.H. (*U.C.L.A.*), Professor, Health Services Administration
- Frankenhoff, Charles, Ph.D. (*Georgetown University*), M.P.H., (Johns Hopkins University), Associate Professor, Health Services Administration
- Garrett, James, Ph.D. (*St. Louis University*), Associate Professor, Social Work
- Grice-Atkins, Rowena, D.S.W. (*Howard University*), Assistant Professor, Social Work
- Hayden, Mary Helen, M.S.W., A.C.S.W. (*Florida State University*), Assistant Professor, Social Work
- Heise, J. Arthur, Ph.D. (*Syracuse University*), Associate Professor, Public Administration
- Herbert, Adam W., Ph.D. (*University of Pittsburgh*), Dean, SPAS, and Professor, Public Administration
- Jones, Rosa L., M.S.W., A.C.S.W. (*Florida State University*), Associate Professor and Director of Field Instruction, Social Work
- Khan, M. Aman, Ph.D., (*University of Pittsburgh*) Assistant Professor, Public Administration
- Kim, Paul K., D.S.W. (*Tulane University*), Professor and Undergraduate Coordinator, Social Work
- Klingner, Donald E., Ph.D. (*University of Southern California*), Associate Professor and Director, Public Administration
- 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
- Leffland, K. William, D.P.A. (*University of Southern California*), Professor, Public Administration
- Lewis, Ralph G., Ed.D. (*Harvard University*), Associate Professor, Public Administration
- Lind, Roger, Ph.D. (*University of Michigan*), Professor Social Work
- Lynch, Thomas D., Ph.D. (*SUNY, Albany*), Professor, Public Administration
- Marques, Jose A., M.S.W., A.C.S.W. (*Barry College, Miami*) J.D. (*University of Havana*), Associate Professor and Director of Field Internship, Criminal Justice.
- McNeely, R. L., Ph.D. (*Brandeis University*), Professor and Director, Social Work
- Mendez, Carmen, M.P.A. (*Florida International University*), Instructor, Public Administration
- Park, Myung, Ph.D. (*University of Southern California*), Associate Professor, Public Administration
- Patterson, Joseph, Dr. P.H. (*UCLA*), Professor and Director, Health Services Administration
- Queral, Magaly, Ph.D. (*University of Miami*), Associate Professor, Social Work
- Rivers, Elisabeth, Ed.D. (*Nova University*), Instructor, Health Services Administration
- Rizzo, Ann-Marie, Ph.D. (*Syracuse University*), Associate Professor, Public Administration
- Salas, Luis P., J.D. (*Wake Forest University*), Assistant Professor, Criminal Justice
- Shearn, Regina B., Ph.D. (*Florida State University*), Assistant Dean, SPAS, 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 University*), Associate Professor and Director, Criminal Justice
- Surrette, Ray, Ph.D. (*Florida State University*), Assistant Professor, Criminal Justice
- Terry, Clinton, Ph.D. (*University of California*), 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



# College of Technology

# College of Technology

The College of Technology is composed of two schools and four free-standing departments committed to the development of professionals who will serve the community in a wide variety of fields. In addition, there are three units in the College solely devoted to research and other creative activities.

Bachelor's Degree Programs are offered in the following fields of study:

- Apparel Manufacturing
- Architectural Technology
- Civil Engineering
- Communication
- Construction Engineering Technology
- Construction Management
- Dietetics and Nutrition
- Electrical Engineering
- Fire Science and Safety
- Home Economics
- Industrial Technology
- Interior Design
- Mechanical Engineering Technology
- Medical Record Administration
- Medical Technology
- Occupational Therapy
- Physical Therapy

Master's Degrees can also be earned in the following fields of study:

- Dietetics and Nutrition
- Environmental and Urban Systems

Undergraduate Professional Certificates are available in:

- Apparel Manufacturing Management
- Heating, Ventilation and Air Conditioning Design
- Industrial and Labor Relations
- Industrial Safety
- Production and Manufacturing

## PROGRAMS

The programs of the College 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 concurrent to 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 United States.

The College provides each student with the opportunity to develop marketable skills and to obtain an education which will prepare him or her for a rewarding career and personal growth.

Underlying the programs of the College is a recognition 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.

## SPECIAL FEATURES

The College is actively engaged in a number of special programs as a service to the community and the University. One of these activities is a Technical/Vocational Education program in cooperation with the School of Education. Another is the International Association for Hous-

ing 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 College 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 problems. 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 College in 1976 to conduct research to determine methods for producing high quality drinking water.

A Center for Creative Communications and a Center for Labor Research and Studies are also affiliated with the College.

## GENERAL REQUIREMENTS FOR A BACCALAUREATE DEGREE

In order to obtain a Bachelor's degree from the College of Technology, each student must satisfy the following minimum requirements:

1. Obtain a minimum of 120 semester credits including transfer credits. Some majors require more than the minimum number of credits.\*
2. Complete at least 30 semester credits in the College of Technology.
3. Attain a minimum grade-point average of 2.0 on all courses in the College. A grade of "D" in any course taught by the College of Technology and listed as a major requirement must 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 of the State of Florida for the Bachelor's degree.
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 (90 cr.) or at least two semesters prior to application for graduation.
7. Have proficiency in the use of language and mathematics appropriate to his or her program and career objectives.

\*Specific requirements beyond the minimum requirements are described in the sections devoted to the various departments in the College.

## ADMISSIONS AND PROGRAM PLANNING- BACHELOR'S DEGREE. ADMISSION REQUIREMENTS.

All Bachelor's degree programs of the College 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 four-year colleges. The College admits to full junior standing a student who meets one of the following requirements:

1. Associate of Arts degree from an accredited community college.
2. 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 Office for assistance and may be admitted to certain programs.)
3. Junior Level (60 semester 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 60 transfer credits toward the Bachelor's degree. A transfer student from a four-year college may not receive more than 90 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 the student and must be completed by the time the student reaches senior standing or at least two semesters prior to application for graduation. A student who does not comply with this requirement may delay his or her graduation.

## ACADEMIC ADVISORS

A student who has been accepted to a degree program in the College 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 semester) with the advisor is urged to review progress and register for each succeeding semester. Such contact is required until an approved program of study is completed. Special problems of an undecided student major may be referred to the Associate Dean.



## CREDIT FOR NON-TRADITIONAL EDUCATIONAL EXPERIENCE

The College will consider awarding credit for experience of three basic types:

- Compressed courses or training programs such as college seminars, short courses, company seminars, company schools, union apprenticeship schools, and military technical schools.
- Regular courses taken from technical institutes or other institutions where normal transfer credit is not applicable.
- 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 15 semester hours. A student must be fully accepted to a degree program and must have completed at least two semesters 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.

## COOPERATIVE EDUCATION

A Cooperative Education (Co-Op) Program is conducted by the College in conjunction with the Department of Cooperative Education in the Division of Academic Affairs. In this program, a student spends alternate semesters in school full-time and fully employed in industry in a technical position directly related to their major. Academic credit normally three per semester, is given for the work periods, and is counted toward the degree. Students receive full pay for their 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. Co-op students must agree to spend at least three work periods in industry and can complete the upper-division program within two calendar years. Applicants for the program are evaluated by the College and should contact the Associate Dean. Because of the requirement for three work periods, students should enter the program during the first semester of the junior year. Inquiries from lower-division students, prior to transfer to the University, are encouraged since work may be arranged immediately upon enrollment.

## EXTERNAL DEGREE

Some departments in the College participate in the External Degree Program. The individual department should be contacted regarding its participation in the program.

## ACADEMIC APPEAL PROCEDURE

The College endeavors to provide an atmosphere in which the special needs of each student are served. If a student has difficulties in a class or curriculum matter, it should be immediately brought up to the attention of the instructor or advisor. If a resolution is not possible in this way, the student should contact the appropriate Department Chairperson. If the problem still cannot be resolved, the student may appeal to the

Dean of the College by stating the grievance in writing and requesting a review. The Dean may hear an appeal or refer it for consideration by the Appeals Committee appointed for that purpose.

## MASTER OF SCIENCE DEGREE PROGRAMS

The College has two approved Master of Science degrees: Environmental and Urban Systems; and Dietetics. Prospective graduate students should refer to the appropriate section of the catalog, or contact the Master of Science coordinator in either program.

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

# Communication Department

Lillian Lodge Kopenhaver, *Assistant Professor and Acting Chairperson*  
 James E. Couch, *Associate Professor*  
 Eric S. Katz, *Assistant Professor*  
 Mel Kiser, *Assistant Professor*  
 David J. LeRoy, *Professor*  
 David L. Martinson, *Associate Professor*  
 Hank Meyer, *Courtesy Professor*  
 Ralph Renick, *Courtesy Professor*  
 Robert Sanchez, *Courtesy Assistant Professor*

The Department of Communication offers a baccalaureate degree in Communication. A wide variety of experiences are available to students interested in careers in advertising, broadcast management and production, news-editorial (journalism and broadcast news), and public relations. Courses are also offered in film, and a graduate program in communication is planned.

The department seeks to educate and develop communicators who are able to function responsibly in an increasingly complex society. Therefore, the department stresses the mastery of professional skills and an understanding of communication processes.

Course work in the department emphasizes the social, ethical, economic, philosophical and political aspects of the field, as well as vocational skills development.

LOCATION: Bay Vista Campus

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION COURSES:

Applicants to the department should have already completed their associate degree at an accredited two-year college, or have equivalent course work from Florida International University

or another accredited institution. All such previous course work will be evaluated to ascertain that the applicant has met the University's general education requirements. All deficiencies must be completed within the first two semesters. The student must have a minimum GPA of 2.0 in all previous course work.

Applicants are expected to have a command of the English language, obtain a satisfactory grade on the department's English writing and grammar test, and pass the department's typing test. The tests are generally given within two weeks prior to the beginning of each term. The department's office must be contacted for the dates. Students who do not obtain satisfactory grades on either test cannot enroll in JOU 3100, and must enroll in appropriate workshops and courses.

## Transfer Credit Limits

Students entering the program may transfer up to six semester hours of lower division course work in journalism, telecommunication, public relations, advertising, or film. Under exceptional circumstances, the department reserves the right to require an applicant to take JOU 3100, even if the student successfully completed a similar course at another institution.

## Freshman Admission

Upon admission to the University, freshmen are encouraged to meet with the Chairperson of the Department of Communication to discuss what communication courses they may begin taking at the lower division level.

## Acceptable Performance

Only grades of "C" or better in departmental courses shall apply for graduation.

## Core Course Requirements

In addition to any sequence requirements, each student must also enroll in the following:  
 MMC 4200 Mass Communication Law  
 MMC 4602 Mass Media and Society

# News-Editorial (Journalism) Sequence

To prepare students for career mobility, news majors will take courses in both print and broadcast news coverage.

- Besides the core courses, students are required to take the following:  
 JOU 3100 News Reporting

(Grade of C or better is required before admission as News-Editorial major)  
 JOU 3101 Advanced News Reporting  
 JOU 3200 Editing and Makeup  
 JOU 4108 Depth Reporting  
 JOU 4302 Specialty Writing  
 RTV 4302 Broadcast News Reporting

- Students must select two of the following:  
 ADV 3000 Principles of Advertising  
 JOU 3600 Photojournalism  
 MMC 3250 Media Management  
 MMC 4500 History of the Mass Media  
 MMC 4609 Public Opinion and the Mass Media

PUR 3000 Principles of Public Relations  
 RTV 3000 Principles of Telecommunication  
 RTV 3210 Elements of Telecommunication Production

## 3. Minor(s)

a. In consultation with an advisor, the student must develop a coherent series of courses of 15 to 18 credits to comprise a minor. Upon agreement, the Minor Course Plan shall be placed in the student's file. Students are encouraged to consider minors in International Relations, Political Science, Economics, Management, Finance, Marketing, Criminal Justice, Health Services, Environmental Studies, and other areas which will give the student knowledge in a field he or she will be covering as a news professional. Language arts are not recommended.

b. From the department's approved list of courses, the student must select one course from each of the following subject areas: Statistics, Psychology, Economics, Political Science, and Sociology.

## Telecommunication Management Sequence

1. Besides the core courses, students must complete each of the following:

MMC 3250 Media Management

MMC 4253 Advanced Media Management

MMC 4420 Research in the Mass Media

RTV 3000 Principles of Telecommunication

RTV 3210 Elements of Telecommunication Production

RTV 3500 Telecommunication Programming Theory

RTV 4505 Advanced Programming

2. Select one course from the following:

ADV 3000 Principles of Advertising

FIL 3000 Principles of Film

MMC 4609 Public Opinion and the Mass Media

MMC 4995 Media Presentations

PUR 3000 Principles of Public Relations

3. Minor(s)

a. Students must select in consultation with their advisor one course from each of the following from the department's approved list: Accounting, Statistics, Sociology, and Consumer Behavior.

b. Students must minor (for approximately 18 credit hours) in one of the following fields: Management, Marketing, Modern Languages, International Relations, Ethnic Relations, or Consumer Affairs.

## Telecommunication Production Sequence

1. Besides the core courses, students must enroll in the following courses:

MMC 3250 Media Management

RTV 3000 Principles of Telecommunication

RTV 3100 Writing for the Electronic Media

RTV 3210 Elements of Telecommunication Production

RTV 3220 Television Production

RTV 3500 Telecommunication Programming Theory

RTV 4206 Advanced Production Techniques in Telecommunication

2. Students must enroll in one of the following:

ADV 3000 Principles of Advertising

FIL 3000 Principles of Film

PUR 3000 Principles of Public Relations  
RTV 4302 Broadcast News Reporting

3. Minor(s)

a. Students must select from the department's approved course list one course from at least four of the following: History, Art History, English, and Philosophy.

b. Students must minor in one of the following fields: Visual Arts, Performing Arts or Modern Languages, Management, Political Science, History, International Relations, and Sociology.

## Advertising

1. Besides the core courses, students in this sequence are required to take:

ADV 3000 Principles of Advertising

ADV 3101 Print Advertising

ADV 4103 Radio-TV Advertising

ADV 4300 Media Planning

MMC 4995 Media Presentations

RTV 3210 Elements of Telecommunication Production

2. The student must select one of the following:

FIL 3000 Principles of Film

JOU 3100 News Reporting

PUR 3000 Principles of Public Relations

RTV 3000 Principles of Telecommunication

3. Minor(s)

a. Students in this sequence must choose four courses from the department's approved list in the following areas: Accounting, Consumer Behavior, History, Political Science, and English.

b. Students must also minor in one of the following areas: Consumer Affairs, Marketing, Management, Visual Arts, Performing Arts, Modern Languages, and International Relations.

## Public Relations Sequence

1. Besides the core courses, students are required to take the following:

JOU 3100 News Reporting

(Grade of "C" or better is required before admission as a Public Relations major)

JOU 4302 Specialty Writing

JOU 4307 Publications Editing and Design

MMC 4609 Public Opinion and the Mass Media

PUR 3000 Principles of Public Relations

PUR 4800 Public Relations Campaigns

2. The student must select two of the following:

JOU 3101 Advanced News Reporting

JOU 3200 Editing and Make up

MMC 4500 History of the Mass Media

MMC 4945 Communication Internship

PUR 4934 Public Relations Seminar

RTV 3000 Principles of Telecommunication

3. Minor(s)

a. From the department's approved list of courses, the student must select one course from each of the following subject areas: Statistics, Psychology, Economics, Political Science, and Sociology.

b. In consultation with an advisor, the student must develop a coherent series of courses of 15 to 18 credits to comprise a minor. Upon agreement, the Minor Course Plan shall be placed in the student's file. Stu-

dents are encouraged to consider minors in Social Sciences, Business, and Modern Languages. Attention should also be given to the certificate programs available in the College of Arts and Sciences.

## Internships and Practicums

The Department recognizes two kinds of work experience courses: the internship and the practicum. Internships shall be awarded to give recognition for a student's scholarly achievement and to provide a vehicle for further academic growth. The internship is an intensive, structured work experience that allows the student to acquire and/or develop professional vocational skills. Generally, the internship is enrolled in once for three credits. If extenuating circumstances exist, other arrangements can be made, but no more than three internship credits may apply toward graduation. Those applying for an internship should have a 3.0 GPA on courses taken within the department.

The practicum (MMC 4940) is conceptualized as a career alternative exploration vehicle for students seeking knowledge and experience in a career field that may be of potential interest. Only three credits of MMC 4940 can apply toward graduation.

Students who desire to take a practicum should consult their advisor and obtain permission from the Department Chairperson to enroll in the course. Currently all internships are developed and supervised by the Department Chairperson.

## Course Descriptions

### Definition of Prefixes

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

**ADV 3000 Principles of Advertising (3)**  
Survey of the historical development, economic and social aspects of the field.

**ADV 3101 Print Advertising (3)**  
Requirements necessary for graphic presentations in newspaper and magazines. Prerequisite: ADV 3000.

**ADV 4103 Radio TV Advertising (3)**  
The theory and practice of producing advertisements for radio and TV.

**ADV 4300 Media Planning (3)**  
Reviews the strategy of planning media purchases in campaigns.

**FIL 3000 Principles of Film (3)**  
Introduces the film industry, with background structure and functions of the feature film.

**FIL 4202 Film Production (3)**  
A course in 16mm film production. Students will participate in an organized film production including budgeting, scripting, field production, and editing.

**FIL 4230 Film Animation (3)**  
Traces the development of animated film as both entertainment and persuasive medium.



**FIL 4300 History of Non-Fiction Film (3)**  
Study of the documentary and propaganda film as a communication art form.

**FIL 4408 Contemporary Commercial Film (3)**  
Studies the release cycle of current feature films with attention to the American product.

**FIL 4600 Economic Aspects of Film (3)**  
Survey of economic, legal, logistic considerations in producing and releasing feature films.

**FIL 4940 Film Internship (3)**  
Structured field work in selected film industries. Prerequisite: Senior standing.

**FIL 4941 Film Production Practicum (3)**  
Student pursues a structured work experience at a major production house.

**JOU 3100 News Reporting (3)**  
To teach the skills necessary to recognize and produce a good news story. Experience with news values/judgments, AP style, news lead construction, news writing formats, and news-gathering, including working with sources.

**JOU 3101 Advanced News Reporting (3)**  
Controlled field reporting providing experience in source development, interviewing, writing under deadline pressure, and regular critique of student works. Prerequisite: JOU 3100.

**JOU 3200 Editing and Makeup (3)**  
Editing news copy for accuracy, brevity, and clarity, including practice with AP style, copy and proofreading marks. Learning the role and function of the news editor. Design and layout of newspapers pages, including working with art, photographs and headlines, and editing and fitting news copy. Prerequisite: JOU 3100.

**JOU 3600 Photojournalism (3)**  
Study of principles and practices 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 (3)**  
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 4108 Depth Reporting (3)**  
Actual reporting of area governments and civic affairs. Enhancement of interviewing techniques, investigative skills; includes seminars with politicians, government officials, civic leaders, specialty reporters. Prerequisites: JOU 3101 and JOU 3200.

**JOU 4223 Publications Editing and Design (3)**  
Writing, editing, and production of materials in the area of trade, business, industrial, and technical press; with special attention given to style and production of tabloid and magazine format publications, brochures, and newsletters. Prerequisite: Permission of the instructor.

**JOU 4302 Specialty Writing (3)**  
Exploration of a practice in various types of writing, including features, columns, editorials, press releases, brochure copy, and other specialized pieces. Prerequisite: JOU 3100.

**JOU 5806 Student Publications Supervision (3)**  
Designed to assist teachers and advisers of journalism at the high school and junior college level, this course emphasizes the technical aspects of producing student newspapers, yearbooks and magazines, as well as the legal and ethical considerations facing today's adviser. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction.

**MMC 3250 Media Management (3)**  
Reviews the organization of radio, TV, magazine, and newspaper enterprises.

**MMC 4200 Mass Communications Law (3)**  
Study of laws that regulate U.S. mass media, interpretations of these laws through recent court decisions, and discussion of the way communicators work within the statutes of their nation and state.

**MMC 4253 Advanced Media Management (3)**  
A senior level course dealing with case studies of media organizations. Prerequisite: MMC 3250.

**MMC 4302 Comparative Systems of Mass Communication (3)**  
An examination of various national and international mass communications systems and the elements which determine the type of systems currently operating throughout the world.

**MMC 4420 Research in the Mass Media (3)**  
Emphasizes audience research for media industries. Deals with both syndicated data and original studies. Prerequisites: Senior standing and one statistics course.

**MMC 4500 Media History (3)**  
Development of American media from beginnings in Europe to present day; freedom of the press and its relationships to economic, political and social trends in society.

**MMC 4602 Mass Media and Society (3)**  
Investigation of 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 4609 Public Opinion and the Mass Media (3)**  
Study of the communication process, persuasion, and attitude change. Explores the methods of measuring, analyzing, changing, and/or maintaining the public opinion for socially acceptable causes.

**MMC 4613 Effects of the Mass Media (3)**  
Reviews the effects of the media, with special attention to children, minorities, and third world countries.

**MMC 4614 Media Presentations (3)**  
This course provides preparation for students in all phases of advertising campaigns — marketing, research, creative media, and presentations.

**MMC 4905 Independent Study (1-3)**  
Specialized intensive study in an area of special interest to the student. Consent of faculty instructor is required. (Limit of three credits).

**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 4940 Media Practicum (3)**  
Structured field-work experience in a media environment.

**MMC 4945 Communications Internship (3)**  
On-the-job learning activity at selected and approved commercial media. Will include newspapers, magazines, radio and TV stations, agencies, and non-profit organizations. Prerequisite: Consent of advisor.

**MMC 5262 New Technologies of Communication (3)**  
The principle emphasis is upon new technologies and their utilization by non-profit organizations. Of particular interest are cable television, teletext, satellites, videodisk, and telecommunication trade-offs.

**MMC 5445 Research Methods In The Mass Media (3)**  
An advanced course in the design, execution, and utilization of research studies by media practitioners with special emphasis on original proprietary studies.

**MMC 5661 Minorities and the Mass Media (3)**  
A critical review of the role of the mass media as it relates to ethnic, religious, and social minorities in a pluralistic society.

**MMC 5932 Special Topics Seminar (3)**  
A variable topic seminar dealing with issues of interest to the community. Examples are: Rights of High School Journalists; Cable TV; the use of mini-computers in creative communications.

**PUR 3000 Principles of Public Relations (3)**  
An introduction to the theory, history, practice, and future of public relations. A comprehensive study of the field.

**PUR 4800 Public Relations Campaigns (3)**  
An advanced course in application of theory to actual implementation of public relations activities, including preparing press kits, press releases, special events, brochures, and multimedia presentations. Prerequisites: JOU 4307, PUR 3000, or consent of instructor.

**PUR 4934 Public Relations Seminar (3)**  
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. Prerequisites: PUR 3000 and PUR 4800, or consent of instructor.

**RTV 3000 Principles of Telecommunication (3)**  
Review of telecommunication industries, organization, and practice.

**RTV 3100 Writing for the Electronic Media (3)**  
Emphasis placed on writing for broadcast and full program script preparation.

**RTV 3210 Elements of Telecommunication Production** (3)  
Introductory level course on television studio and field production techniques. Major emphasis will be on video field production and editing; composition styles and trends and field production as a distinct form of communication. Students will be required to complete several production assignments.

**RTV 3220 Television Production** (3)  
Greater emphasis on television studio production techniques; composition, script development, direction, lighting, staging, audio, and graphics. Additional emphasis is on video field techniques and incorporation as a studio program element. Students are required to complete several production assignments. Prerequisite: RTV 3210.

**RTV 3500 Telecommunication Programming Theory** (3)  
Introductory course in programming, ratings, and audience analysis.

**RTV 4206 Advanced Production Techniques in Telecommunication** (3)  
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: Permission of instructor and a grade of "B" in RTV 3220.

**RTV 4302 Broadcast News Reporting** (3)  
Reporting, writing, and presenting radio and television news programs; analysis of news and public affairs broadcasting; social responsibility for broadcasters. Prerequisite: JOU 3100.

**RTV 4466 Electronic News Gathering** (3)  
Use of ENG in broadcast journalism. Prerequisite: RTV 4302.

**RTV 4505 Advanced Programming** (3)  
Use of ratings and audience analysis in radio and TV industries.

and skills applicable to each facet of the building industry. As the major factor in the economy, construction plays an important role in society. As such, the programs offered allow the students to understand the scope of this field, and select the specific area that can be effective in their careers.

Articulation agreements have been made with Broward Community College and Miami Dade Community College to facilitate the transfer of graduates of appropriate lower division programs to programs in the Department of Construction.

## Architectural Technology

This program gives the student a multi-disciplinary 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 or 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 program to master level studies at these institutions.

**LOCATION:** Tamiami Campus (some courses available at Bay Vista Campus).

**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), physics, construction materials, architectural design, architectural drawings, building codes — and completion of general education requirements. A minimum grade of "C" is required in prerequisite core courses.

### UPPER DIVISION PROGRAM:

		Semester Hours
Major Requirements *		59
ARC 3450	Architectural Innov. for Construction	3
ARC 3484	Advanced Architectural Drawing and Design I	4
ARC 3586	Building Systems	3
ARC 3786	Survey of Arch. History	3
ARC 4039	Architectural Design	4
ARC 4270	Professional Office Practice	4
ARC 4335	Site Development	4
ARC 4485	Advanced Architectural Drawing and Design II	4
ARC 4590	Structural Design	4
BCN 3402	Mechanics of Materials	3
BCN 3611	Construction Cost Estimating	3

BCN 3703	Management of Construction Projects	3
BCN 3740	Legal Aspects and Construction Labor Law	3
BCN 3761	Specification Writing	4
BCN 3762	Codes & Specifications	3
BCN 4260	Quality Control in Construction	3
BCN 4561	Environmental Control in Buildings	4

\*or demonstrated competency

**Electives:** Selected with an advisor to meet degree requirements and program objectives (minimum required):

(Minimum) 62

## 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:** Both Campuses.

**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. A minimum grade of "C" is required in prerequisite core courses.

**Remark:** A student without this preparation may obtain it while completing the upper division program by taking additional electives.

### UPPER DIVISION PROGRAM:

		Semester Hours
Major Requirements *		53
ARC 3586	Building Systems	3
ARC 4335	Site Development	4
ARC 4590	Structural Design	4
BCN 3240	Construction Methods and Equipment	3
BCN 3611	Construction Cost Estimating	3
BCN 3703	Management of Construction Projects	3
BCN 3720	Construction Costs and Scheduling	3
BCN 3762	Codes and Specifications	3
BCN 4561	Environmental Control in Buildings	4
BCN 4906	Special Topics (advanced estimating)	3
COP 3112	Introduction to Computers	3
ETC 3210L	Soil Mechanics Laboratory	1
ETC 3220C	Soil Mechanics and Foundations	3
ETC 3322C	Advanced Surveying	3
ETC 3410	Determinate Structural Analysis	3
ETG 3520L	Materials Testing	1

## Construction Department

*Iraj Majzub, Professor and Chairperson*  
*Hilmy Adeeb, Visiting Associate Professor*  
*William C. Basset, Visiting Lecturer*  
*Jaime Canaves, Assistant Professor*  
*Bhaskar Chaudhari, Professor*  
*Jack Clark, Professor*  
*Ralph B. Johnson, Assistant Professor*  
*Julio Otazo, Assistant Professor*  
*John Sacco, Visiting Associate Professor*  
*Oktay Ural, Professor (on sabbatical)*  
*Vedat Yerci, Visiting Professor*

The Construction Department is dedicated to the teaching of interdisciplinary areas of Architecture and Building Sciences. The undergraduate and graduate programs, ranging from design to construction implementation, are developed to reflect the needs of the various disciplines



ETG 3530 Strength of Materials 3

ETI 4671 Engineering Economy 3

\*or demonstrated competency

*Electives:* Selected with an advisor to meet degree requirements and program objectives

(minimum required): 7

(Minimum) 60

## 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.

LOCATION: Both Campuses

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. A grade of "C" is required in prerequisite core courses.

*Remark:* A student without this preparation may obtain it while completing the upper division program by taking additional electives, in those fields of deficiency.

<i>Major Requirements *</i>	<i>Semester Hours</i>
ARC 4270 Professional Office Practice	4
ARC 4335 Site Development	4
ARC 4590 Structural Design	4
BCN 3240 Construction Methods and Equipment	3
BCN 3402 Mechanics of Materials	3
BCN 3611 Construction Cost Estimating	3
BCN 3640 Economic Planning for Construction	3
BCN 3703 Management of Construction Projects	3
BCN 3720 Construction Costs and Scheduling	3
BCN 3730 Construction Safety	3
BCN 3740 Legal Aspects and Construction Labor Law	3
BCN 3762 Codes and Specifications	3
BCN 4260 Quality Control in Construction	3
BCN 4561 Environmental Control in Buildings	4
BCN 4906 Special Topics (advanced estimating)	3
BUL 4111 Business Law I	3
ETI 4671 Engineering Economy	3

\*or demonstrated competency

*Electives:* Selected with an advisor to meet degree requirements and program objectives

(minimum required): 5

(Minimum) 60

## 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: Both Campuses.

DEGREE: Bachelor of Science

### LOWER DIVISION PREPARATION:

Completion of an Associate's degree in Interior Design or related area. A minimum grade of "C" is required in prerequisite core courses.

### UPPER DIVISION PROGRAM:

*Major Requirements:* With the approval of the advisor, students must complete a minimum of 61 credits selected from the following list:

<i>Major Requirements *</i>	<i>Semester Hours</i>
ARC 3786 Survey of Architectural History	3
ARC 4039 Architectural Design	4
ARC 4270 Professional Office Practice	4
BCN 3611 Construction Cost Estimating	3
BCN 3740 Legal Aspects & Constr. Labor Law	3
BCN 3761 Specifications Writing	4
BCN 4561 Environmental Control in Building	4
IND 3020 Introduction to Architectural Interiors & Housing	3
IND 3210 Advanced Interior Design I	4
IND 4220 Advanced Interior Design II	4
IND 4221 Institutional Interiors	4
IND 4224 Exhibit and Display Design	3
IND 4311 Media & Methods of Presentation	3
IND 4905 Independent Study (Thesis)	3
MAR 3023 Marketing Management or Equiv.	3
MAR 4503 Consumer Behavior	3

\*demonstrated competency

*Electives:* Selected with an advisor to meet degree requirements and program objectives

(minimum required): 6

(Minimum) 61

## Master of Science in Environmental and Urban Systems

The Urban Planning Systems option of the Master of Science Program in Environmental and Urban Systems is a program dealing with the interdisciplinary nature of built environment, particularly the problems related to housing and urban development. It is designed for those professionals who are already in the field and the new graduates of programs which relate to construction, architecture, construction engineering and urban studies.

LOCATION: Tamiami Campus.

DEGREE: Master of Science

## Course Descriptions

### Definition of Prefixes

ARC — Architecture; BCN — Building Construction; IND — Interior Design; LAA — Landscape Architecture

**ARC 3127 Graphic Communication** (3)  
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 3210 Architectural Concepts of Construction** (3)  
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** (3)  
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: Junior standing.

**ARC 3466 Materials and Methods of Construction** (3)  
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.

**ARC 3484C Advanced Architectural Drawing and Design I** (4)  
Methodology of planning and design of architectural projects, with special emphasis on working drawings and detail drawings. Prerequisite: ARC 3127 or equivalent.

**ARC 3586 Building Systems** (3)  
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** (3)  
Comprehensive study of architectural forms, styles and construction techniques throughout history. Prerequisite: ARC 3466 or equivalent.

**ARC 4039 Architectural Design** (4)  
Integrated study of basic design concepts and principles of design. Development of architectural design products, presentation drawings, plans and quantity surveys. Prerequisite: ARC 3127 or equivalent.

**ARC 4270 Professional Office Practice** (4)  
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 4335 Site Development** (4)  
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: Junior standing or lower level design or drafting.

**ARC 4485 Advanced Architectural Drawing and Design II** (4)  
New techniques in the preparation of working drawings, detail drawings; inclusion of change orders. Preparation of finish schedules, with correlation to specifications writing. Prerequisite: ARC 3484.

**ARC 4590 Structural Design** (4)  
Elements of structural design in steel, reinforced concrete, and timber, with design specifications per AISI, ACI and NDS. Introduction is prestressed concrete design. Loadings and structural elements commonly encountered in construction will be used for analysis and design. Prerequisite: BCN 3402, or equivalent.

**ARC 5336 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 5916 Innovations in Building Technology** (3)  
Experimental approach to new materials and methods applicable to the field of construction. Prerequisite: Consent of instructor.

**BCN 3210 Construction Materials** (3)  
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 construction materials. Prerequisite: Physics.

**BCN 3240 Construction Methods and Equipment** (3)  
Methods, procedures, and equipment used in residential, commercial, and heavy construction.

tion. Equipping the construction plant. Production value analysis. Work effectiveness studies. Prerequisite: Algebra.

**BCN 3257 Exterior Design** (3)  
Exploration and analysis of the relationship of exterior and interior environment. Emphasis on three dimensional design projects using basic model making and presentations.

**BCN 3281 Construction Surveying** (3)  
Principles and practices of surveying as it applies to building construction. Prerequisite: Trigonometry or equivalent.

**BCN 3402 Mechanics of Materials** (3)  
Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Prerequisite: Algebra, Trigonometry or equivalent.

**BCN 3611 Construction Cost Estimating** (3)  
Principles and practices of estimating providing application and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, lath and plaster, interior finishes. Prerequisite: ARC 3466 or equivalent.

**BCN 3640 Economic Planning for Construction** (3)  
Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures. Prerequisites: Physics and BCN 3703, or equivalent.

**BCN 3703 Management of Construction Projects** (3)  
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. Prerequisites: BCN 3720 and BCN 3762, or equivalent.

**BCN 3720 Construction Costs and Scheduling** (3)  
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.

**BCN 3740 Legal Aspects of Construction and Labor Law** (3)  
Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements. Prerequisite: BCN 3762.

**BCN 3761 Specifications Writing** (4)  
Study of methodology for acquisition of information and transmission of technical and legal requirements for construction projects. Preparation of outline specifications, building description.

tion, and purchasing specifications. Problems of format, reviewing, and updating. Prerequisites: ARC 3466 or BCN 3210 and BCN 3740 or consent of instructor.

**BCN 3762 Codes and Specifications** (3)  
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** (3)  
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 3210.

**BCN 4254 Building Construction Drawing I** (3)  
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 4260 Quality Control in Construction** (3)  
Quality control as governed by the job inspector, contractor superintendent, architect-engineer, building official, and governmental agencies and requirements. Prerequisite: BCN 3762 or equivalent.

**BCN 4431 Steel Design** (3)  
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.

**BCN 4475 Structural Systems** (3)  
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 3402 or equivalent.

**BCN 4561 Environmental Control in Buildings** (4)  
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 4905 Directed Independent Studies** (VAR)  
Specialized intensive study in an area of special interest to the student. Prerequisite: Consent of instructor.

**BCN 4906 Special Topics** (3)  
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**

(3)  
Problems faced by developing countries in housing their population. Political, economic, social, and technical considerations in decision process. Prerequisite: ARC 3586 or BCN 5706.

**BCN 5706 Interdisciplinary Aspects of Housing**

(3)  
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.

**BCN 5707 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 5905 Directed Independent Studies**

(Master's Program) (VAR)  
Individual studies under supervision of faculty, tutor, or advisor. Consent of tutor and faculty chairperson required.

**BCN 5906 Special Topics**

(Master's Program) (VAR)  
Intensive study for small group of students in a particular topic, or a limited number of topics not otherwise offered in the curriculum. Consent of supervisor and department chairperson.

**BCN 6473 Systems Approach for Housing Planning**

(3)  
Discussions of basic concepts of systems analysis and systems approach to the field of housing planning. The advantage of systems approach. Case studies. Prerequisite: BCN 3706 or equivalent.

**IND 3020 Introduction to Architectural Interiors & Housing**

(3)  
Application of the elements, principles, and introduction to the basic facets of architectural interiors and its relationship to interior environment in general. Prerequisite: ARC 3466 or BCN 3210, and ARC 3786.

**IND 3210 Advanced Interior Design I**

(4)  
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. Prerequisites: Junior standing and to be taken in conjunction with IND 4311.

**IND 4220 Advanced Interior Design II**

(4)  
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 component, and merchandising procedures. Prerequisite: Junior level standing.

**IND 4221 Institutional and Industrial Interiors**

(4)  
Analysis and synthesis of institutional functions, administrative controls, resources, con-

straints 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**

(3)  
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. Prerequisites: Junior level standing, to be taken in conjunction with IND 3210.

**IND 4311 Media & Methods of Presentations**

(3)  
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 4905 Independent Study (Thesis)**

(VAR)  
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.

**LAA 3350 Landscape Design I**

(4)  
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 3127

**LAA 3712 History of Landscape**

(3)  
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.

## Home Economics Department

Betty Morrow, Associate Professor and Chairperson

Greta Howard, Lecturer

Wayne Kolbeck, Visiting Assistant Professor

Robert Merkel, Associate Professor

Adele Smith, Associate Professor

Penelope Storm, Associate Professor

The Department of Home Economics offers two undergraduate degrees as well as graduate courses to serve other programs in the University.

### Apparel Management Degree

The Department of Home Economics offers a baccalaureate degree in Apparel Management

with specializations in design, manufacturing, or merchandising management. All majors are required to obtain vocational experience through the completion of career traineeships.

LOCATION: Tamiami Campus.

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 fashion, accounting, marketing, economics, art, psychology, and management.

### Apparel Design Management

The 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.

Semester Hours

Core Courses:		10
CTE 3761	Fashion Production and Distribution	3
CTE 4442L	Textile and Apparel Testing	3
HME 3210	Personal and Career Management	3
HOE 3010	Orientation	1
Specialization:		45
	Math or Statistics Course	3
COA 3410	Consumer Resources	3
CTE 3602	Fashion and Culture	4
CTE 3715C	Fabrication of Designs	3
CTE 3723L	Menswear Design	2
CTE 3735	Advanced Fashion Illustration	3
CTE 3743L	Pattern Grading Analysis	2
CTE 3755L	Advanced Draping and Patternmaking	4
CTE 3762L	Cutting Analysis and Material Utilization	3
CTE 3763L	Machine Evaluation and Selection	3
CTE 3724L	Children's Wear Design	2
CTE 4726L	Active Sportswear Design	2
CTE 4764L	Industrial Apparel Assembly and Quality Control	3
CTE 4765L	Apparel Production Planning and Costing	4
CTE	Design Electives	4
Career Traineeship		6
CTE 4880	Apparel Field Experience	6

### Apparel Manufacturing Management

This specialty provides an overview of typical operations in apparel production, as well as supervisory and management skills necessary to oversee these operations. The program utilizes the resources available in the South Florida apparel industry.

		<i>Semester Hours</i>	
<i>Core Courses:</i>			<b>14</b>
CTE 3401L	Survey of Textiles	4	
CTE 3761	Fashion Production and Distribution	3	
CTE 4442L	Textile and Apparel Testing	3	
HME 3210	Personal and Career Management	3	
HOE 3010	Orientation	1	
<i>Specialization:</i>			<b>38</b>
COP 3172	Basic Programming for Business	3	
CTE 3742L	Commercial Pattern Analysis	2	
CTE 3743L	Pattern Grading Analysis	2	
CTE 3762L	Cutting Analysis and Material Utilization	3	
CTE 3763L	Machine Evaluation and Selection	3	
CTE 4764L	Industrial Apparel Assembly and Quality Control	3	
CTE 4765L	Apparel Production Planning and Costing	4	
CTE 4766L	Apparel Work Measurement	3	
ETI 3661	Plant Layout	3	
ETI 3670	Industrial Financial Decisions	3	
ETI 4671	Engineering Economy	3	
ETI 4681	Industrial Supervision	3	
STA 4664	Statistical Quality Control	3	
<i>Career Traineeship:</i>			<b>6</b>
CTE 4880	Apparel Field Experience	6	
<i>Advised Elective</i>			<b>3</b>

## Apparel Merchandising Management

The Apparel 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.

		<i>Semester Hours</i>	
<i>Core Courses:</i>			<b>14</b>
CTE 3401L	Survey of Textiles	4	
CTE 3761	Fashion Production and Distribution	3	
CTE 4442L	Textile and Apparel Testing	3	
HME 3210	Personal and Career Management	3	
HOE 3010	Orientation	1	
<i>Specialization:</i>			<b>42</b>
COA 3410	Consumer Resources	3	
COC 3300	Introduction to Computers and Computer Applications	3	
CTE 3303	Clothing and Consumer	2	
CTE 3303L	Clothing and Consumer Lab	2	
CTE 3602	Fashion and Culture	4	

CTE 3815	Apparel Retail Operations	3	
CTE 3852L	Visual Merchandising	3	
CTE 4821	Quantitative Decisions in Fashion Retailing	3	
CTE 4827	Fashion Buying and Merchandising Strategies	3	
CTE 4890	Fashion Merchandising Career Seminar	1	
FAD 3232	Relationships	3	
MAR 3023	Marketing Management	3	
MAR 4153	Retail Management	3	
MAR 4154	Cases in Retail Management	3	
MAR 4303	Advertising Management	3	
<i>Career Traineeship:</i>			<b>6</b>
CTE 4880	Apparel Field Experience	6	

## Home Economics Degree

The Department of Home Economics offers a baccalaureate degree in Home Economics. Those desiring management careers in business, industry, or government may specialize in Management and Consumer Affairs, Clothing and Textiles, Family and Child Development, or Food and Nutrition, or they may choose a General Home Economics program. All majors are required to obtain vocational experience through the completion of a career traineeship.

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required: General education requirements.

Recommended: Courses in home economics, fashion, chemistry, economics, art, communication, and business management.

## Clothing and Textiles

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.

		<i>Semester Hours</i>	
<i>Core Courses:</i>			<b>20</b>
CHD 3220	Child Development: Infancy and Early Childhood	3	
COA 3410	Consumer Resources	3	
FAD 4230	Family Life Cycle	3	
FOS 3004	Food and Consumer	3	
HHD 4420	Home Furnishings and Equipment	4	
HME 3210	Personal and Career Management	3	
HOE 3010	Orientation	1	
<i>Specialization:</i>			<b>31</b>
CHM 3030	Survey of General Chemistry and Lab	4	
CHM 3200	Survey of Organic Chemistry and Lab	4	
CTE 3310L	Principles of Clothing Construction	3	

CTE 3401L	Survey of Textiles	4	
CTE 3602	Fashion and Culture	4	
CTE 3761	Fashion Production and Distribution	3	
CTE 4340L	Advanced Clothing Construction	3	
CTE 4352L	Tailoring	3	
CTE 4741L	Pattern Alterations	3	
<i>Career Traineeship:</i>			<b>6</b>
CTE 4880	Apparel Field Experience	6	
<i>Advised Electives:</i>			<b>6</b>

## Management and Consumer Affairs

This specialization earns an Academic Certificate from the Institute of Consumer Affairs as well as a B.S. from the College 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.

		<i>Semester Hours</i>	
<i>Core Courses:</i>			<b>20</b>
CHD 3220	Child Development: Infancy and Early Childhood	3	
COA 3410	Consumer Resources	3	
FAD 4230	Family Life Cycle	3	
FOS 3004	Food and Consumer	3	
HHD 4420	Home Furnishings and Equipment	4	
HME 3210	Personal and Career Management	3	
HOE 3010	Orientation	1	
<i>Specialization:</i>			<b>39</b>
COA 3130	Personal and Family Economics	3	
COA 4440	Consumer Counseling	3	
COA 4460	Consumer and Technology	3	
COA 5450	Consumer Legislation	3	
CTE 3303	Clothing and the Consumer	2	
CTE 3303L	Clothing and the Consumer Lab	2	
CTE 3401L	Survey of Textiles	4	
FAD 4340	Family Development: Adulthood and Aging	3	
HHD 3151	Housing: Shelter and the Consumer	3	
MAN 3010	Organization and Management	3	
PAD 3034	Public Policy and Administration	3	
SOP 4645	Consumer Psychology	3	
SOP 4649	Experimental Consumer Psychology	4	
<i>Career Traineeship:</i>			<b>6</b>
COA 4942	Career Traineeship in Consumer Affairs	6	

## 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.

#### Semester Hours

<b>Core Courses:</b>		<b>14</b>
GOA 3410	Consumer Resources	3
CTE 3602	Fashion and Culture	4
HME 3210	Personal and Career Management	3
HOE 3010	Orientation	1
HUN 3122	Nutrition and Culture	3
	or HUN 3201 Principles of Nutrition	

<b>Specialization</b>		<b>39</b>
<b>Advised Requirements chosen from:</b>		<b>33</b>

CHD 3220	Child Development: Infancy and Early Childhood	3
CHD 4210	Middle Childhood and Adolescent Development	3
FAD 4340	Family Development: Adulthood and Aging	3
FAD 3232	Relationships	3
FAD 3253	Parenting	3
FAD 4230	Family Life Cycle	3
CHD 4830	Child Care Services	3
CHD 5264	Advanced Studies in Child Development	3
CHD 5930	Special Topics in Child Development	1-3
HUN 4410	Nutrition: Infancy through Adolescence	3
FAD 4930	Special Topics in Family Development	1-3
HME 5250	Independent Living for the Handicapped	3
DEP 3402	Psychology of Adulthood	3
DEP 4464	Psychology of Aging	3
FAD 5450	Human Sexuality	3
PHM 4050	Philosophy of Death	3

<b>Requirements for all:</b>		<b>6</b>
CHD 4930	Seminar in Child Development	3
FAD 4940	Human Development Practicum	3

<b>Career Traineeship:</b>		<b>6</b>
HOE 4940	Career Traineeship in Home Economics	6

<b>Advised Elective</b>		<b>3</b>
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FOS 3004	Food and Consumer	3
HHD 4420	Home Furnishings and Equipment	4
HME 3210	Personal and Career Management	3
HOE 3010	Orientation	1
<b>Specialization:</b>		<b>29</b>
CHM 3030	Survey of General Chemistry and Lab	4
CHM 3200	Survey of Organic Chemistry and Lab	4
HUN 3122	Nutrition and Culture	3
	Food and Nutrition Courses	15
MAN 3010	Organization and Management	3
<b>Career Traineeship</b>		<b>6</b>
HOE 4940	Career Traineeship in Home Economics	6
<b>Advised Elective</b>		<b>3</b>

## 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.

#### Semester Hours

<b>Specialization:</b>		<b>52</b>
Orientation		1
Clothing and Textiles courses		9
Family and Child Development courses		12
Food and Nutrition courses		9
Housing courses		9
Consumer Management courses		12
<b>Advised Electives</b>		<b>9</b>

## Course Descriptions

### Definition of Prefixes

CHD — Child Development; COA — Consumer Affairs; CTE — Clothing and Textiles; FAD — Family Development; HHD — Housing & Home Design; HME — Home Management & Equipment; HOE — Home Economics.

**CHD 3220 Child Development: Infancy and Early Childhood (3)**  
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 4210 Middle Childhood and Adolescent Development (3)**  
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 (3)**  
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 4905/5906 Independent Study (1-3)**

**CHD 4930 Seminar in Child Development (3)**  
Study of current issues and trends in child development and the professional role of the home economics developmental specialist. Seniors only. Corequisite: HOE 4940.

**CHD 5264 Advanced Studies in Child Development (3)**  
Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220, CHD 4320 or equivalent.

**CHD 5930 Special Topics in Child Development (1-3)**  
Special offerings of child development topics not covered in depth in the regular curriculum. Requires permission of instructor.

**COA 3130 Personal and Family Economics (3)**  
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 (3)**  
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 (3)**  
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 3210, and permission of instructor.

**COA 4460 Consumer and Technology (3)**  
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.

**COA 4942 Career Traineeship in Consumer Affairs (3-6)**  
Community based, supervised practical experience in consumer-related career to provide exploration and application opportunities. Permission of instructor required.

**COA 5450 Consumer Legislation (3)**  
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.

**CTE 3310L Principles of Clothing Construction (3)**  
Includes experience and understanding of basic principles of clothing construction and leads to more advanced techniques and learning. Course individualized according to student's needs and expertise.

## 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.

#### Semester Hours

<b>Core Courses:</b>		<b>24</b>
CHD 3220	Child Development: Infancy and Early Childhood	3
COA 3410	Consumer Resources	3
CTE 3303	Clothing & Consumer	2
CTE 3303L	Clothing & Consumer Lab	2
FAD 4230	Family Life Cycle	3

**CTE 3303 Clothing and Consumer** (2)  
Study of various topics pertaining to the consumer and clothing choices including wardrobe inventory, optical illusions, fashion terminology, and success dressing. Corequisite: CTE 3303L.

**CTE 3303L Clothing and Consumer Lab** (2)  
Evaluation of apparel construction methods. Includes construction of a simple garment. Corequisite: CTE 3303.

**CTE 3401L Survey of Textiles** (4)  
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** (4)  
Study of evolution of apparel and its relationship to psychological, sociological, technological, historic, and cultural factors.

**CTE 3715 Fabrication of Designs** (3)  
Selection and coordination of fabrics for apparel designs. Includes analysis of fabrication choices as they relate to production problems, design features, fashion trends, cost factors, and marketability.

**CTE 3723L Menswear Design** (2)  
Application of commercial techniques to the creative design of casual apparel for men. Prerequisite: CTE 3755L.

**CTE 3724L Childrenswear Design** (2)  
Application of commercial techniques to the creative designing of apparel for children. Prerequisite: CTE 3755L.

**CTE 3735L Advanced Fashion Illustration** (3)  
Advanced illustration work in rendering fabric drapery characteristics, construction details, color, and texture. Prerequisite: One fashion illustration course.

**CTE 3742L Commercial Pattern Analysis** (2)  
Overview of theory, geometric principles and methods of pattern making for apparel and allied products. Development of a set of patterns. Corequisite: CTE 3743L.

**CTE 3743L Pattern Grading Analysis** (2)  
Overview of theory, principles, and methods used in commercial pattern grading in accordance with accepted size ranges and specifications. Corequisite: CTE 3742L.

**CTE 3755L Advanced Draping and Pattermaking** (4)  
Development of additional skills in designing garment features using appropriate industrial draping and pattern techniques, including sloper manipulation. Analysis of fit emphasized.

**CTE 3761 Fashion Production and Distribution** (3)  
Study of apparel industries, with supervised observation of various aspects of production and distribution.

**CTE 3762L Cutting Analysis and Material Utilization** (3)  
Overview of cutting operations including fabric inspection, scaling, marking, spreading, cutting, and costing. Effective material utilization emphasized.

**CTE 3763L Machine Evaluation and Selection** (3)  
Study of thread, needles, stitch, and seam formation as it relates to apparel products. Survey of industrial sewing and pressing equipment and attachments. Cost considerations and payback periods examined.

**CTE 3815 Apparel Retail Operations** (3)  
Study of the non-merchandising functions of an apparel store such as advertising, control, personnel, customer services, distribution. Includes guest presentations on maintenance, warehousing, and security.

**CTE 3852L Visual Merchandising** (3)  
Study and application of the principles and techniques of creative "in store" and window displays. Field work included.

**CTE 4340L Advanced Clothing Construction** (3)  
Additional experience in handling special fabrics, pattern and garment fitting; and application of principles and techniques of clothing construction. Prerequisite: CTE 3310L or equivalent.

**CTE 4352L/4354L Tailoring** (3)  
Application of custom tailoring techniques to construction of suit or coat, with emphasis on fabric selection and pattern alteration. Graduate students will have additional requirements. Prerequisite: CTE 4340L or equivalent.

**CTE 4421L/5421L Creative Textiles** (3)  
Fundamental principles of designing and constructing textile fabrics. Includes macramé, batik, tie-dyeing, weaving, knitting, and crocheting. Graduate students have additional requirements.

**CTE 4442L Textile and Apparel Testing** (3)  
Fundamentals of the commercial testing methods used to evaluate fabric and garment performance. Includes statistical analysis of test results. Prerequisite: CTE 3401L or equivalent.

**CTE 4720L/4720L Swimwear Design** (2)  
Application of commercial design techniques to the special problems of creative swimwear design. Prerequisite: CTE 3755L.

**CTE 4726L Active Sportswear Designs** (2)  
Application of commercial techniques to the creative design of active sportswear for men and women. Prerequisite: CTE 3755L.

**CTE 4727L Womenswear Design** (2)  
Application of commercial techniques to the creative design of apparel for women, excluding sportswear. Prerequisite: CTE 3755L.

**CTE 4728L Sportswear Design** (2)  
Application of commercial techniques to the creative design of sportswear for misses and juniors. Prerequisite: CTE 3723L.

**CTE 4729L Swimwear Design** (2)  
Application of commercial design techniques to the special problems of creative swimwear design. Prerequisite: CTE 3755L.

**CTE 4741L/5741L Pattern Alterations** (3)  
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 3310L or equivalent.

**CTE 4764L Industrial Apparel Assembly and Quality Control** (3)  
Analysis of the theory and methods of 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 Costing** (4)  
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: CTE 3763L and CTE 4764L.

**CTE 4766L Apparel Work Measurement** (3)  
In-depth study of procedures used to establish piece work rates for sewing operations by using time study and M-T-M methods. Includes incentive systems, follow-up studies, and how to set an apparel plant on a piece work system.

**CTE 4821 Quantitative Decisions for Fashion Retailing** (3)  
Review of basic retailing math and application of financial management principles, with emphasis on relationships between sales volume, stock turnover, expenses, and profits.

**CTE 4822 Quantitative Decisions II** (3)  
Further exploration of financial management in apparel sales organizations based on dollar and unit figures. Emphasis on profit influences. Prerequisite: CTE 4821 or equivalent.

**CTE 4827 Fashion Buying and Merchandising Strategies** (3)  
Study of major considerations involved in buying and marketing of fashion merchandise. Includes development of merchandise assortment plans, with emphasis on effective store distribution. Prerequisite: CTE 4821.

**CTE 4831 Apparel Inventory Management** (3)  
Study of management of fashion merchandise to increase sales and profit. Includes use of computer hardware and software to aid inventory control and decision-making. Special factors of distribution and stock control for chain and branch stores, as well as warehouse operations will be studied. Prerequisite: CTE 4827 or equivalent.

**CTE 4831 Fashion Promotion** (3)  
Study of processes and actions that move fashion merchandise including evaluation of their effectiveness to the retailer. Includes guest presentations in advertising, display, public relations.

**CTE 4853 Advanced Visual Merchandising** (3)  
Seminar and field work in assisting with visual displays for product promotion. Prerequisite: CTE 3852L or equivalent.



**CTE 4880 Apparel Field Experience (3-6)**  
Supervised "on-the-job" training and periodic seminars. Consent of faculty instructor required.

**CTE 4890 Fashion Merchandising Career Seminar (1)**  
Exploration of local fashion-related career opportunities and proficiencies required for these positions. Guest speakers utilized.

**CTE 4905/5905 Independent Study (1-3)**  
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 (1-3)**  
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 (3)**  
Study of the latest techniques for sewing today's fabrics, including some factory methods. Prerequisite: CTE 4340L or equivalent.

**CTE 5355L Tailoring Menswear (3)**  
Application of tailoring techniques commercially used in the production of menswear, through the construction of a knit jacket and trousers. Prerequisite: CTE 4340L or equivalent.

**CTE 5422L Recent Developments in Textiles (3)**  
Exploration into recent developments in textile fibers and fabrics. Laboratory exercises in textile-testing procedures.

**CTE 5746L Pattern Design (3)**  
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 4741L or CTE 4340L.

**CTE 5880 Apparel Field Experience (3-6)**  
Supervised field placement in local apparel settings for professionals in apparel careers. Permission of chairperson required.

**CTE 5930 Textiles and Clothing Seminar (1-3)**  
By permission of instructor only.

**CTE 5990 Apparel Shop Entrepreneurship (3)**  
Planning and management of small apparel manufacturing or retail organizations. Includes development of a mock apparel shop.

**FAD 3232 Relationships (3)**  
Emphasizes attitudes, feelings, communication, life styles in varying interpersonal relationships. Includes human sexuality component.

**FAD 3253 Parenting (3)**  
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 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. Includes field component with community agencies serving families.

**FAD 4340/5341 Family Development: Adulthood and Aging (3)**  
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. Graduate students will have additional requirements.

**FAD 4800 Management of Human Care Programs (3)**  
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.

**FAD 4905/5905 Independent Study in Family Development (1-3)**  
Individually selected program of supervised study in a special area of Family Development.

**FAD 4930 Special Topics (1-3)**  
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 (2-3)**  
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, 4210, FAD 4230, or equivalent.

**FAD 5255 Parent-Child Interaction (3)**  
Effects of varying environments on members of households, interpersonal relationships, family values, life style, and interaction between members.

**FAD 5260 Family Development (3)**  
Dynamics of family interaction and structure, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit.

**FAD 5450 Human Sexuality (3)**  
Provides a cognitive overview of human sexuality. Main emphasis is on the affective dimension — an exploration of one's attitudes and values related to his or her sexuality and that of others.

**SHD 3151 Housing: Shelter and Consumer (3)**  
Held alternatives and their effect on family and community. Analysis of types of housing and financing plans currently available to consumers.

**SHD 4420 Home Furnishings and Equipment (4)**  
Principles involved in the construction, selection, operation, and care of furnishings and

equipment and their relationship to their environmental use.

**HME 3210 Personal and Career Management (3)**  
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 non-majors.

**HME 4230 Management of Personal and Family Resources (3)**  
Application of management principles to personal and family decisions including human and non-human resources. 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 (1-3)**  
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 (3-6)**  
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 (3)**  
Influence of diversified cultural impact on management life styles, with emphasis on problems of management of resources. Discussion of problems related to single-parent homes, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 3410, HME 4230, or instructor's approval.

**HME 5250/EEEX 5771 Independent Living for the Handicapped (3)**  
Explores the special home and personal living skills required in order for persons with mental and physical limitations to achieve their maximum independence. Suitable for students in psycho-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 5940 Workshop in Home Management and Family Economics (1-3)**  
Short term study of special facets, issues, and trends of home management and family economics.

**HOE 3010 Orientation (1)**  
Introduction to the specialties in the Home Economics Department and orientation to the University. Includes personal assessment of basic skills needed for academic and vocational success.

**HOE 3949 Cooperative Education in**

**Home Economics (3-6)**  
Supervised full time work 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 (1-3)**  
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 (3-6)**

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.

## Industrial Systems Department

Donald R. Herzog, *Professor and Chairperson*

Gabriel G. Aurioles, *Associate Professor*  
Andrew Banks, *Instructor and Assistant Director, CLR & S*

Sybil de Groot, *Professor*  
Lorenzo Elgarresta, *Lecturer*  
Charles Hall, *Instructor*  
Thomas Humphries, *Instructor and Assistant Director, CLR & S*

Neil Hout-Cooper, *Assistant Professor*  
Evodio Llevada, *Assistant Professor*

John Remington, *Associate Professor and Director, CLR&S*

Margaret G. Wilson, *Assistant Professor and Acting Associate Dean*

The Industrial Technology major serves students who wish to acquire a technical supervision and management background which emphasizes industrial operations.

The department offers a major in Industrial Technology with several identified areas of technical study designed for a career in business, labor, industry, or aviation. Technical course work may be in the areas of Air Traffic Control, Pilot/Aviation Administration, Industrial Safety, Industrial Technology, or Labor Studies.

The department also offers a bachelor's degree in Fire Science and Safety with three areas of specialization: Fire Administration; Fire Prevention Technology; and Safety.

Industrial Technology encompasses a technical management oriented curricula built upon a balanced program of studies drawn from a variety of disciplines related to industry. Included are a sound knowledge and understanding of materials and production processes; concepts of industrial management and human relations; and technical skills to permit the graduate to cope capably with technical, managerial, and production problems. Graduates usually per-

form technical liaison between management, engineer, scientist, technical, 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 in students 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, customers, and workers.

The department offers three areas of concentration in the Aviation Administration program, namely Air Traffic Controller, Pilot/Aviation Administration and Aviation Administration. FIU is a fully certified institutional member of the University Aviation Association.

Each Industrial Technology major must complete the required core courses (24 semester hours) and the coursework required by one area of technical study. Any general education deficiency will be in addition to the 60 semester hours required at the upper division level.

The following departmental core courses are required of all Industrial Technology majors:

Semester Hours			
COP 3112	Introduction to Computers	3	
<i>or</i>			
COP 3172	Basic Programming for Business	3	
ETD 4525	Engineering Design Graphics I or an Engineering Drawing course at the junior college level.	3	
ETI 3603	Industrial Operations	3	
ETI 3670	Industrial Financial Decisions	3	
ETI 4633	Introduction to Labor Studies	3	
ETI 4671	Engineering Economy	3	
ETI 4681	Industrial Supervision	3	
STA 3132	Business Statistics	3	

## Industrial Technology

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

(Industrial Technology)

Lower Division Preparation:

A.A. or A.S. degree.

Upper Division Program:

Semester Hours			
Core Courses		24	
Area of technical study		30	
MAC 3233	Calculus*	3	
PHY 3050	Physics w/o Calculus*	3	
ETI 3110	Quality Control	3	
ETI 3444	Automation	3	
ETI 3645	Production Planning and Control I	3	
ETI 4683	Human Factors Engineering	3	

ETI 3646	Production Planning and Control II	3
ETI 4613	Methods Analysis	3
ETI 4650	Industrial Information Systems	3
ETI 4660	Materials Handling	3

*Approved Electives*

Remarks: \*Completion at Lower Division level with a grade of "C" or better is accepted; to be substituted with ETE 3030 Survey of Electronics and/or ETM 4407L Mechanical Power Systems.

*or*

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science  
(Air Traffic Controller)

Lower Division Preparation:

To enter this technical area, the student must be selected by the Federal Aviation Administration. The Bachelor's degree is the result of a cooperative program between Miami-Dade Community College or Broward Community College and the University.

Upper Division Program

Core Courses:	24
Area of Technical study:	30

ETG 3949	Cooperative Education Technology	3
ETG 4949	Cooperative Education Technology	3
ETI 3700	Safety in Industry	3
ETI 4620	Value Analysis	3
ETI 4632	Personnel Relations	3
ETI 4660	Materials Handling	3
ETI 4683	Human Factors Engineering	3
TRA 4411	Airport Management	3
TRA 4412	Air Carrier Management	3

*Approved Electives*

6

*or*

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

(Pilot/Aviation Administration)

Lower Division Preparation:

The community college requirements for A.A. or A.S. for Pilots or Aviation Administration.

Upper Division Program:

Core Courses:		24
Area of technical study:		30
ENC 3210	Basic Technical Writing	3
ETE 3030	Survey of Electronic	3
ETI 3661	Plant Layout	3
ETI 3670	Industrial Research and Development	3
ETI 4620	Value Analysis	3
ETI 4660	Materials Handling	3
ETI 4683	Human Factors Engineering	3
ETI 4708	Health Hazards in Industry	3
TRA 4411	Airport Management	3



TRA 4412	Air Carrier Management	3
<i>Approved Electives</i>		
<i>or</i>		

LOCATION: Tamiami Campus.  
DEGREE: Bachelor of Science

(Labor Studies)

Lower Division Preparation:  
A.A. or A.S. degree.

Upper Division Program:

Core Courses:		24
Area of technical study:		21
BCN 4741	Industrial and Labor Relations Law	3
ETI 3695	Collective Bargaining in Industrial Systems	3
ETI 3700	Safety in Industry	3
ETI 4634	Labor and Industrial Dispute Resolution	3
ETI 4635	Administration of Labor Organizations	3
ETI 4907	Directed Individual Study in Labor Studies	3
ETI 4994	Contemporary Labor Issues	3

*Approved Electives:*

*or*

LOCATION: Tamiami Campus.  
DEGREE: Bachelor of Science  
(Industrial Safety)

Lower Division Preparation:  
A.A. or A.S. degree.

Upper Division Program:

Core Courses:		24
Area of technical study:		30
BCN 3730	Construction Safety	3
ETI 3700	Safety in Industry	3
ETI 4470L	Industrial Research and Development	3
ETI 4613	Methods Analysis	3
ETI 4620	Value Analysis	3
ETI 4632	Personnel Relations	3
ETI 4650	Industrial Information Systems	3
ETI 4683	Human Factors Engineering	3
ETI 4708	Health Hazards in Industry	3
HES 4432	Safety Management	3

*Approved Electives*

## Fire Science and Safety

This program has been designed to provide the student with the skill and proficiency in the recognition, evaluation, control, and reduction of safety, health, and fire hazards in the work place and in the community as a whole; and is intended to serve four different types of student populations, working or intending to work in:

- Large private industries,
- Federal, state and municipal governments,

- Insurance companies,
- Fire Departments.

### Admission Requirements

Students may have a non-degree seeking status or a degree seeking status. The non-degree seeking classification is designed for the person who is not interested in working toward a degree at the University. The non-degree seeking student is not required to meet the usual admission requirements. Credits earned will not be counted toward a degree at Florida International University unless the student subsequently applies for regular admission and is accepted. No more than 12 semester hours earned as a non-degree seeking student may be counted toward a degree.

### Admission Requirements for Degree-Seeking Students

A student who has completed an Associate of Science degree, or has earned 60 semester hours of credits at a public community college with a minimum of 15 semester hours of lower division coursework in the area of Fire Science, and who has completed at least 27 semester hours of the 36 semester 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 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).

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

Core Courses:

	Semester Hours
FFP 4225	Fire Prevention Organization and Management 3
FFP 4625	Analytic Approaches to Fire Protection 3
FFP 4324	Fire Protection Structure and Systems Design 3
FFP 4051	Legal Aspects of Fire Protection 3
FFP 3104	Advanced Fire Administration 3
FFP 4055	The Community and the Fire Threat 3
<b>Sub-Total 18</b>	

### Required Courses:

#### Fire Administration Specialization:

FFP 3114	Personnel Management for the Fire Services	3
FFP 4480	Fire Defense and Disaster Planning	3
FFP 4265	Fire Research Developments, Technology Transfer	3

**Sub-Total 9**

### Fire Prevention Technology Specialization:

FFP 3250	Fire Related Human Behavior	3
FFP 4245	Causitive Analysis and Investigation	3
FFP 4205	Fire Propagation Phenomenon	3
<b>Sub-Total 9</b>		

### Safety Specialization:

ETI 3700	Safety in Industry	3
ETI 4708	Health Hazards in Industry	3
HES 4432	Safety Management	3
<b>Sub-Total 9</b>		

### Recommended Electives:

Selected with an advisor to meet degree requirements and specialization objectives:

BCN 3730	Construction Safety	3
BCN 4741I	Industrial and Labor Relations Law	3
ETI 4613	Methods Analysis	3
ETI 4620	Value Analysis	3
ETI 4632	Personnel Relations	3
ETI 4650	Industrial Information Systems	3
ETI 4681	Industrial Supervision	3
ETI 4683	Human Factors Engineering	3
FFP 4905	Directed Study	1-6
RMI 4212	Property and Liability Insurance	3
RMI 4220	Casualty Insurance	3
RMI 4305	Risk Management or other advisor-approved courses	3
<b>Sub-Total 33</b>		

### Summary of Credits for Graduation:

Transfer Credits	60
Courses Required	27
Recommended Electives	33

**Semester Hours 120**

NOTE: These professional courses are open to degree-seeking major students or by permission of instructor.

## INDUSTRIAL SYSTEMS

### Definition of Prefixes

BCN — Building Construction; COP — Computer Programming; ETC — Engineering Tech.; Civil; ETD — Engineering Tech.; Drafting; ETE — Engineering Tech.; Electrical; ETG — Engineering Tech.; General; ETI — Engineering Tech.; Industrial; ETM — Engineering Tech.; Mechanical; FFP — Fire Fighting and Protection; HES — Health, Education & Safety; MAC — Mathematics; Calculus and Pre-Calculus; PHY — Physics; STA — Statistics; TRA — Transportation.

BCN 3730 Construction Safety (3)  
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 4741 Industrial and Labor Relations**

**Law** (3)  
Studies the history and current functioning of labor law with special emphasis upon the private sector.

**COP 3112 Introduction to Computers**

(3)  
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 FORTRAN IV.

**COP 3172 Basic Programming for**

**Business** (3)  
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.

**ETD 4525C Engineering Design Graphics I**

(3)  
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.

**ETD 4304 Computer Assisted Drawing and Design**

(3)  
Application of computer assisted design technology to product design, feasibility study and production drawing. Prerequisite: ETI 4525C.

**ETE 3030 Survey of Electronics**

(3)  
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 4562 Electrical/Electronic Power Systems**

(3)  
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**

(3)  
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 University students.

**ETG 3949 Cooperative Education Technology**

(3)  
Supervised full-time work semester for technology cooperative education students. Limited to students admitted to the Co-op program with consent of advisor. Evaluation and reports required.

**ETG 4811 Industrial Entrepreneurship**

(3)  
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** (3)  
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**

(3)  
Supervised full-time work semester 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**

(3)  
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 3411C Manufacturing Processes**

(3)  
An introduction into the processes used to convert raw materials into finished products. Covers castings, forging, machining, and forming.

**ETI 3417C Manufacturing Technology**

(3)  
Laboratory experiences of basic manufacturing, management, personnel, and production practices as they relate to products and processes. Safety procedures.

**ETI 3444 Automation**

(3)  
A study of the technology of automation including the economics of management policies for the major industrial changes influencing automation planning. Prerequisite: ETI 4650.

**ETI 3603 Industrial Operations**

(3)  
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. Prerequisite: Statistics or concurrent enrollment.

**ETI 3645 Introduction to Production Methods**

(3)  
Production methods and procedures. Topics include: organization, forecasting, estimating, engineering planning, manpower allocations, order control, scheduling, dispatching, line control and balancing. Prerequisite: STA 3132 or equivalent.

**ETI 3646 Production Planning and Control II**

(3)  
The functions of a production planning and control organization at work. Topics in the area of inventory control, scheduling, dispatching, and flow control. Prerequisite: ETI 3645.

**ETI 3661 Plant Layout**

(3)  
To effect the coordination of the physical plant facilities to combine the man, materials, and machines necessary for operation in the most economical arrangement. Prerequisite: ETD 4525L.

**ETI 3670 Industrial Financial Decisions** (3)  
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.

**ETI 3695 Collective Bargaining in Industrial Systems**

(3)  
A comprehensive study of collective bargaining with emphasis upon the private sector. Included will be negotiations and scope of contracts, day-to-day contract administration, and major bargaining issues.

**ETI 3700 Safety in Industry**

(3)  
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.

**ETI 4421C Materials Processing**

(3)  
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**

(3)  
A study of the maintenance function in the industrial setting, including the planning and implementation of preventative maintenance techniques.

**ETI 4470 Industrial Research and Development**

(3)  
Laboratory experiences in formulating, researching, designing, and developing prototypes of constructed and manufactured products and processes. Prerequisite: BCN 3702 or ETI 3417C.

**ETI 4604 Industrial Engineering Methods and Controls**

(3)  
A broad overview of the functional areas of industrial engineering with some problem solving techniques. Emphasis on methods and controls of industrial engineering functions. Prerequisite: ETI 3603 or MAN 4521, and STA 3132.

**ETI 4613C Methods Analysis**

(3)  
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. Prerequisite: STA 3132 or equivalent.

**ETI 4620 Value Analysis**

(3)  
How to increase the value of products or services by holding quality while reducing costs, holding costs while increasing quality, or both. Specific steps of value analysis used to improve industrial problem solving.

**ETI 4632 Personnel Relations**

(3)  
A study of the functions of personnel relations. Topics covered include determining job requirements, manpower requirements, selection, inter-



viewing and counseling, tests, training, morale and motivation, job evaluation, wage classification, merit rating, and union-management relations.

#### ETI 4633 Introduction to Labor Studies (3)

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 Dispute Resolution (3)**  
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.

**ETI 4635 Administration of Labor Organizations (3)**  
Administration of labor organizations; labor policies and practices; legal requirements and financial administration of unions. Prerequisite: ETI 4633.

**ETI 4646 Production Planning and Control (3)**  
Advanced topics in forecasting, inventory control, machine scheduling, line balancing, and flow control. Prerequisites: ETI 3645; COP 3112 or COP 3172.

**ETI 4650 Industrial Information Systems (3)**  
Introduction to systems concepts. Planning design and implementation of information systems, decision-making with systems, and system organization.

**ETI 4655 Industrial Microprocessor Systems (3)**  
Study of the applications of industrial microprocessors to designing, manufacturing, marketing, and research. Presents terminology, reliability, modularity and applications. Prerequisite: COP 3172.

**ETI 4660 Materials Handling (3)**  
A survey of materials handling elements, the unit load, packaging, bulk handling, and the economics of materials handling. Improvement of existing handling methods, justification for handling equipment, special handling techniques, and the management of the materials handling division in the industrial organization. Prerequisites: Statistics and Computer Programming.

**ETI 4671 Engineering Economy (3)**  
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 (3)**  
Overview of the supervisor's functions, responsibility, and over-all role in management in industry.

**ETI 4683C Human Factors Engineering (3)**  
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. Prerequisite or corequisite: ETI 4613.

**ETI 4690 Industrial Marketing (3)**  
The performance of business activity that directs the flow of goods and services from producer to industrial user. Covers new product development, marketing research, sales engineering, pricing, distribution, and promotion. Prerequisite: ETI 3603.

**ETI 4691 Women Management, Business, and Industry (3)**  
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 4692 Women in the Labor Movement (3)**  
The role of women in the work force and in unions with historical, social, and economic emphasis.

**ETI 4693 Theories of the Labor Movement (3)**  
This course will deal with theories which have attempted to explain the origins, developments, and functioning of labor movement.

**ETI 4694 Contemporary Labor Issues (3)**  
Studies of contemporary labor issues selected from such areas as collective bargaining, arbitration, mediation, legislation, regulative and administrative law, employment discrimination, and union grievance.

**ETI 4708 Health Hazards in Industry (3)**  
A continuation of Safety in Industry. An introduction to OSHA regulations on health hazards. Noise, radiation, and dust problems in industry. Special hazards with solvents, asbestos, lead, silica, and other chemicals. OSHA compliance procedures.

**ETI 4905 Independent Study (2-3)**  
Study in an area of industrial engineering or industrial technology dependent upon the needs of individual student. Prerequisite: Senior standing, consent of faculty advisor, approval of department chairman, and GPA 3.0.

**ETI 4907 Directed Individual Study in Labor Studies (3)**  
Supervised reading and/or field research and training.

**ETI 4930 Special Topics (2-3)**  
Permits in-depth study in areas relating to specific student interests, recent advances, and problems in industrial technology or systems. Prerequisite: Senior standing, consent of faculty advisor and approval of department chairman.

**ETM 4407L Mechanical Power Systems I (3)**  
Laboratory experiences in the theory of operation and related maintenance of single and multiple cylinder reciprocating engines. In-

cludes introductory experience with mechanical, fluid, and pneumatic power systems.

**ETM 4408 Mechanical Power Systems II (3)**  
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.

**ETM 4823C Materials of Industry (3)**  
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. Prerequisites: College Algebra and Physics.

**FFP 3104 Advanced Fire Administration (3)**  
Utilization of modern management and planning techniques for the fire department organization. Evaluation and control procedures related to budgeting, personnel, and communication procedures. Planning techniques. The examination of fire department traditional and evolving roles in protection, prevention, and community service. Prerequisite: Lower Division Fire Administration or consent of instructor.

**FFP 3114 Fire Personnel Management (3)**  
Examination of personnel practices and management procedures. Collective bargaining, binding arbitration, applicable legislative and administrative procedures. Promotion, personnel development, career, and incentive systems. Validation of physical and mental requirements. Management and supervisory procedures.

**FFP 3250 Fire Related Human Behavior (3)**  
Design of education, awareness, and community relations programs. Understanding of concepts of personal invulnerability and risk evaluation. Dynamics of human behavior in fire incidents related to fire prevention codes and ordinances. Relationship of role, group dynamics, and the environment of the structure. The perception of fire as a threat.

**FFP 4051 Legal Aspects of Fire Protection (3)**  
The legal basis for the police power of government related to public safety. Legal limitations and responsibility. Liability of fire prevention organizations and personnel. Review of judicial decisions. Implications of product liability cases in fire prevention. Prerequisite: Fire Prevention Organization and Management.

**FFP 4055 The Community and the Fire Threat (3)**  
The sociological, economic, and political characteristics of communities and their influence on the fire problem. Review of the urban studies related to housing, structure abandonment, rent control, crime, false alarm and incendiary fire rates, and the fire problem. The role of the fire department and fire prevention programs. Community and fire service role conflicts.

**FFP 4205 Fire Propagation Phenomenon (3)**  
Study of phenomenon of fire propagation in both fuel and air regulated phases. Variables in pre- and post-flashover fire development. Study of geometric, material, gaseous, fluid flow, and

thermodynamic parameters. Compartment and building fire models. Prerequisites: College Algebra and Physics. (General Ed. level).

#### FFP 4225 Fire Prevention Organization and Management (3)

Examination and evaluation of the techniques, procedures, programs, and agencies involved with fire prevention. Consideration of related governmental inspection-education procedures. Interaction within the fire department between protection, inspection, education, and prevention procedures. Licenses and permits, zoning, legal aspects, inspections, and investigations. Planning. Arson and incendiary fire analysis.

#### FFP 4245 Causative Analysis and Investigation (3)

Examination of the procedures and techniques for collection, comparison, and analysis of the physical evidence relative to the area of fire origin. Principles of evidence of ignition phenomenon and propagation variables. Legislative, economic, psychological, and sociological variables of the incendiary fire. The role of insurance and government programs. Data analysis and prediction techniques, including pattern analysis.

#### FFP 4265 Fire Research Developments, Technology Transfer (3)

Understanding of fire research programs and areas of study application. The transfer and implications of research results for fire prevention and protection programs. Foreign studies and international programs. The research matrix of problem areas and results. Technology transfer.

#### FFP 4324 Fire Protection Structure and Systems Design (3)

The design principles involved in the protection of the structure from the fire involvement. The empirical tests and prediction procedures. Control, detection, and suppression system design practices. Fundamentals of the hydraulic design of sprinkler and water spray systems with recent innovations.

#### FFP 4480 Fire Defense and Disaster Planning (3)

Concept and principles of community risk assessment. Regional and cooperative response procedures and plans. Relationship of structural, climatic, and topological variables to group fires, conflagrations, and natural disasters. Pre and post occurrence factors: coordination, command, logistics.

#### FFP 4625 Analytic Approaches to Public Fire Protection (3)

The application of operations research and systems analysis techniques to fire protection problem areas. The examination of established techniques in the decision tree for building fire protection design, fire station location models, and resource allocation procedures. Understanding of fire data collection and information management techniques.

FFP 4905 Directed Study in Fire Science (1-6)  
The course is designed to permit the qualified student an opportunity to conduct a specific research project for the employing agency in

his/her area of specialization in order to measure and improve the productivity and effectiveness of the fire department.

#### HES 4432 Safety Management (3)

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.

#### MAC 3233 Calculus For Business (3)

A one semester 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. Prerequisite: MAC 3132 or working knowledge of algebra.

#### PHY 3050-PHY 3051 Physics without Calculus (4,4)

A general introductory course using a non-calculus approach. PHY 3050 will cover kinematics. Newtonian mechanics, properties of fluids, thermodynamics, and wave motion. PHY 3051 will cover electricity and magnetism, geometrical and wave optics, and the structure of matter. Prerequisites: Students must have college algebra, trigonometry, and analytic geometry.

#### TRA 4411 Airport Management (3)

Application of management principles to airport operation, with emphasis on unique characteristic of airport finance; government relations and regulations; airline relations and interdependence.

#### TRA 4412 Aircarrier Management (3)

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.

#### STA 3132 Business Statistics (3)

Starting with an introduction to probability, the course provides an introduction to statistical techniques used in management science. It includes descriptive statistics, probability distribution, estimation, and testing of hypothesis.

## School of Engineering

Associate Dean

LeRoy E. Thompson

### Curricula

The School offers baccalaureate degree programs in Electrical Engineering and Civil Engineering. Additional fields of Engineering are planned for future implementation in the areas of Mechanical, Industrial, and Chemical. The various curricula for the School are designed to give the student an education for entry into the profession of engineering.

These curricula are designed to meet the educational requirements of the engineering profes-

sions. The initial professional program accreditations are expected for review and evaluation when the minimum time limit eligibility requirements are fulfilled. The State of Florida Board of Professional Engineers has evaluated and approved the baccalaureate degree programs in Electrical Engineering and Civil Engineering; the students from those programs are accepted for the Engineer Intern examination.

The subjects basic to all fields of engineering are generally studied while the student is in the first two years of undergraduate study, or in a community college pre-engineering curriculum. Specialized or departmental courses are taken in the third and fourth years with additional interspersed mathematics and humanistic-social studies. To earn a bachelor's degree in engineering, a student must complete the approved curriculum requirements, and must have a cumulative grade point average of at least 2.00 on all work attempted at the University.

### Plan of Study

The engineering programs include a strong engineering core foundation designed to prepare the prospective engineer not only with a broad base of fundamental courses in mathematics, sciences and technical knowledge, but also with a solid cultural background in Humanities, Social Sciences, and English. In addition to the core subjects, one must complete an engineering discipline specialization under the direction of the respective administrative department.

### Admission Preparation

Prospective students who are considering engineering should follow an academic program to meet engineering prerequisites. The community college student planning to transfer to the engineering program as a junior should follow a pre-engineering program leading to an Associate of Arts (A.A.) degree. Many courses required by the engineering curriculum are specialized in their content and potential transfer students need to select lower division courses with care. The normal maximum number of credits transferred from a community college is sixty semester credits.

Freshmen admission to the University is determined by the admission standards of the lower division. Students accepted to lower division may declare their engineering major after sixty semester credits. The admitted freshmen should discuss their future program intentions with their lower division academic advisor and plan their lower level course selections toward their engineering program goals. The freshmen should have had high school preparatory work of high intellectual quality and of considerable breadth. Specifically, students admitted to lower division with a goal toward engineering should have the minimum preparatory studies in mathematics (algebra, geometry, trigonometry, analytical geometry or pre-calculus) and chemistry. Physics and introduction to computers are recommended, but not required.



**DEGREE REQUIREMENTS****CORE ENGINEERING CURRICULUM****MATHEMATICS**

Calculus I  
Calculus II  
Multivariable Calculus  
Differential Equations  
Probability and Statistics  
or  
Linear Algebra  
or  
Complex Variables

**PHYSICAL SCIENCES**

General Chemistry I  
General Chemistry Lab I  
General Chemistry II  
General Chemistry Lab II  
Physics w/Calculus I  
Physics w/Calculus I Lab  
Physics w/Calculus II  
Physics w/Calculus II Lab

**HUMANITIES-SOCIAL SCIENCES**

Humanities Elective (6 credits)  
Social Science Electives (6 credits)  
Humanities or Social Science Elective (3 credits)

Professional Ethics

**ENGLISH**

Technical Writing  
Composition/Writing (6 credits)

**COMPUTER SCIENCE**

Introduction to Computers

**ENGINEERING SCIENCES**

Statics  
Engineering Mechanics of Materials

**\*\*Materials in Engineering**

Dynamics  
Thermodynamics I  
Circuits I  
Fluid Mechanics

**OTHER TECHNICAL COURSES**

\*\*Engineering Cost Analysis  
Engineering Drawing/Graphics I

\*\*Not required in Electrical Engineering

engineers play an essential role in serving the people and the living environmental needs of society. These needs relate to shelter, mobility, water, air, and development of land and physical facilities.

LOCATION: Tamiami Campus

DEGREE: Bachelor of Science

**CIVIL ENGINEERING CURRICULUM**

SUR 3001	Elementary Surveying
SUR 4201	Route Surveying and Design
ECI 3403	Civil Engineering Materials
ECI 4305	Geotechnical Engineering I
ECI 4305L	Soil Testing Laboratory
ENV 3621	Water Resources Engineering
ENV 4404	Water Supply Engineering
ENV 4514	Sewerage and Wastewater Treatment
CES 3151	Determinate Structural Analysis
CES 4152	Indeterminate Structural Analysis
CES 4605	Steel Design
CES 4704	Reinforced Concrete Design
TTE 3004	Introduction to Transportation Engineering
TTE 4201	Traffic Engineering (*)
BCN 3720	Construction Cost and Scheduling (*)
	Technical Elective (3 credits) (*)

An environmental option is available to Civil Engineering students who wish to concentrate on solving environmental problems. Students in this option will replace those courses marked by an asterisk (\*) with the following:

**ENVIRONMENTAL OPTION COURSES**

ENV 4061	Public Health Engineering
ENV 4104	Elements of Atmospheric Pollution
ENV 4351	Solid Waste Management

the co-op program with consent of advisor. Evaluation and reports required.

**CES 4152 Indeterminate Structural Analysis (3)**

To introduce the student to the basic concepts and principles of structural theory relating to statically indeterminate beams, trusses and rigid frames; including Slope Deflection, Moment Distribution, and Matrix Methods. Prerequisite: CES 3151.

**CES 4605 Steel Design (3)**

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: CES 3151.

**CES 4704 Reinforced Concrete Design (3)**

The analysis and design of reinforced concrete beams, columns, slabs, retaining walls and footings; with emphasis corresponding to present ACI Building Code. Introduction to prestressed concrete is given. Prerequisite or Corequisite: CES 4152.

**CES 4949 Co-Op Work Experience (3)**

Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and report required. Prerequisite: Senior standing.

**CES 5005 Computer Applications in Structures (3)**

Discussion and application of available computer programs, techniques and equipment for the analysis, design and drafting of structures. Prerequisites: CES 4605 and CES 4704.

**CES 5106 Advanced Structural Analysis (3)**

Extension of the fundamental topics of structural analysis with emphasis on energy methods and methods best suited for non prismatic members. Prerequisite: CES 4152.

**CES 5905 Directed Independent Study (1-3)**

Individual conferences, assigned readings, and reports independent investigations selected by the student and professor with approval of advisor.

**ECI 3403 Civil Engineering Materials (3)**

A study of the principal materials used for engineering purposes with special attention to their mechanical properties, the importance of these properties, and the appropriate tests to assure the quality of these materials. Prerequisite: EGM 3520.

**ECI 4305 Geotechnical Engineering I (3)**

Soil properties; stresses in soils and failures; consolidation and settlement; subsoil exploration; foundation types and design. Prerequisite: EGM 3520.

**ECI 4305L Soil Testing Laboratory (1)**

Laboratory experiments to identify and test behavior of soils. Prerequisite: EGM 3520. Corequisite ECI 4640.

**ECI 4930 Special Topics in Civil Engineering (1-4)**

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

# CIVIL AND ENVIRONMENTAL ENGINEERING

LeRoy E. Thompson, *Professor and Acting Chairperson*

Jimmy D. Hahs, *Associate Professor*

Rong-Heng Kuo, *Assistant Professor*

Luis A. Prieto-Portar, *Associate Professor*

Vasant H. Surti, *Professor*

Jose T. Villate, *Professor*

The Civil Engineering curriculum provides a background of interrelated subdisciplines of Civil Engineering with the fundamental core subjects of the engineering program. The technical interdisciplinary courses are in the areas of surveying, construction, geotechnical engineering, environmental engineering, transportation, structures, and water resources. The Civil En-

## Course Descriptions

**CIVIL ENGINEERING:**

Definition of Prefixes:

CES — Civil Engineering Structures; ECI — Engineering, Civil; EGM — Engineering, Mechanics; EGN — Engineering, General; ENV — Engineering, Environmental; SUR — Surveying & Related Areas; TTE — Transportation & Traffic Engineering

**CES 3151 Determinate Structural Analysis (3)**

To introduce the student to the basic concepts and principles of structural theory relating to statically determinate beams, arches, trusses and rigid frames, including deflection techniques. Prerequisite: EGM 3520

**CES 3949 Co-op Work Experience (3)**

Supervised full-time work experience in engineering field. Limited to students admitted to

# EGM 3520 Engineering Mechanics of Materials (4)

Analysis of axial, torsional, bending, combined stresses and strains. Plotting of shear, moment and deflection diagram with calculus applications and interpretations. Prerequisites: MAC 3412 and EGN 3311.

# EGM 5421 Structural Dynamics (3)

Study and design of materials and structures subjected to dynamic loads. Prerequisites: EGN 3321, MAP 3302. Corequisite: EGM 5533.

# EGM 5533 Advanced Mechanics of Materials (3)

Extension of the fundamental principles of engineering mechanics to include curved beams, warping, stability, etc. Prerequisites: CES 4152, MAP 3302.

# EGN 3311 Statics (3)

Forces on particles, equilibrium of forces, moments, couples, centroids, section properties and load analysis of structures. Prerequisites: PHY 3048, MAC 3412.

# EGN 4611 Engineering Cost Analysis (3)

Essential methods required for sound engineering decision making based on cost analysis. Practical applications for engineers working in research, development, design, operations, and management. Prerequisite: Junior Standing.

# EGN 5455 Numerical Methods in Engineering (3)

Study of procedures that permit rapid approximate solutions, within limits of desired accuracy, to complex structural analysis. Prerequisite: CES 4152.

# ENV 3353 Fluid Mechanics (4)

A study of the properties of liquids and their behavior at rest and in motion. Buoyancy and stability. Momentum and energy considerations in fluid flow. Prerequisite: EGN 3311.

# ENV 3621 Water Resources Engineering (3)

Hydrologic cycle, rainfall, runoff, groundwater, wells and surface water studies. Water quality management and water laws. Estimate of water needs and quantity of wastewaters. Prerequisites: ENV 3353, EGN 3311 and STA 3033.

# ENV 3949 Co-Op Work Experience (3)

Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor.

# ENV 4061 Public Health Engineering (3)

Study of the physical, chemical, and biological changes in the environment; and the application of science and engineering to improve environmental quality. Prerequisites: PHY 3049, CHM 3046

# ENV 4104 Elements of Atmospheric Pollution (3)

The air pollution problem, causes, sources, and effects. Historical development. Physical, political, and economic factors in its control. Prerequisites: PHY 3049, CHM 3046.

# ENV 4351 Solid Waste Management (3)

Sources, amounts and characteristics of solid wastes; municipal collection systems; methods of disposal; energetic consideration in the recovery and recycle of wastes. Prerequisites: PHY 3049, CHM 3046, ENV 4514.

**ENV 4404 Water Supply Engineering (4)**  
Quantity, quality, treatment, and distribution of drinking water. Field trip. Prerequisite: ENV 3621.

# ENV 4514 Sewerage and Wastewater Treatment (4)

Collection and transportation of wastewater, design of sanitary and storm sewers. Physical, chemical, and biological principles of wastewater treatment. Field trip experience. Prerequisite: ENV 4404.

# ENV 4930 Special Topics in Environmental Engineering (1-4)

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

# ENV 4949 Co-Op Work Experience (3)

Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

# ENV 5905 Directed Independent Study (1-3)

Individual conferences, assigned readings, and reports on independent investigations selected by the student and professor with approval of advisor.

# SUR 4201 Route Surveying and Design (3)

To introduce the student to the current design concepts criteria and techniques in geometric design of highways. The theory, field collection of data, office calculations, the design and drawings required for the geometric design of a highway. Prerequisites: SUR 3001, COP 3112.

# TTE 3004 Introduction to Transportation Engineering (3)

Transportation characteristics; parking and terminal design; mass transit systems; air and rail transportation; urban transportation planning. Prerequisites: PHY 3048, MAC 3411.

# TTE 4201 Traffic Engineering (3)

Traffic control devices, traffic actuated and fixed time controllers; intersection design; signal coordination; traffic flow theory and research. Prerequisites: TTE 3004, STA 3033.

# TTE 5105 Pavement Design (3)

Analysis and design of the sub-base, base, and pavement. Study of flexible and rigid pavements as structural units. Prerequisites: ECI 4640, ECI 4640L, CES 4704.

## Civil Engineering Technology

LeRoy E. Thompson, *Professor and Chairperson*

Jimmy D. Hahs, *Associate Professor*

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Vasant Surti, *Professor*

Jose T. Villate, *Professor*

The Civil Engineering Technology undergraduate program has been discontinued as of Spring Term 1983.

## 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.
  3. Complete a minimum of 36 semester hours of graduate level courses. (Not more than 6 graduate credit semester 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 36 semester hours of graduate credit.

Four options are offered: Environmental Quality, Urban Planning Systems, Aquatic Resources, and Air Resources. A transportation track is available within Urban Planning Systems.

### Course Descriptions

#### CIVIL ENGINEERING TECHNOLOGY

##### Definition of Prefixes

ETC — Engineering Technology: Civil; ETG — Engineering Technology: General.

#### BCN 3210C Construction Materials (3)

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 construction materials. Prerequisite: Physics.

#### ETC 3210L Soil Mechanics Laboratory (1)

Laboratory experiments in identification, properties and behavior of soils. Prerequisite or corequisite: ETC 3220.

#### ETC 3220 Soil Mechanics and Foundations (3)

Identification and properties of soils. Behavior of soils relating to design and construction of foundations for structures and pavements. Prerequisite: ETG 3530 or equivalent.



**SUR 3001C Surveying** (3)  
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.

**SUR 3140C Advanced Surveying** (3)  
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: SUR 3001C or equivalent.

**SUR 3400C Land Surveying** (3)  
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: SUR 3001C.

**ETC 3410 Determinate Structural Analysis** (3)  
Analysis of statically determinate structural systems by analytical methods. Reactions: shear, axial and moment diagrams, truss analysis, influence lines: moving loads. Distortion methods of moment area, conjugate beam, elastic weights, and virtual work. Prerequisite: ETG 3530 or equivalent.

**ETC 3420 Indeterminate Structural Analysis** (3)  
Analysis of indeterminate structural systems. Development and use of theorems of moment area, conjugate beam, elastic weights, virtual work. Slope deflection and moment distribution methods. Moving loads and influence lines. Introduction to stiffness method and flexibility methods. Application of matrix methods. Prerequisite: ETC 3410.

**ETC 4222 Foundations Design and Construction** (3)  
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 3220.

**ETC 4429 Computer Applications in Structural Analysis and Design** (3)  
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: ETC 3420, ETC 4450, ETC 4440, and Introduction to Computers.

**ETC 4440 Steel Design** (3)  
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 3410.

**ETC 4450 Reinforced Concrete Design** (3)  
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: ETC 3410.

**ETC 4460 Timber Design** (3)  
The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; fasteners and their significance in design. Prerequisite: BCN 3402C or ETG 3530 or equivalent.

**ETC 4502 Geometric Design of Highways** (3)  
Route surveys by ground and aerial method: reconnaissance, preliminary and location 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. SUR 3140C and Computer Programming or equivalent.

**ETC 4541 Traffic and Transportation Engineering Technology** (3)  
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. Prerequisites: Computer Programming and Calculus.

**ETC 5422C Advanced Structural Design** (3)  
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 4450.

**ETC 5470 Prestressed Concrete Design** (3)  
The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete members, and designing these members into the integral structure. Prerequisite: ETC 4450.

**ETC 5507C Advanced Geometric Design of Highways** (3)  
Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHTO design guidelines. Design project required. Prerequisite: ETC 4502.

**ETC 5514 Pavement Design** (3)  
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 3220 and ETC 4450.

**ETC 3502 Statics** (3)  
Study of forces acting on bodies, including coplanar and non-coplanar forces, concurrent and non-concurrent forces, friction forces and

hydrostatic forces and properties of cross-sections and bodies. Prerequisites: Physics and Calculus.

**ETC 3520L Materials Testing Lab** (1)  
A laboratory study of principle materials with particular attention to their mechanical properties and significance for engineering uses. Prerequisite or corequisite: BCN 3402C or ETG 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** (3)  
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** (3)  
Principles of transportation planning; origin-destination studies; methodology used in generating transportation plans; techniques for predicting and evaluating the consequences of various alternatives; transportation planning for Dade County. Prerequisite: ETC 3570.

**ETC 5572 Transportation Systems Modeling & Analysis** (3)  
Modeling and analysis techniques in transportation. Linear Programming, queueing theory, decision making techniques. Prerequisite: Computer programming or consent of Instructor.

**ETC 5573 Urban Mass Transit and Transportation Planning** (3)  
Models of urban growth, population forecasts, trip generation, trip distribution and trip assignment models, model split, system evaluation, transit marketing. Prerequisite: ETC 4541.

**ETC 5925C Urban Traffic Workshop** (3)  
Selected laboratory problems related to urban traffic. Prerequisite: ETC 4541 or consent of Instructor.

**ETC 5926 Applied Statistics in Traffic and Transportation** (3)  
Civil and Environmental Engineering statistical methods as applied to traffic and transportation are covered. Topics include: significance tests, standard distributions, analysis of variance, and regression analysis. Prerequisite: Graduate standing.

**ETC 6571 Urban Traffic Characteristics** (3)  
Speed and Volume studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: ETC 4560 or consent of instructor.

**EVS 3100 Introduction to Environmental and Urban Systems (3)**

This course is designed for non-majors as an integrated approach to the role of technological man in the biosphere. Emphasis is on methods for the environmental quality improvement of land, air, water, transportation, and planning systems.

**EVS 3215C Applied Hydraulics (3)**

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 3315L Fluids Laboratory (1)**

Demonstrations, experiments, and analyses of basic fluid phenomena and principles. Prerequisite: Admission requirements to programs.

**EVS 3219C Limnology (3)**

Biological, chemical and physical aspects of freshwater lentic and lotic ecosystems. Emphasis is on the freshwater systems of South Florida.

**EVS 3264C Water Resources (3)**

Study of the hydrologic cycle; ground and surface water occurrence and quality; sanitary protection of surface and groundwater; sources of pollution; water quality management; multi-purpose uses of water and reuse; determination of municipal, industrial, and agricultural water requirements.

**EVS 3268C Marine Technology (3)**

Technological aspects of ocean systems. Prerequisite: EVS 3219 or consent of instructor.

**EVS 3360 Air Resources (3)**

An introductory course on characteristics of the earth's atmosphere and aspects of air pollution. Classification and sources of air pollutants. Effects of air pollutants on health, vegetation and property. Control measures, legislation and projections.

**EVS 3420C Environmental Instrumentation (3)**

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 (3)**

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 (3)**

The effects of environmental pollutants on man's health and the quality of life.

**EVS 4204C Water and Wastewater Treatment (3)**

Quantity, quality, treatment and distribution of drinking water, physical, chemical, and biological principles of wastewater treatment. Laboratory and Field Trips. Prerequisite: Senior standing.

**EVS 4233C Unit Operations I (3)**

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 (3)**

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 (3)**

Development of water supplies. Treatment of water including disinfection techniques. Distribution systems. Laboratory work. Prerequisites: EVS 3264C and EVS 4233C, or consent of instructor.

**EVS 4905 Independent Study (1-3)**

Individual research studies available to academically qualified students. Consent of instructor required.

**EVS 4930 Special Topics (1-3)**

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 Hydraulics (3)**

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 (3)**

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 (3)**

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 (3)**

The use of aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ecological aspects of aquatic insects in relation to pollution stress are assessed. Prerequisite: EVS 3219 or consent of instructor.

**EVS 5267 Water Quality Indicators (3)**

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 (3)**

Practical laboratory work and theoretical aspects involved in a wide range of air sampling and analysis systems. Critical comparison and examination of methods and instrumentation.

Source testing, instrumental sensitivity, applicability and remote sensing systems. Prerequisite: EVS 3360 or EVR 4231.

**EVS 5362 Air Pollution Control (3)**

Air pollution control — devices, principles, efficiencies, costs. Gas scrubbers, electrostatic precipitators, thermal deposition, filters, condensers, 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 (3)**

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 (3)**

Introduction to toxicological studies in the urban environment. Prerequisite: EVS 3601C or consent of instructor.

**EVS 5425C Vector and Pest Control (3)**

Effects and management of public health vectors and communicable diseases. Prerequisite: EVS 3601C or consent of instructor.

**EVS 5426C Advanced Environmental Instrumentation (3)**

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 (3)**

In-depth study of the solid waste problem. Topics include municipal, industrial, and agricultural generation of wastes; municipal collection systems; methods of disposal, hazardous wastes, and energetic considerations in the recovery and recycle of wastes.

**EVS 5741 Noise (3)**

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 (1-3)**

Individual research studies available to academically qualified students on graduate status.

**EVS 5930 Special Topics (1-3)**

Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

**EVS 6050 Environmental and Human Factors (3)**

Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electro magnetic radiation, air and water pollution, public and occupational health, vector control, commu-



nicable diseases. Prerequisite: Program admission requirements.

**EVS 6051C Advanced Unit Operations I (3)**  
Theory and design of physical, chemical, and biological unit operations as applied to the advanced treatment of water and wastewater. Prerequisite: EVS 5242.

**EVS 6052C Advanced Unit Operations II (3)**  
A continuation of EVS 6051C including the reuse of treated wastewaters and of sludges. Prerequisite: EVS 6051C.

**EVS 6053C Advanced Treatment Systems (3)**  
Integration of unit operations into advanced treatment systems for waters and wastewaters. Prerequisite: EVS 6052C.

**EVS 6054 Aquatic Reclamation (3)**  
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 (3)**  
Characteristics and composition of industrial wastewaters. Sampling techniques and analyses. Water conservation and reuse. Joint industrial-municipal collection and treatment of wastewaters. Prerequisite: EVS 6053C.

**EVS 6422 Environmental Assessment (3)**  
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 (3)**  
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 (3)**  
A continuation of EVS 5421. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EVS 5421 or consent of instructor.

**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 (6)**

**OCB 4702 Aquatic Products (3)**  
Commercial products, already developed, which may be obtained from aquatic systems. Prerequisite: EVS 3268 or consent of instructor.

**OCB 6631 Air-Water Interface Studies (3)**  
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 (3)**  
Planning fundamentals; objectives and scope of urban planning; theories of land use patterns; population studies; cohort survival technique; employment studies; economic studies; es-

timating 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 (3)**  
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 (3)**  
Elements of the general land use plan, location and space requirements; the use of models in planning; development of the land use plan; policy plan, implementation. Prerequisite: URP 3000.

**URP 4030 Analysis of Technological Systems (3)**  
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.

**URP 5400 Urban and Regional Analysis (3)**  
Theories of urban and regional growth; collective utility analysis; input-output models in planning; application of linear programming to regional social accounting; economic base analysis. Prerequisite: Computer Programming or consent of instructor.

**URP 5425 Environmental Planning (3)**  
Ecological principles necessary to preserve a quality environment are presented by means of planning policies, processes and environmental indicators. Emphasis will be placed on the impact of growth on environmental quality. Prerequisites: EVS 3360, URP 3000, and EVS 3264.

**URP 6423 Environmental Modeling (3)**  
Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in environmental management and its relation to decision making; modeling of air and water systems. Prerequisite: Computer Programming or consent of instructor.

**URP 6821 Urban Systems Analysis (3)**  
The urban areas as a complex system; modeling the urban growth processes; statistical decision making games; modeling and simulation; cost effectiveness; application of the theory; a system-wide view of the Miami area. Prerequisite: Computer Programming or consent of the instructor.

## Electrical Engineering

James Story, *Associate Professor and Chairperson*  
Manuel Cerejo, *Associate Professor*

Alvin Glenn, *Professor*  
Wunnava Subbarao, *Associate Professor*

The Electrical Engineering curriculum provides an emphasis toward engineering concepts and design in the varied and rapidly expanding fields of electrical engineering with the fundamental core subjects of the engineering program. The Department of Electrical Engineering seeks to attract students who possess a verbal and written command of the English language, who exhibit logical thinking, creativity, imagination, and persistence. They should have proved their academic excellence in mathematics, chemistry, and physics.

At the undergraduate level, the basic required program of instruction in fundamental theory and laboratory practice is balanced by a broad range of electives in such fields as computers, communication systems, control systems, power systems, solid state, and integrated electronics. The student, with the counsel and guidance of faculty advisers, designs his or her electives program around their own special interest. The student majoring in the curriculum is preparing to contribute and progress in their chosen field related to the diverse technological areas of electrical engineering.

LOCATION: Tamiami Campus  
DEGREE: Bachelor of Science

### ELECTRICAL ENGINEERING CURRICULUM

EEN 2371	Introduction to Electrical Engineering (MDCC Course or Equivalent)
OR	
EEL 3111	Circuits I
EEL 3303	Electronics I
EEL 3112	Circuits II
EEL 3514	Communication Systems
EEL 3657	Control Systems
EEL 3712	Logic Design I
EEL 4304	Electronics II
EEL 4213	Power Systems I
EEL 4314	Integrated Circuits and Systems
EEL 4709	Computer Design
PHY 4323	Electromagnetism
	Technical Electives—3 Courses

### Course Descriptions

**ELECTRICAL ENGINEERING:**  
Definition of Prefixes  
EEL — Engineering: Electrical

**EEL 3111 Circuits I with Lab (4)**  
Introductory electronics courses dealing with the DC, AC and transient electrical circuit analysis, involving passive elements such as resistors, capacitors, inductors, transformers, etc. Prerequisites: MAC 3412, PHY 3049C. Corequisite: MAP 3302.

**EEL 3112C Circuits II (3)**  
Application of operational methods to the solution of electrical circuit effect of poles and zeros on the response and transfer function of electrical networks. Laplace and Fourier transforms; poles, zeros, network, parameters. Prerequisite: EEL 3111.

**EEL 3303 Electronics I with Lab** (4)  
Introductory electronics course dealing with the properties of basic electronic devices such as diodes, transistors, FETs, SCRs, etc., and their circuit applications. Prerequisite: EEL 3111.

**EEL 3514C Communication Systems** (3)  
An introductory course in the field of analog and digital communication systems. Transmitters, receivers, and different modulation and demodulation techniques are studied. A basic treatment of noise is also included. Prerequisites: EEL 3111, STA 3033, and PHY 4323.

**EEL 3657C Control Systems** (4)  
Analysis of linear, constant parameter control systems. Concept of feedback, root-locus techniques, Bode plots, industrial controllers, stability, etc. Laboratory experiments to supplement class lectures. Prerequisite: EEL 3112C.

**EEL 3712C Logic Design I** (4)  
Boolean Algebra. Binary number systems. Combinational logic design using SSI, MSI and LSI. Sequential logic design. Corequisite: EEL 3111.

**EEL 4140 Filter Design** (3)  
Approximation techniques. Active RC second order modules. Low pass filters, bandpass filters, high pass filters, notch filters are studied in detail. Sensitivity and high order filters. Design and laboratory implementation. Prerequisites: EEL 3112C, EEL 3657C.

**EEL 4213 Power System I** (3)  
To introduce the student in the theory of the basic power system components, the electromagnetic relays, the transformer and the electric machines. Will begin with review of single-phase and polyphase circuits. Prerequisite: EEL 3111, Corequisite: EEL 3112C.

**EEL 4214 Power Systems II** (3)  
An introduction to the power system from the utilities point of view. Tools utilized by power engineers in planning and operation will be introduced. Transmission line impedance calculations and utilization of digital computer. Prerequisites: EEL 4213, EEL 3112C.

**EEL 4215 Power Systems II** (3)  
An in-depth look to the electric power system. Shortcircuit calculations and transient stability as well as dynamic studies will be discussed. Basic tools of reliability and security of systems. Prerequisite: EEL 4214.

**EEL 4304 Electronics II with Lab** (4)  
Second course in electronics with particular emphasis on equivalent circuit representation and analysis of electronic analog and switching circuits and systems, their frequency response and behavior under feedback control. Prerequisite: EEL 3303. Corequisite: EEL 3112C.

**EEL 4314 Integrated Circuits and Systems with Lab** (4)  
Continuation of Electronics II with major emphasis on applications of electronic integrated circuits and design of analog, control, communication, and digital oriented electronic systems. Prerequisites: EEL 4004, EEL 3657C.

**EEL 4461C Antennas** (3)  
Introduction to linear antennas, linear arrays and aperture antennas. Far field pattern calculation and measurement techniques. Prerequisite: EEL 3514C.

**EEL 4500 Digital Communication Systems I** (3)  
Course will consider most important aspects of digital communication systems such as definitions, deterministic signals, random signals, linear systems, and baseband digital modulation. Prerequisites: STA 3033, EEL 3514C, EEL 3112C.

**EEL 4501 Digital Communication Systems II** (3)  
Course will consider more important aspects of digital communication systems such as matched filters, digital base and modulation, multiplexing, carrier digital modulation, and error correction coding. Prerequisite: EEL 4500.

**EEL 4515 Advance Communication Systems** (3)  
Advance senior level course designed for those students who desire to enhance their engineering knowledge in communication systems. State-of-the-art techniques in FM, digital communication, phase lock loops, noise treatment, threshold improvement, etc. Prerequisites: EEL 3514C, EEL 4304.

**EEL 4611 Advance Control Systems—Analog** (3)  
A design course in analog control systems. Industrial controllers, control algorithms, design by root-locus methods, design by Bode plots, Bullemin-Thurax approach, pseudo-derivative plus controllers, etc. Include projects designed and implemented in lab. Analog computer simulation. Prerequisites: EEL 3657C, EEL 4304.

**EEL 4612 Digital Control System** (3)  
Analysis and design of digital control systems. Z transforms, digital controllers; microprocessor application to control systems. Direct digital control and several other digital control algorithms are extensively covered. Prerequisite: EEL 3657C.

**EEL 4709 Computer Design** (4)  
Computer architecture. Arithmetic units. RAM, ROM, Tape, Disk memory systems. Data, input/output, and channels. Distributed and centralized control. Prerequisites: EEL 3712C, FORTRAN.

**EEL 4713 Digital Logic Design II with Lab** (4)  
Upper division course in design system design using state-of-the-art digital integrated circuits and concepts leading to realization of practical digital electronic systems. Prerequisites: EEL 3712C, EEL 3303.

**EEL 4757 Microcomputers I** (4)  
RAM, ROM, and CPU and architecture. Instruction sets. Timing sequences. Sub-routines. Interrupts. Peripherals. Applications. System design. Prerequisites: EEL 3712C, FORTRAN, EEL 4709.

**EEL 4905 Individual Problems in Electrical Engineering** (1-3)  
Selected problems or projects in the student's major field of electrical engineering. It can be extended to a maximum of 9 hours. Student works independently with a minor advisement from designated faculty member. Prerequisite: Senior level, recommendation of chairperson.

**EEL 4914 Electrical Engineering Projects Laboratory** (1)  
Advanced undergraduate laboratory involving engineering applications in the different fields of electrical engineering. May be extended for additional credit. Prerequisites: EEL 4304, EEL 3712C, EEL 3657.

**EEL 4930 Special Topics in Electrical Engineering** (1-3)  
Special topics covering selected topics in electrical engineering. Prerequisite: Permission of instructor.

**EEL 4949 Co-Op Work Experience** (3)  
Practical co-op engineering work under approved industrial supervision. Prerequisite: Sophomore year.

**EEL 5145 Advanced Filter Design** (3)  
Graduate course in the design and advance analysis of passive and active high order circuits. Use of computer as a design tool. Prerequisite: EEL 4140.

**EEL 5719 Digital Filters** (3)  
Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisites: EEL 4140, EEL 4709.

## Electrical Engineering Technology

James Story, *Associate Professor and Chairperson*  
Manuel Cereijo, *Associate Professor*  
Alvin Glenn, *Professor*  
Wunnava Subbarao, *Associate Professor*

The Electrical Engineering Technology program has been discontinued as of Spring 1983.

## Course Descriptions

### COMPUTER ENGINEERING TECHNOLOGY

#### Definition of Prefixes

ETE — Engineering Technology: Electrical; COP — Computer Programming.

**ETE 3620C Logic Design** (3)  
Karnaugh maps and Quine McCluskey reduction techniques, study of analytical and empirical tools necessary to design with digital ICs, combinational logic, and sequential circuits are considered (includes lab). Prerequisite: Boolean Algebra.



**ETE 3650C Computer Hardware****Fundamentals (3)**

Analysis of computer elements and systems composed of flip-flops registers, counters, adders, etc., study of 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 (3)**

Study of hardware computer systems and components in a laboratory environment, arithmetic and memory system, complete minicomputer, digital communications system, digital modern input-output interface (includes lab). Prerequisite: ETE 3620C.

**ETE 4621C Advanced Logic Design (3)**

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, modern, arithmetic circuits, etc. Prerequisite: ETE 3620C.

**ETE 4669 Micro Computers I (3)**

Lecture/Lab — Including hardware, organization, interfacing, system components, application, design and selection. System development and usage through software. Prerequisites: COP 3110 and ETE 3661C.

**ETE 4683C Microcomputers II (3)**

This course will emphasize design & applications of digital systems using specific microcomputers from an equipment designer's point of view. Hardware, software, & system design concepts will be considered including hands-on hardware and software projects. Prerequisite: ETE 4669 or equivalent.

**COOPERATIVE EDUCATION****Definition of Prefixes**

ETG — Engineering Technology: General.

**ETG 3949 Cooperative Education Technology (3)**

Supervised full-time work semester for technology cooperative education students. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

**ETG 4949 Cooperative Education Technology (3)**

Supervised full-time work semester 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**

ETG — Engineering Technology: Electrical;  
ETG — Engineering Technology: General; BCN — Building Construction.

**BCN 3521 Electrical Systems in Construction (3)**

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 (3)**

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 (1)**

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 Circuit Analysis with Calculus (3)**

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 using calculus. Prerequisite: MAC 3412 or equivalent.

**ETE 3035C Electric Circuits Lab and Computations (3)**

Introduction to laboratory equipment and circuit experiments. Oscilloscopes, meters, generators, power supplies, resistor, capacitor, and inductor circuits, both DC and AC. Part of the course is devoted to working problems assigned in the co-requisite course ETE 3034C. Corequisite: ETE 3034C.

**ETE 3101 Electronics with Calculus (3)**

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 (3)**

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 (3)**

Study of virtually all modern semiconductor devices with applications, MOSFET, photodetectors, thyristors, unijunction transistors, special diodes, etc. (includes lab). Prerequisite: ETE 3101 or equivalent.

**ETE 3232C Practical Linear Systems (3)**

Basic concepts and application of linear systems, feedback systems, stability analysis, Bode plots and root-locus techniques. Prerequisite: ETE 3121C.

**ETE 3421C Communication Systems (3)**

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 (3)**

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 3426C Electric Machinery (3)**

Analysis of rotating electric machinery with emphasis on industrial applications (includes lab). Prerequisite: ETE 3565C or equivalent.

**ETE 3565C Introduction to Electrical Power (3)**

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 (3)**

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 (3)**

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. Prerequisites: ETE 4123C and ETE 3620.

**ETE 4170C Passive and Active Filters (3)**

Practical application of passive and active filters to communication and process control systems, laboratory applications. Prerequisite: ETE 3121C.

**ETE 4171C Advanced Filter Design (3)**

This course puts together theories, techniques and procedures which can be used to design & implement analog and digital filters. Prerequisite: ETE 4170.

**ETE 4324C Process Control Instrumentation (3)**

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 (3)**

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** (3)

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 4563C Electrical Systems in Industry** (3)  
Design of electrical systems for industrial, commercial and residential buildings in accordance with the National Electric Code. Prerequisite: ETE 3030 or ETE 3034C.

**ETE 4565C Electrical Power Systems I** (3)  
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** (3)  
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 instructor's consent.

**ETE 4665C Digital Process Control Systems** (3)

Study of digital process control systems. Time frequency response to discrete systems. Digital controllers. Application of industrial processes. Laboratory work with digital components and systems (includes lab). Prerequisite: ETE 3323C.

**ETE 4666C Control System Design** (3)  
State of the art design of analog and digital control systems. Controllers, control algorithms, hardware implementation. Use of analog computer & microprocessors. Prerequisite: ETE 4325. Corequisite: ETE 4665C.

**ETG 4905 Independent Study** (1-3)  
Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

**ETG 4930 Special Topics** (1-3)  
For a group of students who wish an intensive study of a topic not otherwise offered in the University. Consent of faculty supervisor and Department Chairperson is required.

## Mechanical Engineering

Emmanuel Nwadike, *Associate Professor and Acting Chairperson*  
Sergio Alcorta, *Associate Professor*  
Rene Leonard, *Associate Professor*  
Ian Radin, *Associate Professor*  
Umur Yuceoglu, *Associate Professor*

## Course Descriptions

**MECHANICAL ENGINEERING:****Definition of Prefixes:**

EGN — Engineering: General: EML — Engineering: Mechanical

**EGN 3321 Dynamics** (3)  
Study of the motion of particles and members. A vector approach is utilized. Prerequisites: MAC 3412, EGN 3311.

**EGM 3520 Engineering Mechanics of Materials** (4)  
Analysis of axial, torsional, bending and combined stresses and strains. Plotting of shear, moment and deflection diagram with calculus applications and interpretations. Prerequisite: MAC 3412 and EGN 3311.

**EGN 3343 Thermodynamics I** (3)  
Fundamental concepts of basic thermodynamics including first and second law topics, equations of state and general thermodynamic relationships. Prerequisite: MAC 3412.

**EGN 3365 Materials in Engineering** (3)  
A study of materials used in engineering. Includes atomic structure phase diagrams and reactions within solid materials. Prerequisite: CHM 3045.

**EML 3301 Instrumentation** (3)  
A practical study of common instrumentation techniques. Prerequisite: EEL 3311.

**EML 3500 Mechanical Design I** (3)  
Design of basic machine members including shafting springs, belts, clutches, chains, etc., Prerequisites: EGN 3321, EGM 3520.

**EML 4101 Thermodynamics II** (3)  
Continuation of Thermodynamics I covering reactive and nonreactive mixtures and various thermodynamic cycles. Prerequisite: EGN 3343.

**EML 4140 Heat Transfer** (3)  
Study of fundamentals of basic heat transfer including conduction, convection, and radiation. Computer applications. Prerequisites: EGN 3343, FORTRAN.

**EML 4220 Mechanical Vibrations** (3)  
Theory and application of mechanical vibrations. Includes damped and undamped vibrations with one or more degrees of freedom. Prerequisites: EGN 3321, EGM 3520.

**EML 4411 Mechanical Power Theory** (3)  
Study of various techniques used in generating power. Emphasis of large central station power plants. Prerequisite: EML 4101.

**EML 4501 Mechanical Design II** (3)  
Continuation of design analysis of elementary machine elements, including lubrication bearings, and gears. Introduction to advanced analysis techniques. Prerequisite: EML 3500.

**EML 4601 Refrigeration and Air Conditioning Principles** (3)  
The theory, operation, and control of various types of cooling systems. Prerequisite: ENG 3343.

**EML 4601L Refrigeration and Air Conditioning Lab** (2)  
Experiments in Air Conditioning applications. Corequisite: EML 4601.

**EML 4906L Mechanical Lab I** (2)  
Experiments with various types of mechanical equipment including engines, fans, boilers, pumps, etc. Corequisite: EGN 3343.

**ENV 3353 Fluid Mechanics** (4)  
A study of the properties of fluids and their behavior at rest and in motion. Buoyance and stability. Momentum and energy considerations in fluid flow. Prerequisite: EGN 3311.

## Mechanical Engineering Technology

Emmanuel Nwadike, *Associate Professor and Chairperson*  
Rene Leonard, *Associate Professor*  
Sergio Alcorta, *Associate Professor*  
Ian Radin, *Associate Professor*  
Umur Yuceoglu, *Associate Professor*

The Mechanical Engineering Technology Program is designed to serve the student who is interested in the practical application of Engineering concepts in areas such as Manufacturing, Production, Design, Installation, Operation, Administration, Service and Sales. There is a strong emphasis on solving real life technical problems and on how to make reasonable engineering assumptions. Mathematics through Calculus is required. The student generally specializes in either Thermal/Fluid Sciences or Material/Design areas.

The student graduates with a Bachelor of Science Degree in Mechanical Engineering Technology.

## Mechanical Engineering Technology

This program offers specialization in the application of energy, materials, mechanics, and design to industrial problems.

LOCATION: Tamiami Campus.

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, FORTRAN.

**Remarks:** A student without this preparation may obtain it while completing the upper division program by selection of additional electives.

**UPPER DIVISION PROGRAMS:**

	<i>Semester Hours</i>
<b>Major Requirements:</b>	64
ETG 3520L Materials Testing Lab	1
ETG 3530 Strength of Materials	3



BCN 3560	Mechanical Systems in Construction	3
ETI 4671	Engineering Economy	3
ETG 3510	Dynamics	3
ETM 3801	Basic Materials	3
ETM 3510	Mechanical Design I	3
ETM 3205	Thermodynamics I	3
ETM 4225	Energy Systems	3
ETM 4720	Air Conditioning & Refrigeration Prin.	3
ETM 4221L	Mechanical Laboratory	2
ETM 4652L	Instruments and Measurements Laboratory	2
ETM 4643L	Air Conditioning and Refrigeration Laboratory	2
ETE 3030	Survey of Electronics	3
ETM 3111	Solar Energy Design	3
ETE 3565C	Introduction to Electrical Power	3
EVS 3215C	Applied Hydraulics	3
ENC 3353	Report & Technical Writing	3
ETM 4238	Heat Transfer	3
ETM 4206	Thermodynamics II	3

\*Electives: (Must be selected from one subject specialization)

Minimum Upper Division Required

64

### \*Specializations

#### A. Heating, Ventilating & Air Conditioning

ETE 4563C	Electrical Systems in Industry	3
ETM 4750	Air Conditioning Design I	3
ETM 4752	Air Conditioning Design II	3

#### B. Power & Energy

ETM 3312	Fluid Mechanics	3
ETM 5515	Solar Energy Technology and Applications	3
ETM 4560	Mechanical Power Theory	3
ETE 3526C	Electrical Machinery	3
ETE 4565C	Electrical Power Systems II	3

#### C. Manufacturing & Design

ETI 3110	Quality Control	3
ETI 3661	Plant Layout	3
ETI 3645	Production in Planning and Control	3
ETI 4660	Material Handling	3
ETM 4511	Mechanical Design II	3

Including both lower and upper division course work, each student must complete a minimum of 24 semester hours in communications, social science, and humanities, and a minimum of 24 semester hours in basic science and mathematics (general education requirements.)

### Definition of Prefixes:

BCN — Building Construction; COP — Computer Programming; ETG — Engineering Technology; General; ETI — Engineering Tech-

nology; Industrial; ETE — Engineering Technology; Electrical; ETM — Engineering Technology; Mechanical; MAC — Mathematics; Calculus.

BCN 3560C Mechanical Systems in Construction (3)  
A survey of plumbing, heating, air conditioning and ventilation systems for building.

ETG 3510 Dynamics (3)  
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 I (3)  
An introduction into the processes used to convert raw materials into finished products. Includes information on casting, forging, machining, and forming.

ETM 3311 Solar Energy Design (3)  
Review of theory and technical aspects of solar energy principles and their use in practical engineering design.

ETM 3312 Fluid Mechanics (3)  
A study of the development, transmission, and utilization of power through fluid power circuits and controls. Prerequisite: MAC 3412

ETM 3510 Mechanical Design I (3)  
Design analysis of elementary machine members including shafting, springs, screws, belts, clutches, brakes, chains, welds, and rivets. Prerequisites: ETG 3510, ETG 3530, or equivalent.

ETM 3801 Basic Materials (3)  
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 3205 Thermodynamics I (3)  
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 4206 Thermodynamics II (3)  
Continuation of the basic course in thermodynamics with particular attention to combustion processes, thermodynamic aspects of fluid flow, compressible flow, steam and vapor power cycles. Prerequisite: ETM 3205.

ETM 4205L Applied Thermodynamics Laboratory (2)  
Conduction, convection and radiation experiments, regeneration, stirring and air standard power cycles, combustion processes. Prerequisite: ETM 3205.

ETM 4221L Mechanical Laboratory 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.

ETM 4225 Energy Systems (3)  
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. Prerequisite: ETM 3205 or equivalent.

ETM 4511 Mechanical Design II (3)  
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 Laboratory (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 3205.

ETM 4652L Instruments and Measurements Laboratory (2)  
A practical study of common instrumentation elements and measurement systems used in mechanical applications. Prerequisite: ETE 3030 or equivalent.

ETM 4720 Air Conditioning Refrigeration Principles (3)  
The theory, operation and control of heat pump cooling and heating; chemical absorption cooling and steam jet refrigeration systems. Prerequisite: ETM 3205.

ETM 4750 Air Conditioning Design I (3)  
Psychrometry comfort; mechanical refrigeration; heat pumps; load calculators; cooling coil performance; heating and humidification; air distribution duct design fans. Prerequisite: ETM 4720.

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 4238 Heat Transfer (3)  
Fundamental concepts of conduction, convection and radiation heat transfer, including practical numerical analysis in addition to conventional analytical and empirical methods. Prerequisites: MAC 3412 and ETM 3205.

ETM 4560 Mechanical Power Theory (3)  
A study in the theory and application of different mechanical power systems. Includes internal combustion engines, gas turbines, steam systems, and other specialized systems. Prerequisite: ETM 3205.

ETM 5515 Solar Energy Technology and Applications (3)  
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 4225, ETM 3111.

# School of Health Sciences

Associate Dean Katharine R. Curry  
Acting Associate Dean Reba L. Anderson,

The School of Health Sciences offers programs of professional study in the health professions and promotes the articulation between the academic units and the clinical, experiential settings. Approximately 300 different clinical centers are utilized in the degree programs of the health professions.

The administrative units of the School offer courses of study leading to a baccalaureate degree in Dietetics and Nutrition, Medical Records, Medical Technology, Occupational Therapy, and Physical Therapy. A Master's degree is offered in Dietetics. All degree programs are fully accredited by their respective professional accrediting body.

Students interested in applying for admission to a department in the School should contact that department for specific prerequisites and admission requirements. Specialized admission procedures are required for the Dietetics Coordinated Undergraduate Program, Medical Technology, Occupational Therapy, and Physical Therapy.

## Dietetics and Nutrition

Nancy Wellman, Associate Professor and Chairperson  
Sarah Blackburn, Assistant Professor  
Katharine R. Curry, Professor and Associate Dean  
Penelope Easton, Professor  
Susan Himburg, Associate Professor and Director, Coordinated Undergraduate Program  
Rasheed Khan, Associate Professor

The Department offers a major leading to a baccalaureate degree with a concentration in general dietetics, and courses in nutrition for allied disciplines and students interested in nutrition. The Department also offers a Master of Science degree in dietetics with areas of concentration in clinical and community dietetics or dietetic management. The undergraduate programs are designed to assist the student to gain basic practitioner knowledge and skills. 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 both academic and experience requirements of the American Dietetic Association for active membership.

The University student must make formal application to the Department for the clinical portion of the program by March 1 before Fall admission. This special application form can be obtained from the Department. Students must enroll in DIE 3005 — Orientation to Dietetics the summer prior to Fall admission. Students will be provisionally admitted in August based on satisfactorily completing the Fall Semester. Clinical courses are sequential and require two years to complete. Clinical experiences are available in several hospitals and other health agencies. Students must satisfactorily complete a written comprehensive exam to graduate from the program. 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. This program will meet Plan IV requirements of The American Dietetic Association.

### General Dietetics

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

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) organic chemistry, two term course with lab or one term complete course with lab; (4) one course in business management; (5) one course in basic foods; (6) one course in basic nutrition; and (7) microbiology.

UPPER DIVISION PROGRAM:

**Semester Hours**  
**Major Required Courses:** 72  
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 dietetic courses.

Junior Year Summer Term	
DIE 3005	Orientation to Clinical Dietetics* 2
Fall Term	
HUN 4410	Nutrition: Infancy—Adolescence 3
DIE 3317	Dietetics in Community Health 3
DIE 3355	Dietetics in Community Health Practicum* 4
FSS 3316	Food Science for Institutions 3
Spring Term	
DIE 3125	Management of Dietary Systems 3
DIE 3175	Management of Dietary Systems Practicum* 6

DIE 3245	Diet Therapy I	3
DIE 3275	Applied Diet Therapy	2
FOS 4041	Food Science	3
Summer Term		
DIE 4435	Dietetic Instruction and Counseling	3
DIE 4436	Dietetic Instruction and Counseling Lab	1
Senior Year Fall Term		
DIE 4246	Diet Therapy II	3
DIE 4277	Diet Therapy II Practicum*	7
DIE 4365	Dietetic Management of Nutrition Programs	3
DIE 4377	Applied Dietetic Management of Nutrition Programs	2
HUN 4241	Nutrition II	3
Spring Term		
DIE 4536	Advanced Clinical Practicum*	15
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, computer science.

### Graduate Program

The Department of Dietetics and Nutrition offers a graduate program leading to the Master of Science degree in Dietetics, with a sub-specialty in either Clinical and Community Dietetics or Dietetic Management. The program is designed to meet the needs of the professional practitioner of dietetics. Graduate assistantships are available.

The Clinical and Community Dietetic track allows concentration in nutrition research or applied nutrition. Students enrolled in this program may prepare themselves for positions of responsibility in nutritional care administration, community health agencies or private practice. The Dietetic Management track builds on the nutrition background of students to broaden their management skills and expertise. Several advanced courses in the School of Hospitality Management and College of Business and Organizational Sciences are recommended in the program of study. Graduates may assume directorships of Nutrition, Food and Dietetic Services Departments.

Admission to the program requires completion of The American Dietetic Association Plan IV academic requirements. Interested students with undergraduate degrees in related fields may be eligible for enrollment in the graduate program upon completion of graduate course prerequisites. All students must complete ADA academic requirements prior to completion of the Masters of Science degree. An appointment should be made with the Department Chairperson to discuss exceptions and unusual circumstances whereby several graduate courses may count doubly in meeting Master of Science degree requirements and ADA academic requirements.



Minimum entrance requirements, under current Board of Regents policy, must be met. This includes a combined score of 1000 on the Verbal and Quantitative Aptitude 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 catalog. A personal interview or suitable letters of reference will be required for admission.

Students who are candidates for the Master of Science degree in Dietetics must complete a minimum of 37 semester hours of graduate study and 30 hours of this must be completed at the University. All of the work must be of recent enough date to be relevant to the field of nutrition today.

An Advanced Practicum option is planned for students not previously completing professional experience requirements of The American Dietetic Association (ADA). Limited enrollment for these additional 9 semester hours will be available contingent upon prior ADA approval.

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 Chairperson of the Department of Dietetics and Nutrition by the end of the student's first semester of full-time study.

Retention in the Master of Science in Dietetics program requires maintenance of a "B" grade point average. Completion of the program will be documented by oral and written examinations.

#### Course Requirements For M.S. in Dietetics Semester Hours

##### Research (8-14) 37

\*\*\*DIE 6568 Research Methods in Dietetics 3

\*\*\*DIE 6578 Field Research Methods in Dietetics 3

##### OR

HUN 6558 Laboratory Research Methods in Dietetics 2

Statistics at the Graduate Level 2-3

DIE 6971 Thesis in Dietetics 6

##### Scientific Knowledge (5-8)

\*\*\*DIE 6937 Graduate Seminar in Dietetics 2

\*HUN 5245 Nutrition and Biochemistry

##### OR

HUN 6247 Nutritional Pathophysiology 3

\*\* FOS 6044 Advanced Food Science 3

##### Or Recommended Elective

##### Application to Discipline (6-12)

\*DIE 5247 Diet in Disease Prevention and Treatment

##### OR

DIE 6593 Special Topics in Dietetics 3

\*\*DIE 6128 Advanced Management of Dietary Systems 3

\*HUN 6521 Advanced Community Nutrition

##### OR

HUN 6408 Nutrition During the Life Cycle 3

HUN 5123 Ethnic Foods and Nutrition 3

HUN 5611 Nutrition Education in the Community 3

HUN 5621 Food, Nutrition and Communication 3

##### Or Recommended Elective

##### Practice (3-6)

\*\*\*DIE 6368 Advanced Techniques in Dietetic Practice 3

DIE 6908 Supervised Field Study in Dietetics 3

##### Or Recommended Elective

\*Required for Clinical/Community Track

\*\*Required for Administrative Track

## Course Descriptions

### Definition of Prefixes

DIE — Dietetics; FOS — Food Science; FSS — Food Service Systems; HUN — Human Nutrition

### DIE 3005 Orientation to Dietetics (2)

Survey of role and responsibilities of the 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 (3)

Survey of various types of institutional food service systems. Will cover management concepts in planning, implementing and evaluating food service systems. Prerequisites: Basic Management, Quantity Food Preparation.

### DIE 3175 Management of Dietary Systems Practicum (6)

Provides for developing skills as listed for DIE 3125. Clinical assignments will be made in several food service institutions in this area. Clinical component: open only to a student in the Coordinated Undergraduate Program. Prerequisite: DIE 3355.

### DIE 3245 Diet Therapy I (3)

Techniques of adjusting nutrients and food intake to accommodate medical treatments and previous nutriture. Menu writing and analysis, translation of dietary prescriptions, techniques of dietary instruction, dietary histories. Prerequisites: HUN 3201, DIE 3317, HUN 4410, Physiology.

### DIE 3275 Applied Diet Therapy (2)

Observations and participation in dietary treatment activities. In clinical institutions and simulated settings, application of menu writing, techniques of diet history and instruction. Corequisite: DIE 3245.

### DIE 3317 Dietetics in Community Health (3)

Study of community agencies available for nutrition guidance for differing age groups. Emphasis on nutritional and educational needs of clients. Prerequisites: HUN 3201, DIE 3005. Prerequisite or Corequisite: HUN 4410.

### DIE 3355 Dietetics in Community Health Practicum (4)

Observation and participation in activities of community agencies. Nutrition education and counseling experiences. Clinical component: Open only to a student in the Coordinated Undergraduate Program. Corequisite: DIE 3317.

### 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 (3)

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 4277 Diet Therapy II Practicum (7)

Participation in activities in clinical affiliations focusing on nutritional assessment, planning, treatment and follow-up of patients. Clinical component: open only to a student in the Coordinated Undergraduate Program. Corequisite: DIE 4246.

### DIE 4296 Special Problems in General Dietetics (1-3)

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 (3)

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. Prerequisites: DIE 3125 or permission of the instructor, basic competency in management principles.

### DIE 4377 Applied Dietetic Management of Nutrition Programs (2)

Observation and participation in community agencies, institutions, and simulated setting for the development of entry level competencies in the management of nutrition and food service programs. Corequisite: DIE 4365.

### DIE 4435 Dietetic Instruction and Counseling (3)

Motivational methods and instructional techniques will be practiced in simulation activities for development of entry level competencies. Advanced standing in dietetics required. Pre or Corequisite: DIE 3245.

### DIE 4436 Dietetic Instruction and Counseling Lab (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** (15)  
 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. Prerequisites: DIE 4246, DIE 4277, and permission of Director of the Coordinated Undergraduate Program. Clinical component: Open only to a student in the Coordinated Undergraduate Program.

**DIE 5247 Diet in Disease Prevention and Treatment** (3)  
 Critical study — historical, current, and experimental. Standards of dietetic practice developed and analyzed. Prerequisites: Completion of American Dietetic Association PLAN IV and permission of Departmental Chairperson.

**DIE 5926 Workshop in Dietetics and Nutrition** (1-3)  
 Short term intensive development of selective subject matter in dietetics, nutrition, or nutrition education techniques and methods. Prerequisites vary according to subject.

**DIE 5946 Advanced Practicum in Community Nutrition** (1-6)  
 Pre-planned clinical experience at the professional level in community nutrition.

**DIE 5947 Advanced Practicum in Dietetic Administration and Management** (1-6)  
 Pre-planned clinical experience at the professional level in dietetic administration and management.

**DIE 5948 Advanced Practicum in Clinical Nutrition** (1-6)  
 Pre-planned clinical experience at the professional level in clinical therapeutic nutrition.

**DIE 6128 Advanced Management of Dietary Systems** (3)  
 Application of management and organizational theory to dietetic systems in health and community institutions. Completion of ADA PLAN IV (with two management courses) and permission of instructor.

**DIE 6368 Advanced Techniques in Dietetic Practice** (3)  
 Course will cover techniques and approaches in changing nutritional behavior, establishing private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community. Prerequisites: DIE 4435, DIE 4436 or equivalent.

**DIE 6568 Research Methods in Dietetics** (3)  
 Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: Admission to Master of Science in Dietetics program and permission of instructor.

**DIE 6578 Field Research Methods in Dietetics** (2)  
 Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches. Prerequisites: DIE 6568 and consent of Department Chairperson.

**DIE 6907 Individual Study in Dietetics** (1-3)  
 Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Consent of the Chairperson of the Department.

**DIE 6908 Supervised Field Study in Dietetics** (3)  
 Pre-planned practical experience at the professional level in an area of dietetics. Critical written evaluation by the student, developed with frequent consultation and supervision of instructor. Prerequisites: DIE 6578, 25 hours of graduate study, and permission of instructor.

**DIE 6937 Graduate Seminar in Dietetics** (1)  
 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. Two hours required of all graduate students. Student may repeat up to 3 hours.

**DIE 6938 Special Topics in Dietetics** (3)  
 In-depth study of historical, epidemiological prevention, and treatment aspects of topics related to dietetics. Prerequisites: PLAN IV ADA, competence in topic covered, admission to graduate program.

**DIE 6971 Thesis in Dietetics** (3-6)  
 Prerequisites: DIE 6578 or HUN 6811, 25 hours of graduate study and permission of Director of Thesis.

**FOS 3004 Food and the Consumer** (3)  
 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.

**FOS 3021 Fundamentals of Food** (3)  
 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** (3)  
 Physical and chemical changes in food occurring as a result of various methods of processing, preparation, and storage of foods. Prerequisites: Organic Chemistry, HUN 3122 or HUN 3201, FOS 3021 and FSS 3215, or equivalents.

**FOS 6044 Advanced Food Science** (3)  
 In-depth study of the various components of foods and the effect of different methods of processing on their physical and chemical characteristics. Prerequisites: ADA PLAN IV and permission of the instructor.

**FSS 3215 Meal Management and Service** (3)  
 Development of skills in basic techniques of purchasing, preparation, and service of food for individuals and small groups. Includes labora-

tory and experiences in demonstration techniques. Prerequisites or corequisites: HUN 3122 or HUN 3201, and FOS 3021 or equivalent, or permission of instructor, preparation in basic foods.

**FSS 3316 Food Science For Institutions** (3)  
 Course will emphasize proper food handling in institutional settings with use of sound management principles closely coordinated with food sciences advances and government regulations. Laboratory and field trips will be used to strengthen theoretical concepts. Prerequisite: FOS 3021.

**HUN 3017 Nutrition for Health Professionals** (3)  
 Study of basic nutrients and nutritional interrelationships with emphasis on normal nutritional needs for achieving and maintaining health. No prerequisites.

**HUN 3122 Nutrition and Culture** (3)  
 Nutrients and their interrelationships in reference to food habits and the needs of various population groups. Introduction to the impact of culture in nutrition and the study of personal food pattern development. Recommended for non-majors.

**HUN 3201 Principles of Nutrition** (3)  
 Nutrients and their interrelationships, requirements of individuals, and food sources. Investigates current controversies, fads/fallacies, and health related issues. Recommended for non-majors.

**HUN 3240 Metabolic Aspects of Nutritional Status** (3)  
 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. Prerequisites: nine semester hours chemistry and HUN 3122, or equivalent.

**HUN 4241 Nutrition II** (3)  
 Roles of nutrients in metabolic processes. Effects of excesses and deficiencies. Prerequisites: Organic Chemistry, Physiology, and HUN 3122 or equivalent.

**HUN 4410 Nutrition: Infancy Through Adolescence** (3)  
 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 or HUN 3201.

**HUN 5123 Ethnic Influences of Nutrition and Food Habits** (3)  
 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** (3)  
 Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion,



absorption, metabolism of nutrients, and determination of norms. Prerequisites: ADA PLAN IV and permission of instructor.

#### HUN 5611 Nutrition Education in the Community (3)

In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisite: Recent courses in nutrition education or permission of instructor.

#### HUN 5621 Food, Nutrition and Communication (3)

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. Prerequisites: Advanced standing, competency in food and nutrition knowledge.

#### HUN 5890 Recent Research in Dietetics (3)

Updating of dietetic information. Study of current food, management, and/or nutrition research. Prerequisite: Competency in food and nutrition. Recommended for non-majors.

#### HUN 6247 Nutritional Pathophysiology (3)

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. Prerequisites: ADA PLAN IV and permission of instructor.

#### HUN 6408 Nutrition During the Life Cycle (3)

In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and effects of deficiencies and excesses on metabolism. Prerequisite: HUN 4241 or equivalent.

#### HUN 6521 Advanced Community Nutrition (3)

In-depth study of assessment of nutrition in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and dietary care. Prerequisite: DIE 3317 or equivalent.

#### HUN 6811 Laboratory Research Methods in Dietetics (2)

Laboratory application of research methods in dietetics. Prerequisites: DIE 6568 and consent of department Chairperson.

## Medical Records Administration

Florence C. Amato, R.R.A., Ph.D., Associate Professor and Director  
Juanita Pursel, R.R.A., Assistant Professor

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, medi-

cine 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 Medical Record Administration Program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the Council on Education of the American Medical Record Association. Graduates are eligible to take the National Registration Examination, satisfactory completion of which allows one to become a Registered Record Administrator.

DEGREE: Bachelor of Science

Required Courses: Anatomy and Physiology including laboratory, Statistics, and Microbiology.

#### UPPER DIVISION PROGRAM:

	<i>Semester Hours</i>
<i>Major Required Courses:</i>	<b>52</b>
HSC 3152 Legal aspects of Medical Records	3
MRE 3001 Medical Terminology	3
MRE 3102C Medical Word Processing	2
MRE 3110 Medical Records Administration I	4
MRE 3202 Coding and Indexing Proc	4
MRE 3205 Medical Records Administration II	4
MRE 3401 Fundamentals of Medical Science	3
MRE 3402 Fundamentals of Medical Science II	3
MRE 3800 Directed Practice I	1
MRE 3810 Directed Practice II	1
MRE 4304 Problems in Medical Records Administration	3
MRE 4312 Medical Records Administration IV	4
MRE 4344 Medical Record Administration V	3
MRE 4400 Health Care Records Multi Institutions	3
MRE 4410 Medical Records Administration III	3
MRE 4830 Directed Practice III	1
MRE 4831 Directed Practice IV	1
MRE 4835 Internship Medical Records Management	3

*Support Courses:* **18**  
CIS 3300; COP 3172; HCA 4203, 4710;  
MAN 4301.

and definitions necessary for communication in the medical world.

MRE 3102 Medical Word Processing (2)  
Comprehension in transcription of medical records, including history and physical reports, x-ray, operative, and pathology reports.

#### MRE 310C Medical Records Administration I (3,1)(4)

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. Laboratory accompanying.

HSC 3152 Legal Aspects of Medical Records (3)  
Consideration of Medical Record as legal document to include general introduction to law, release of information, and legal actions.

#### MRE 3202 Coding and Indexing Procedures (3,1)(4)

Special registries; nomenclatures, coding and indexing; ICD — 9 — CM; Application of indexes to research. Laboratory accompanying.

#### MRE 3205 Medical Records Administration II (3,1)(4)

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. Laboratory accompanying.

#### MRE 3401 Fundamentals of Medical Science I (3)

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. Prerequisites: Anatomy and Physiology.

#### MRE 3402 Fundamentals of Medical Science II (3)

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, neurology, and orthopedics. Prerequisites: Anatomy and Physiology.

#### MRE 3800 Directed Practice I (1)

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 (1)

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; statisti-

## Course Descriptions

#### Definition of Prefix:

MRE — Medical Records.

#### MRE 3001 Medical Terminology (3)

Provides the student with basic medical language skills, including pronunciation, spelling,

cal reporting; correspondence; control of the incomplete medical record; and processing of the completed record.

**MRE 3949 Cooperative Education in Medical Record Administration** (3)  
Supervised work in Medical Records taking part in the University Cooperative Education Program. Prerequisite: Admission to Co-op Education.

**MRE 4304 Problems in Medical Records Administration** (3)  
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** (3,1)(4)  
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, actuating and controlling. Laboratory accompanying.

**MRE 4344 Medical Record Administration V** (3)  
Physical planning of department, purchase specifications, proposal writing, and cost justification. Prerequisite: MRE 4312C.

**MRE 4400 Medical Record Consulting** (3)  
Standards and procedures for long term, ambulatory care, home health, mental retardation, mental health, and other health care records.

**MRE 4403 Fundamentals of Medical Science III** (3)  
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 endocrinology, otorhinolaryngology, ophthalmology, oncology, genetics, and anesthesiology. Prerequisites: Anatomy and Physiology.

**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 4830 Directed Practice III** (1)  
This directed practice centers on utilization review procedures for hospitals and M.E.C. studies.

**MRE 4831 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 4835 Internship in Medical Records Management** (3)  
Management in a medical records department for five weeks under the supervision of a Registered Record Administrator.

**MRE 4850 Research in MRE** (3)  
Presents a practical methodology and approach to research in Medical Records.

**MRE 4905 Directed Independent Study** (1-3)  
Individual conferences, assigned readings, and reports on investigations in Medical Records.

**MRE 4932 Special Topics** (3)  
Designed to address topics not otherwise offered in the curriculum but specific to Medical Record Administration. Topics to be announced yearly.

**MRE 4949 Cooperative Education in Medical Record Administration** (3)  
Supervised work in Medical Records taking part in the University Cooperative Education Program. Prerequisite: MRE 3949.

## Medical Technology

Janet L. Zins, *Associate Professor and Chairperson*

Barbara V. Anderson, *Assistant Professor*  
Gary T. Haight, *Assistant Professor*  
Sylvia L. Smith, *Associate Professor*  
Pamela J. Staton, *Assistant Professor*

Medical technologists perform complex biological and chemical analyses on blood and other specimens to enable the physician to diagnose and treat disease. Individuals wishing to pursue a career in medical technology should have a strong science background with emphasis on laboratory analytical skills. They must be reliable, conscientious, interested in helping others, and recognize their responsibility for human lives in the practice of modern medicine. Students receive intensive didactic and laboratory training in the areas of clinical chemistry, hematology, immunohematology, and microbiology. Excellent opportunities for employment exist in hospital/government/industrial clinical laboratories, academic/industrial research laboratories, and in sales and technical services in clinical diagnostic products industries.

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 Board of Registry as a Medical Technologist, MT (ASCP); by the National Certification Agency for Medical Laboratory Personnel as a Clinical Laboratory Scientist, CLS (NCA); and for licensure as a Medical Technologist by the State of Florida. Clinical practice is conducted at Baptist, Cedars of Lebanon, Coral Gables, Mercy, South Miami, and Victoria Hospitals and South Florida Blood Service.

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

### LOWER DIVISION PREPARATION:

The student seeking admission to the program should have: (1) completed a minimum of 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) earned a minimum cumulative grade point average of 2.0 (on a scale of 4.0) in required science courses, (5) completed the following preparatory courses: two semesters of general biology with laboratory, two to three semesters of general chemistry with laboratory, two semesters of organic chemistry with laboratory, one semester of quantitative analysis chemistry with laboratory, one semester of general microbiology with laboratory, two semesters of college-level mathematics. (Survey or introductory courses in science and mathematics are not acceptable.)

### UPPER DIVISION PROGRAM:

The University-integrated "2+2" program has limited enrollment. Students are usually admitted to the program in Fall Semester, but may be admitted on a space-available basis in any semester providing prerequisite and corequisite courses have been completed. It is recommended that applications for Fall Semester be received by April 15 but applications will be processed throughout Summer Semester. An interview may be required. The medical technology professional courses and hospital clinical practice are open only to majors in the program (or by permission of instructor). Entrance to clinical practice depends upon satisfactory evaluation of the student's record by the faculty.

Alternate laboratory experience or clinical practice may be arranged on an individual basis for: (1) graduates of NAACLS-approved MLT programs; (2) students certified as MLT (ASCP); (3) students who have had experience in a clinical laboratory; and (4) students who have had military laboratory training.

Medical technology community service courses are taught for the continuing education of community clinical laboratory personnel.

### Required Courses

		Semester Hours
	<i>Junior Year</i>	
<i>Fall Semester</i>		
BCH 3033	Introduction to Biochemistry/ Biomolecules	4
MLS 3030C	Introduction to Medical Technology	1
MLS 3065C	Clinical Instrumentation	3
MLS 4120	Clinical Microbiology Correlations	1
MLS 4405	Clinical Microbiology	2
MLS 4405L	Clinical Microbiology Laboratory	3
		<b>14</b>
<i>Spring Semester</i>		
MLS 4140	Clinical Chemistry Correlations	1
MLS 4460C	Advanced Microbiology	3



MLS 4625	Clinical Chemistry Methods	3
MLS 4625L	Clinical Chemistry Laboratory	6
PCB 3233	Immunology	3
		16
<i>Summer Semester</i>		
MLS 3430	Medical Parasitology	2
MLS 3430L	Medical Parasitology Lab	1
MLS 4110	Clinical Hematology Correlations	1
MLS 4306	Clinical Hematology	3
MLS 4306L	Clinical Hematology Laboratory	3
MLS 4505	Clinical Immunology	1
MLS 4505L	Clinical Immunology Laboratory	2
MLS 4755C	Laboratory Statistics & Quality Control	2
		15
<i>Senior Year</i>		
<i>Fall Semester</i>		
MLS 4032C	Orientation to Clinical Rotation	1
MLS 4130	Immunohematology Correlations	1
MLS 4334	Clinical Coagulation	1
MLS 4334L	Clinical Coagulation Laboratory	1
MLS 4535	Immunohematology	3
MLS 4535L	Immunohematology Laboratory	3
MLS 4630	Advanced Clinical Chemistry	3
MLS 4705	Laboratory Management	1
MLS 4934	Seminar I	1
		15
<i>Spring Semester</i>		
MLS 4820L	Clinical Practice/Chemistry	4
MLS 4821L	Clinical Practice/Microbiology	4
MLS 4822L	Clinical Practice/Hematology	4
MLS 4823L	Clinical Practice/Blood Bank & Immunology	4
MLS 4935	Seminar II	1
		17
		76

## Course Descriptions

### Definition of Prefixes

MLS — Medical Laboratory Science

**MLS 3030C Introduction to Medical Technology (1)**  
Introduction to the profession of medical technology, history, ethics, employment opportunities. Instruction in blood collection techniques. Certification and licensure requirements.

**MLS 3240 Medical Mycology (2)**  
Study of the essential procedures and criteria in the identification of pathogenic fungi. Recogni-

tion of fungal contaminants commonly encountered in clinical specimens. Actinomycetes. Antimycotic agents. Mycoserology. Stains, reagents and media.

**MLS 3240L Medical Mycology Laboratory (1)**  
Laboratory to accompany MLS 3240.

**MLS 3430 Medical Parasitology (2)**  
Classification, morphology and life cycles of medically significant parasites. Emphasis is on microscopic identification, specimen preservation, and infection control.

**MLS 3430L Medical Parasitology Laboratory (1)**  
Laboratory to accompany MLS 3430.

**MLS 3605C Clinical Instrumentation (3)**  
Fundamentals of clinical laboratory instrumentation including basics of electricity and electronics, preventive maintenance, and quality control procedures will be emphasized.

**MLS 3700 Management Procedures for Laboratory Employees (1)**  
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 Maintenance (3)**  
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 4032C Orientation to Clinical Rotation (1)**  
Introduction to hospital environment and patient care. Medical ethics. Clinical facilities tour. Required laboratory tests for entrance into clinical rotation will be completed.

**MLS 4110 Hematology Correlations (1)**  
Present diseases associated with abnormal findings in laboratory tests performed in hematology, urinalysis, and clinical microscopy.

**MLS 4120 Microbiology Correlation (1)**  
Mechanisms of microbial infection. Host defense mechanisms. Disease symptoms and treatment. Problems in chemotherapy. Hospital isolation procedures.

**MLS 4130 Immunohematology Correlations (1)**  
Problems in blood compatibility testing, blood component therapy, syphilis, hepatitis, and HLA testing.

**MLS 4140 Clinical Chemistry Correlations (1)**  
Interpretation of biochemical tests used in diagnosis and treatment of disease.

**MLS 4150 Selected Topics in Clinical Correlations (1)**  
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 (VAR)

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 (1)**  
Control slides; special stains; preparation of tissues for EM; identification of significant tissue features for preparation of surgical slides. For experienced histotechnologists.

**MLS 4306 Clinical Hematology (3)**  
A basic course in the origin of erythrocytes and white blood cells, their morphology and function. The study of urine, its formation and microscopic morphology.

**MLS 4306L Clinical Hematology Laboratory (3)**  
Laboratory to accompany MLS 4306, dealing with manual and automated procedures for determining complete blood and platelet counts. Urinalysis and clinical microscopy.

**MLS 4307L Directed Study in Hematology (VAR)**  
Selected laboratory techniques to accompany MLS — 4306. For M.L.T.'s.

**MLS 4320C Advanced Hematology (2)**  
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 (1)**  
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 Hematology (VAR)**  
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 4334 Clinical Coagulation (1)**  
A basic course in the study of coagulation factors, platelets, the fibrinolytic system, platelet aggregation.

**MLS 4334L Clinical Coagulation Laboratory 1**  
Laboratory to accompany MLS 4334, dealing with manual and automated procedures for determining coagulation factor deficiencies and platelet function.

**MLS 4405 Clinical Microbiology (2)**  
Diagnostic microbiological procedures. Study of clinically significant organisms. Isolation media and biochemical tests for identification. Recognition of normal flora. Anaerobic procedures. Viruses, Fungi, Rickettsia. Serological typing. Antibiotic sensitivity tests. Prerequisite: General Microbiology.

- MLS 4405L Clinical Microbiology Laboratory** (3)  
Laboratory to accompany MLS 4405. Isolation and identification of normal and pathogenic flora from genuine and simulated clinical specimens. Identification of clinically significant fungi.
- MLS 4406L Directed Study in Clinical Microbiology** (VAR)  
Selected laboratory techniques to accompany MLS 4405. For M.L.T.'s.
- MLS 4460C Advanced Microbiology** (3)  
Lectures and laboratory. Identification of rare pathogens. Virology — tissue culture techniques. Mode of action and bacterial resistance to antibiotics.
- MLS 4465 Selected Topics in Microbiology** (1)  
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** (VAR)  
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 4505 Clinical Immunology** (1)  
Study of immunological procedures employed by the clinical laboratory for the diagnosis of diseases such as rheumatoid arthritis, infectious mononucleosis, syphilis.
- MLS 4505L Clinical Immunology Laboratory** (2)  
Diagnostic procedures and techniques performed in a clinical immunology laboratory such as precipitation, agglutination, syphilis serology and other immunoassays. Laboratory to accompany MLS 4505.
- MLS 4530C Advanced Immunohematology** (1)  
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 Immunohematology** (3)  
Fundamentals of Blood Banking including blood grouping, compatibility testing, antibody identification, blood group systems, hemolytic disease of the newborn, and blood components. Prerequisites: Immunology and Clinical Immunology.
- MLS 4535L Immunohematology Laboratory** (3)  
Laboratory to accompany MLS 4535.
- MLS 4536L Directed Study in Immunohematology** (VAR)  
Selected laboratory techniques to accompany MLS 4535. For M.L.T.'s.
- MLS 4551L Individualized Study in Immunohematology** (VAR)  
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 Immunohematology** (1)  
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** (3)  
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. Prerequisites: Clinical Instrumentation and Biochemistry.
- MLS 4625L Clinical Chemistry Laboratory** (6)  
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 4630 Advanced Chemistry** (3)  
Analysis of thyroid hormones, estrogens, adrenal hormones and metabolites, immunoassay, radioisotope measurement, amniotic fluid analysis, toxicology, multichannel analyzers, and chromatographic methods. Prerequisite: MLS 4625.
- MLS 4630L Advanced Chemistry Laboratory** (2)  
Laboratory to accompany MLS 4630.
- MLS 4635 Selected Topics in Clinical Chemistry** (1)  
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** (VAR)  
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 4705 Laboratory Management** (1)  
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)  
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 4820L Clinical Practice/Chemistry** (4)  
Practical experience in a hospital chemistry laboratory. All Medical Technology courses must

be completed before students will be permitted to register for clinical practice.

- MLS 4821L Clinical Practice/Microbiology** (4)  
Practical experience in a hospital microbiology laboratory.
- MLS 4822L Clinical Practice/Hematology** (4)  
Practical experience in a hospital hematology laboratory.
- MLS 4823L Clinical Practice/Blood Bank and Immunology** (4)  
Practical experience in a hospital blood bank and immunology laboratory.
- MLS 4934, 4935 Seminar I, II** (1)  
Two semesters 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*  
*Alice M. Bowker, Assistant Professor*  
*Suze Dudley, Assistant Professor*  
*Susan Heling, Assistant Professor*  
*Shirley Starling, Assistant Professor*

Occupational therapy is a health profession concerned with promoting the quality of life of individuals. Therapeutic techniques are directed toward restoration, reinforcement and enhancement of participation in life. Occupational therapy may be indicated for persons whose life has been interrupted by disease or injury, or those who suffer from developmental delays or problems associated with aging.

The occupational therapist assesses the client's abilities to carry out tasks and activities necessary for productive living. Working collaboratively with the client and considering his personal goals, lifestyle and environment, the therapist develops an intervention program designed to help restore the greatest possible functional capacity. During the treatment or rehabilitation process, the client actively engages in a directed program of purposeful, meaningful activities designed to increase his level of functioning. The occupational therapist works collaboratively with the client, other health professionals on the health care team, and community agency personnel. Occupational therapists serve a wide variety of individuals in all age ranges and work in settings such as community agencies, sheltered workshops, hospitals, schools, extended care facilities and rehabilitation centers. There is an increasing demand for occupational therapists and excellent opportunities exist for career advancement.

Qualities that are necessary to be a successful therapist include the ability to work with others, look at the totality of human performance, think creatively, problem solve, and direct the actions of others.



In order to be admitted to the program in occupational therapy, applicants must meet the requirements for admission to the University, have a cumulative G.P.A. of 2.5 or better, and have completed required prerequisites and 60 semester hours of acceptable academic credit. Applicants must apply both to the University and to the Occupational Therapy Department. Enrollment is limited and one class is selected each academic year to begin Fall semester. The program is accredited by the American Occupational Therapy Association/American Medical Association.

LOCATION: Tamiami Campus.

DEGREE: Bachelor of Science

#### LOWER DIVISION PREPARATION:

**Required Courses:** Biological and/or physical sciences — six semester hours to include three semester hours of biology with lab. Recommended courses: zoology with lab, anatomy and physiology. Social Behavioral Sciences — twelve semester hours to include: Psychology — six semester hours. Recommended courses: Theories of Personality, Dynamics of Behavior. Human Growth and Development — three semester hours. Sociology / Anthropology — three semester hours. Statistics — three semester hours.

#### UPPER DIVISION PROGRAM:

**Required Courses:** Semester Hours

		Junior Year
<b>Fall Semester</b>		
OTH 3000	Professional Development	3
OTH 3012L	Therapeutic Communication	2
OTH 3123L	Tools and Materials	2
OTH 3160C	Adaptive Living Skills	2
PCB 3702	Intermediate Human Physiology	3
ZOO 3731	Human Anatomy	3
ZOO 3731L	Human Anatomy Lab	1
		<hr/> 16

#### Spring Semester

OTH 3327	Issues in Psychosocial Dysfunction for Occupational Therapists	3
OTH 3328	Foundations of Psychiatric Occupational Therapy Theory	2
OTH 3413	Applied Kinesiology	2
OTH 3413L	Applied Kinesiology Laboratory	1
OTH 3520C	Developmental Theory I	3
OTH 3811L	Psychiatric Skills Lab for Occupational Therapists I	1
ZOO 4743	Neuroscience	3
ZOO 4743L	Neuroscience Lab	1
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#### Summer Semester

OTH 3815	Field Work Experience Level I	3
OTH 3007	Medical Terminology	1
		<hr/> 4

#### Senior Year

##### Fall Semester

OTH 4320	Psychiatric Occupational Therapy Theory and Evaluation	2
OTH 4321	Psychiatric Occupational Therapy Treatment I	1
OTH 4321L	Psychiatric Occupational Therapy Treatment I Laboratory	2
OTH 4411	Pathology and Medical-Surgical Disorders	3
OTH 4421C	Biomechanics in Rehabilitation	3
OTH 4422	Evaluation and Treatment of Central Nervous System Dysfunction	4
		<hr/> 15

##### Spring Semester

OTH 4112L	Therapeutic Media	3
OTH 4170L	Therapeutic Techniques in Physical Disabilities	2
OTH 4210	Developmental Theory II	2
OTH 4342	Psychiatric Occupational Therapy Treatment II	2
OTH 4342L	Psychiatric Occupational Therapy Treatment II Lab	1
OTH 4761	Professional Issues in Occupational Therapy	3
Elective	In Clinical Specialization	3
		<hr/> 16

##### Summer Semester (May, June, July)

OTH 4850	or	
OTH 4851	Field Work Experience	12

##### Fall Semester (August, September, October)

OTH 4850	or	
OTH 4851	Field Work Experience	12
		<hr/> 24

## Course Descriptions

#### Definition of Prefixes

OTH — Occupational Therapy; PCB — Biological Sciences; ZOO — Biological Sciences.

**OTH 3000 Professional Development** (3)  
History and theory of the discipline of occupational therapy, includes an introduction to clinical and community practice environments.

**OTH 3007 Medical Terminology** (1)  
A self-instructional program of medical terminology.

**OTH 3008C Fundamentals of Human Performance** (2)  
An introduction to the human body, its structure and function with an emphasis on visual assessment and palpation to evaluate physical dysfunction.

**OTH 3012L Therapeutic Communication** (2)  
Major focus of this course is on several modes of facilitating communication and opportunities for self-knowledge. Interpersonal Process Recall format is followed.

**OTH 3123L Tools and Materials** (2)  
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.

**OTH 3160C Adaptive Living Skills** (2)  
Evaluation and adaptation of environments within which typical occupational therapy clients interact; specific limiting factors of general disabilities; variety of techniques and aides which compensate or adapt for loss.

**OTH 3327 Issues in Psychosocial Dysfunction for Occupational Therapists** (3)  
The analysis and identification of patterns of behavior and functional performance pertinent to occupational therapy practice in psychiatry.

**OTH 3328 Foundations of Psychiatric Occupational Therapy Theory** (2)  
An overview of past and current theories influencing the practice of occupational therapy in psychiatry.

**OTH 3413 Applied Kinesiology** (2)  
**OTH 3413L Applied Kinesiology Lab** (1)  
A course providing learning experiences to develop skills in palpation, goniometry, manual muscle testing, and motion analysis of normal subjects.

**OTH 3520C Developmental Theory I** (3)  
Occupational therapy evaluation, treatment and management of developmental disabilities from birth through adolescence.

**OTH 3811L Psychiatric Skills Lab for Occupational Therapy I** (1)  
An experiential course directed toward integration and application of treatment modalities and principles for occupational therapists in psychiatry.

**OTH 3815 Field Work Experience Level I** (3)  
Pre-clinical experience in an approved training center.

**OTH 4112L Therapeutic Media** (3)  
The study of selected major crafts as therapeutic modalities.

**OTH 4170L Therapeutic Techniques in Physical Disabilities** (2)  
Upper extremity prosthetic and orthotic devices are investigated. Presentation includes the bio-mechanics, anatomy, materials and appliances necessary for fabrication, pre- and post-prosthetic and orthotic evaluation, checkout procedures and training methods.

**OTH 4210 Developmental Theory II** (2)  
The application of developmental theory to the occupational therapists' evaluation, treatment and management of adults and the aged.

**OTH 4320 Psychiatric Occupational Therapy Theory and Evaluation** (2)  
An in-depth study of occupational therapy theo-

rists and evaluations pertinent to the practice of occupational therapists in psychiatry.

**OTH 4321 Psychiatric Occupational Therapy Treatment I (1)**

**OTH 4321L Psychiatric Occupational Therapy Treatment I, Lab (2)**

A study of group process and the occupational therapist's use of groups and purposeful activity in psychiatric practice.

**OTH 4342 Psychiatric Occupational Therapy Treatment II (2)**

Occupational therapy treatment approaches for clients exhibiting maladaptive behavior patterns.

**OTH 4342L Psychiatric Occupational Therapy Treatment II Lab (1)**

Laboratory to accompany OTH 4342.

**OTH 4411 Pathology and Medical-Surgical Disorders (3)**

Brief review of organ systems and primary diseases that affect each organ, with specific emphasis on the disabilities that would result from such diseases. Prerequisites: Anatomy, physiology.

**OTH 4421C Biomechanics in Rehabilitation (3)**

The analysis and application of biological and physical principles to the evaluation and treatment of patients with physical disabilities.

**OTH 4422C Evaluation and Treatment of Central Nervous System Dysfunction (4)**

Occupational Therapy evaluation and treatment of central nervous system dysfunction for clients of all ages.

**OTH 4761 Professional Issues in Occupational Therapy (3)**

Professional issues facing occupational therapists including the role of research, organizational systems, and advocacy.

**OTH 4813L Psychiatric Skills Lab for Occupational Therapy II (1)**

Continuation of OTH 3811L.

**OTH 4850 Field Work Experience (12)**

Three months internship in a clinical setting.

**OTH 4851 Field Work Experience (12)**

Three months internship in a clinical setting.

**OTH 4852 Field Work Experience (VAR)**

Internship in a specialized treatment area.

**OTH 4904 Independent Study (VAR)**

To be arranged with instructor according to the student's specialty.

## Physical Therapy

Elizabeth O. Cormack, *Assistant Professor and Acting Chairperson*  
Burton J. Dunevitz, *Associate Professor*  
Awilda R. Haskins, *Assistant Professor*

The program received full five year accreditation in 1982 from the American Physical Therapy Association. The emphasis is placed upon a

student-centered approach whereby individuals progress through a variety of learning experiences designed to develop their evaluative and applied therapeutic skills in the treatment of musculoskeletal, neurologic, cardiovascular and pulmonary disorders.

The students receive experiential and didactic instruction from clinical physical therapists, physicians, and other medical professionals. Clinical education is conducted in accredited centers throughout the United States.

Graduates of the program are prepared to assume employment in general hospitals, rehabilitation centers, private clinics, home health care facilities, school systems, sports medicine units, and in the self-employed sector. Most graduates remain in South Florida after completion of the course of study.

Students who apply for admission to the program must meet the general education requirements of the University. Acceptance must be determined both by the University and the Physical Therapy Department. Enrollment is limited and admission is selective. *Students must contact the Physical Therapy Department directly for all applications and information materials.* Deadline for receiving applications is December 31. Classes are selected in April to commence coursework in August.

CAMPUS LOCATION: Tamiami Campus.

DEGREE AWARDED: Bachelor of Science

LOWER DIVISION PREPARATION:

*Required Courses:* At least 60 semester hours of an acceptable level of college credit work; at least one academic year of science coursework (including laboratory) in each of the areas of biology/zoology, chemistry, and physics as well as three courses in psychology (child development is recommended); a minimal grade point average of 2.85 in the above-listed courses; a minimal overall grade point average of 2.75 by December 31. Completion of at least 50 clock hours of work in, observation of, or interviews with personnel in physical therapy clinics. The greater the number of hours of experience and the wider the variety, the better qualified the candidates becomes.

### UPPER DIVISION PROGRAM:

*Semester Hours*  
*All Required Courses:* 95

#### Junior Year

##### Fall Semester

PHT 3001	Introduction to Physical Therapy	1
PHT 3122	Clinical Kinesiology	5
PHT 3122L	Clinical Kinesiology Laboratory	1
PHT 3201C	Basic Physical Therapy Techniques I	3
ZOO 3703	Human Physiology I	3
ZOO 3703L	Human Physiology Laboratory I	1
ZOO 3733	Gross Anatomy I	3
ZOO 3733L	Gross Anatomy Lab I	1

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##### Spring Semester

PHT 3133	Musculoskeletal Evaluation	3
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PHT 3133L	Musculoskeletal Evaluation Lab	1
PHT 3202C	Basic Physical Therapy Techniques II	4
ZOO 3704	Human Physiology II	3
ZOO 3704L	Human Physiology Lab II	1
ZOO 3734	Gross Anatomy II	3
ZOO 3734L	Gross Anatomy Lab II	1

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#### Summer Semester

PHT 3221C	Therapeutic Exercise	1
PHT 3310C	Orthopedics	4
PHT 3400	Emotional Aspects of Physical Disability	2
PHT 3804	Sections L <sub>1</sub> & L <sub>2</sub> Junior Clinical Internship	4
PHT 4905	Independent Study Electives	1-6 Var.

11-17 Var.

#### Senior Year

##### Fall Semester

PHT 4300	Physical Therapy & Human Disorders	3
PHT 4141	Evaluation of the Developing Child	3
PHT 4233C	Neurodevelopmental Techniques	3
PHT 4313	Neurology	4
PHT 4933	Independent Research in Physical Therapy	1
ZOO 4743	Neuroscience	3
ZOO 4743L	Neuroscience Lab	1

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##### Spring Semester

PHT 4231	Rehabilitation	3
PHT 4232C	Prosthetics and Orthotics	2
PHT 4234C	Neurophysiologic Techniques	3
PHT 4235C	Electrodiagnosis	2
PHT 4510	Organization and Administration	4
PHT 4823	Senior Clinical Clerkship	2
PHT 4934	Physical Therapy Research Seminar	1

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#### Summer Semester

PHT 4826	Clinical Internship	15
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## Course Descriptions

### Definition of Prefixes:

PCB and ZOO — Biological Sciences; PHT — Physical Therapy

#### PHT 3001 Introduction to Physical Therapy (1)

A survey of the profession vis-a-vis other health professions; ethics, and basic medical communication.

#### PHT 3122 Clinical Kinesiology (5)

A study of the anatomical, physiological, and biomechanical principles as related to the analysis of motion of the normal human body, with direct correlation to the clinical situation.



**PHT 3122L Clinical Kinesiology Lab (1)**  
Laboratory experiences in identifying and palpating the various components of the human musculoskeletal system while the body is at rest and in motion.

**PHT 3133 Musculoskeletal Evaluation (3)**  
Study techniques of muscle testing, joint mobilization, X-ray identification, gait evaluation, and posture examination.

**PHT 3133L Musculoskeletal Evaluation Lab. (1)**  
Laboratory experience and evaluation of skills in palpation, X-ray identification, muscle testing, goniometry, gait and posture evaluations, and joint mobilization.

**PHT 3201C Basic Physical Therapy Techniques I (3)**  
A study of the scientific rationale for and performance of the basic techniques of physical therapy including vital signs measurements, massage, and hydrotherapy.

**PHT 3202C Basic Physical Therapy Techniques II (4)**  
A lecture/laboratory presentation of the underlying physiological rationale, principles of physics and manual performance necessary for the application of the electrophysiologically oriented modalities.

**PHT 3221C Therapeutic Exercise (1)**  
Utilizing lecture/laboratory combination, the principles, rationale, and performance technique for basic clinical therapeutic exercise programs are presented. To be included are passive, active, manual resistive, and mechanical resistive exercise programs.

**PHT 3310C Orthopedics (4)**  
Multimedia lectures and patient case studies presented on the evaluation and management (surgical and non-surgical) of the orthopedic patient, correlated with laboratory practice in evaluative and treatment skills.

**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 commonly seen in patients treated by physical therapists.

**PHT 3804 Clinical Internship (4)**  
Supervised full-time clinical experience, designed to offer the student experience in patient care, particularly musculoskeletal evaluation, application of basic physical techniques, and orthopedic planning and implementation.

**PHT 4141 Evaluation of the Developing Child (3)**  
A study of the neuromuscular development characteristics of the child; includes evaluation methods; a prerequisite to PHT 4235C, Neurophysiologic Techniques.

**PHT 4233C Neurodevelopmental Techniques (3)**  
A study of the application of various exercise techniques and systems to the treatment of children with neurophysiologic deficits.

**PHT 4234C Neurophysiologic Techniques (3)**  
A study of the application of the exercise techniques of Bobath, Rood, Brunnstrom, and Knott and Voss to the treatment of adults with neurophysiologic deficits.

**PHT 4235C Electrodiagnosis (2)**  
A study of electromyography and low frequency testing techniques for neuromuscular disorders.

**PHT 4300 Physical Therapy and Human Disorders (3)**  
Study of systemic and organ-specific disease and the related medical terminology as they relate to the practice of physical therapy; explores the current literature in selected disease topics.

**PHT 4231 Rehabilitation (3)**  
Explores functional evaluation, goal setting, and treatment planning for severely debilitated patients with medical, cardiac, pulmonary, thermal and spinal-cord-related disabilities. Other health disciplines participate in some presentations.

**PHT 4232C Prosthetics and Orthotics (2)**  
A study of the modern appliances and their appropriate utilization including on-site visits to a prosthetic lab, patient clinics, and patient treatment areas.

**PHT 4313 Neurology (4)**  
Emphasizes evaluation differential diagnosis, goal setting, and treatment planning for patients with neurologic disability. Presented by neurologists and by physical therapists who provide clinical experience in neurologic evaluation.

**PHT 4510 Organization and Administration (4)**  
A study in the management of physical therapy delivery systems and current health trends affecting the profession.

**PHT 4823 Senior Clinical Clerkship (2)**  
Extension of PHT 3804, with emphasis on treatment planning and implementation of prosthetics, orthotics, rehabilitation, electrodiagnosis, and neurology.

**PHT 4826 Senior Clinical Internship (15)**  
Supervised full-time clinical experience, designed to afford the student the opportunity to practice total patient care, as well as administration and supervision in physical therapy.

**PHT 4905 Independent Study (1-6)**  
The student will select a particular aspect of physical therapy or closely related subject for in-depth independent study with a faculty preceptor.

**PHT 4933 Independent Research in Physical Therapy (1)**  
This course will provide physical therapy students with the background of didactic information necessary for them to complete a research project in PHY 4934.

**PHT 4934 Physical Therapy Research Seminar (1)**  
To allow students to collect data, analyze result, and submit findings in accepted written style;

includes oral presentations to an audience of health professionals.

## Professional Certificate Programs

### Department of Home Economics Apparel Manufacturing Management

A Professional Certificate is offered in Apparel Manufacturing Management acknowledging that students have demonstrated 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 twenty credits as listed in the Certificate requirements. These courses may be taken by Non-Degree Seeking Students with the advice of the Certificate Program Director. Students should complete an application form at the time of their first course registration.

It is recommended that the courses be completed in the following order:

CTE 3742L	Commercial Pattern Analysis	(2)
CTE 3743L	Pattern Grading Analysis	(2)
CTE 3762L	Cutting Analysis and Material Utilization	(3)
CTE 3763L	Machine Evaluation and Selection	(3)
CTE 4766L	Apparel Work Measurement	(3)
CTE 4764L	Industrial Apparel Assembly and Quality Control	(3)
CTE 4765	Apparel Production Planning and Costing	(4)

### Department of Industrial Systems

#### 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 certificate is intended to provide skills which will be directly applied in industry.

The Certificate will be awarded to any student who successfully completes a specified 18-credit program, with a grade of "C" or better.

## Industrial and Labor Relations

The objective of the Professional Certificate Program in Industrial and Labor Relations is to produce options to both baccalaureate degree seeking students and pre and post baccalaureate students in the fields of Labor Studies, Industrial Personnel Operations and Collective Bargaining and Labor-Management Relations.

The Certificate will be awarded to any student who successfully completes a specified 18 credit program, with a grade of "C" or better.

## 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 courses designed to give the student knowledge of processes, cost, planning and control in addition to electives in specialized subjects.

The Certificate will be awarded to any student who successfully completes a specified 18 credit program, with a grade of "C" or better.

## Department of Mechanical Engineering Technology

### 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.

The Certificate will be awarded to a student who successfully demonstrates competency in:

ETM 3205	Thermodynamics I	3
BCN 3560	Mechanical Systems in Construction	3
ETM 4720	Principles of Air Conditioning & Refrigeration	3
ETM 4225	Energy Systems	3
ETM 4750	Air Conditioning Design I	3
ETM 4221L	Mechanical Laboratory I	2
ETM 4642	Air Conditioning Design II	3
ETM 4643L	Air Conditioning & Ref'g Laboratory	2
ETI 4671	Engineering Economy	3

## Center for Labor Research and Studies

Director, John Remington

The Center for Labor Research and Studies is authorized by the Board of Regents to provide credit and non-credit academic programs and services throughout the State in the field of labor and manpower studies. See General Information section, "Centers and Institutes" for more information.

### Faculty

Andrew Banks, M.A. (Goddard College),  
Assistant Director and Instructor  
Kim Breslow, M.S. (Florida International University), Visiting Lecturer  
Charlie Hall, B.A. (Florida International University), Coordinator and Instructor  
Tom Humphries, M.A. (Florida International University), Assistant Director and Instructor  
John Remington, Ph.D. (University of Michigan), Director and Associate Professor  
Margaret G. Wilson, Ph.D. (University of Southern California), Research Director and Assistant Professor

## Drinking Water Research Center

Acting Director, William J. Cooper

The Drinking Water Research Center conducts basic and applied studies in the area of water resources as it relates to drinking water quality and quantity. The Center also provides the opportunity for undergraduate and graduate students to conduct independent research in cooperation with other departments in the University. See the General Information section "Centers and Institutes" for more details regarding the Center.

### Staff

William J. Cooper, M.S. (Pennsylvania State University), Associate Research Scholar/Scientist and Acting Director  
Frances Parsons, Ph.D. (University of Miami), Associate Research Scholar/Scientist  
Ramona G. Rice, Ph.D. (University of Arkansas), Assistant Research Scholar/Scientist  
Paul R. Wood, B.S. (University of Notre Dame), Associate Research Scholar/Scientist

## College of Technology

Dean (Acting) Robert C. Fisher  
Associate Dean Katharine R. Curry (Sabbatical)  
Associate Dean LeRoy E. Thompson  
Associate Dean (Acting) Margaret G. Wilson  
Associate Dean (Acting) Reba L. Anderson  
Chairpersons:

Civil and Environmental Engineering LeRoy E. Thompson  
Communication Lillian Kopenhaver (Acting Chairperson)  
Construction Iraj Majzub  
Dietetics and Nutrition Nancy S. Wellman  
Electrical James R. Story  
Engineering Betty Morrow  
Home Economics Donald R. Herzog  
Industrial Systems Emmanuel Nwadike (Acting Chairperson)  
Mechanical Janet L. Zins  
Engineering Medical Technology Reba L. Anderson  
Occupational Therapy Elizabeth O. Cormack  
Physical Therapy (Acting Chairperson)

Program Director: Medical Record Administration Florence C. Amato

Directors: Drinking Water Research Center William J. Cooper (Acting)

Center for Labor Research Studies John A. Remington  
International Association for Housing Science Oktay Ural  
International Institute for Creative Communication Edmund G. Skellings

### Faculty

Alcorta, Sergio J., M.S., P.E., (University of Miami), Associate Professor, Mechanical Engineering  
Amato, Florence C., Ph.D., R.R.A., (St. Louis University), Program Director and Associate Professor, Medical Records Administration  
Anderson, Barbara V., B.S., M.T. (ASCP), S.B.B., (Ohio State University), Assistant Professor, Medical Technology  
Anderson, Reba L., Ph.D., O.T.R./L., (University of Florida), Chairperson and Associate Professor, Occupational Therapy and Acting Associate Dean, College of Technology  
Auricles, Gabriel, Ed.D., (Florida Atlantic University), Associate Professor, Industrial Systems  
Banks, Andrew, M.A., (Goddard College), Instructor, Industrial Systems and Assistant Director, Center for Labor Research and Studies  
Blackburn, Sara A., D.Sc., R.D., (Boston University), Assistant Professor, Dietetics and Nutrition  
Bowker, Alice M., M.A., O.T.R./L., (Northwestern University), Assistant Professor, Occupational Therapy



- Canaves, Jaime, M.A., R.A., (University of Florida), Assistant Professor, Construction
- Cereijo, Manuel R., P.E., (Universidad Central), Associate Professor, Electrical Engineering
- Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania), Professor, Construction
- Clark, Jack L., Ph.D., (Laurence University), Professor, Construction
- Cormack, Elizabeth O., M.A., R.P.T., (University of New Mexico), Assistant Professor and Acting Chairperson, Physical Therapy
- Couch, James E., M.S., (Florida State University), Associate Professor, Communication
- Curry, Katharine R., Ph.D., (Southern Illinois University), Associate Dean and Professor, College of Technology
- deGroot, Sybil, Ph.D., (Ohio State University), Professor, Industrial Systems
- Dudley, Suze, M.S., O.T.R./L., (Florida International University), Assistant Professor, Occupational Therapy
- Dunevitz, Burton J., Ph.D., R.P.T., (Nova University), Associate Professor, Physical Therapy
- Easton, Penelope S., Ph.D., R.D., (Southern Illinois University), Professor, Dietetics and Nutrition
- Elgarresta, Lorenzo J., M.B.A., (Florida International University), Lecturer, Industrial Systems
- Glenn, Alvin B., Ph.D., (Syracuse University), Professor, Electrical Engineering
- Hahs, Jimmy Dean D., D.E., P.E., (University of Oklahoma), Associate Professor, Civil and Environmental Engineering
- Haight, Gary T., M.A., (College of Saint Rose), Assistant Professor, Medical Technology
- Hall, Charles, B.A. (Florida International University), Instructor, Industrial Systems and Coordinator, Center for Labor Research Studies
- Haskins, Awilda R., M.S. (State University of New York at Buffalo), Assistant Professor, Physical Therapy
- Herzog, Donald R., Ph.D., (University of Iowa), Chairperson and Professor, Industrial Systems
- Heling, Susan R., M.H.S., O.T.R./L., (University of Florida), Assistant Professor, Occupational Therapy
- Himbürg, 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), Lecturer, Home Economics
- Humphries, Thomas G., M.S., (Florida International University), Instructor, Industrial Systems and Assistant Director, Center for Labor Research and Studies
- Johnson, Ralph B., M. Arch. (Yale University), Assistant Professor, Construction
- Katz, Eric S., M.S., (Florida State University), Assistant Professor, Communication
- Khan, Abdur Rasheed, Ph.D., R.D., (Kansas State University), Associate Professor, Dietetics and Nutrition
- Kopenhaver, Lillian L., Ed.D., (Nova University), Acting Chairperson and Assistant Professor, Communication
- Kuo, Rong-Heng, Ph.D., (New Mexico State University), Assistant Professor, Civil and Environmental Engineering
- Leonard, Rene J., D.A., P.E., (University of Miami), Associate Professor, Mechanical Engineering
- Lleveda, Evodio, Ph.D., (University of Miami), Assistant Professor, Industrial Systems
- LeRoy, David J., Ph.D., (University of Wisconsin), Professor, Communication
- Martinson, David L., Ph.D., (University of Minnesota), Associate Professor, Communication
- Majzub, Iraj E., D. Arch., R.A., (University of Torino), Chairperson and Professor, Construction
- Merkel, Robert S., Ph.D., (Institute of Textile Technology), Assistant Professor, Home Economics
- Morrow, Betty, Ph.D. (University of Miami), Chairperson and Associate Professor, Home Economics
- Nwadike, Emmanuel, Ph.D., (University of Miami), Acting Chairperson and Associate Professor, Mechanical Engineering
- Otazo, Julio O., M.A. Arch., R.A., (University of Florida), Assistant Professor, Construction
- Prieto-Portar, Luis A., Ph.D., (Princeton University), Associate Professor, Civil and Environmental Engineering
- Pursell, Juanita S., B.S., (Florida International University), Assistant Professor, Medical Record Administration
- Radin, Ian, Ph.D., (University of Missouri), Associate Professor, Mechanical Engineering
- Remington, John, Ph.D., (University of Michigan), Associate Professor, Industrial Systems and Director, Center for Labor Research Studies
- Skellings, Edmund G., Ph.D., (University of Iowa), Director and Professor, International Institute for Creative Communications
- Smith, Adele, M.S., (Auburn University), Assistant Professor, Home Economics
- Smith, Sylvia L., M.S., S.M., (AAM), (ASCP), (University of Miami), Associate Professor, Medical Technology
- Starling, Shirley, M.H.S., O.T.R./L., (University of Florida), Assistant Professor, Occupational Therapy
- Staton, Pamela F., M.S., (West Virginia), Assistant Professor, Medical Technology
- Storm, Penelope S., Ph.D., (University of Maryland), Associate Professor, Home Economics
- Story, James R., Ph.D., P.E., (University of Alabama), Chairperson and Associate Professor, Electrical Engineering
- Subbarao, Wunnava V., Ph.D., P.E., (Andhra University), Associate Professor, Electrical Engineering
- Surti, Vasant H., Ph.D., (Catholic University of America), Professor, Civil and Environmental Engineering
- Thompson, LeRoy E., Ph.D., P.E., (Rice University), Associate Dean of Engineering, Chairperson and Professor, Civil and Environmental Engineering
- Ural, Oktay, Ph.D., P.E., (North Carolina State University), Director, International Association for Housing Science and Professor, Construction
- Villate, Jose T., Ph.D., P.E., (University of Wisconsin), Professor, Civil and Environmental Engineering
- Wellman, Nancy S., M.S., R.D., (Columbia University), Chairperson and Associate Professor, Dietetics and Nutrition
- Wilson, Margaret G., Ph.D., (University of Southern California), Acting Associate Dean, College of Technology; Assistant Professor, Industrial Systems and Program Director, Center for Labor Research and Studies
- Yuceoglu, Umur, Ph.D. (Lehigh University), Associate Professor, Mechanical Engineering
- Zins, Janet L., Ph.D., M.T., (ASCP), (University of Miami), Chairperson and Associate Professor, Medical Technology

## Research Faculty

- Cooper, William J., M.S., (Pennsylvania State University), Acting Director and Associate Research Scholar/Scientist
- Parsons, Frances, Ph.D., (University of Miami), Associate Research Scholar/Scientist
- Rice, Romana G., Ph.D., (University of Arkansas), Assistant Research Scholar/Scientist
- Wood, Paul R., B.S., (University of Notre Dame), Associate Research Scholar/Scientist

## Visiting Faculty

- Civil Engineering
- Verdat Yerlici, Associate Professor
- Communication
- Warren Bush, Associate Professor
- Mel Kiser, Assistant Professor
- John Sugg, Assistant Professor
- Construction
- Hilmy Adeb, Associate Professor
- William Bassett, Lecturer
- John Sacco, Associate Professor
- Verdat Yerlici, Associate
- Dietetics and Nutrition
- Shan Biesman-Simons, Instructor
- Sister Benita Bourne, Assistant Professor

Sharon Wallace, Assistant Professor

*Home Economics*

Judy Grossbard, Assistant Professor

Wayne Kolbeck, Assistant Professor

*Physical Therapy*

Debra Stern, Assistant Professor

*Center for Labor Research and Studies*

Kim Breslow, Lecturer



# Military Programs

## Aerospace Studies

Florida International University, in cooperation with the Department of Aerospace Studies, Air Force Reserve Officer's Training Corps (AF-ROTC), at the University of Miami, provides an opportunity for selected students to prepare for Air Force commissions while completing degree requirements. Two programs are offered:

1. The Four-Year AFROTC program is comprised of a two-year basic course in Air Force organization and the development of air power, and a two-year advanced course directed toward developing managerial skills and attitudes necessary for appointment as an Air Force officer.

2. The Two-Year AFROTC program (the last two years of the Four-Year program) is available for students in their last four semesters of college following successful completion of a six-week summer Field Training course at selected Air Force bases.

In order to complete either program, all Air Force ROTC cadets must complete specified minimum requirements in English composition and mathematical reasoning.

Air Force ROTC scholarships for 2, 2½, 3 and 3½ years are available to qualified cadets on a competitive basis. The engineering curriculum, coupled with the Air Force ROTC program, requires a minimum of five years to complete degree requirements. Air Force ROTC Cadets must take 16 additional hours in Aerospace studies, along with an Air Force sponsored Summer Training Camp between their sophomore and junior years in college. This allows qualified engineering students to receive four year scholarships (maximum allowed by current legislation) even though already enrolled in college. All scholarship students must obtain at least 3 hours of college level credit in an Indo-European language (unless waived) in addition to the English and math requirements listed above. Scholarships cover tuition, fees, books, and \$100 per month.

Cadets earn two credits for each basic year and six credits for each advanced year. Entry into the basic course entails no military obligation; entry into the advanced course usually leads to extended active duty as an Air Force officer. Call to active duty after graduation may be delayed for selected cadets who plan to attend graduate school.

Cadets are provided with uniforms and textbooks; the cadet corps collects a small activity fee each semester from each cadet to cover corps activities.

Selection for the advanced course is highly competitive. Cadets must be citizens of the highest personal and physical qualifications, chosen for their proven ability to lead.

Applicants who are veterans or who have completed Junior ROTC, may be considered for waiver of the basic course.

Advanced course cadets are paid \$100 per month for 20 months. Basic cadets attend one hour of class each week. Advanced cadets attend

three hours of class each week, and all cadets are involved in one hour of leadership laboratory each week. All classes are conducted on the University of Miami campus.

AFROTC cadets may participate in orientation flights in military aircraft. Juniors or seniors selected for pilot training receive 13 hours of flight instruction at a local FAA approved flight school. For more information, call 284-2870.

## Course Descriptions

### Air Force ROTC

**AFR 1101C First Semester Basic (1)**  
Study of the doctrine, mission and organization of the United States Air Force; U.S. strategic offensive and defensive forces; their mission, function and employment of nuclear weapons.

**AFR 1111C Second Semester Basic (1)**  
U.S. general purpose and aerospace support forces; the mission, resources, and operation of tactical air forces, with special attention to limited warfare; review of Army, Navy, and Marine general purpose forces.

**AFR 2130C Third Semester Basic (1)**  
Changing nature of military conflict; factors leading to the development of air power; concepts and doctrine governing the employment of air power.

**AFR 2131C Fourth Semester Basic (1)**  
How technology has affected the growth and development of air power; the changing mission of the defense establishment, emphasizing the Air Force; how air power has been employed in military operations.

**AFR 3220C Air Force Leadership (3)**  
Air Force leadership in theory and practice; written and oral communications in the Air Force.

**AFR 3230C Air Force Management (3)**  
Air Force management in theory and practice; management tools, principles, problem-solving; written and oral communications in the Air Force.

**AFR 4201C The Military Profession and Society (3)**  
National security forces in contemporary American society.

**AFR 4210C Formulation and Implementation of U.S. Defense Policy (3)**  
Political, economic and social constraints on the formulation of U.S. defense policy. Technological and international impact upon the overall defense policymaking process. The military justice system.

**AFR 4240 Flight Instruction Ground School (2)**  
Fundamentals of flight; rules and regulations governing safe operation of civil aircraft.

## Army ROTC Program

The Army Reserve Officers' Training Corps at Florida International University offers a four-year and a two-year Office Training Program leading to a commission as a Second Lieutenant in either the United States Army Reserve or the

Regular Army. Depending on the student's academic major his/her desires and the needs of the Army, this commission may be in any one of the Army's branches.

All textbooks, uniforms and equipment are furnished. The only cost is a student activity fee of \$5.00 per semester. During the two years of the Advanced Course, the student is paid \$100.00 per month for up to ten months during each academic year by the U.S. Government. In addition, one-, two-, and three-year scholarships may be awarded to exceptional students. (For further information contact the Military Science Department.)

The course of instruction emphasizes theoretical and practical leadership. It is divided into Basic (MS I and MS II) and Advanced (MS III and MS IV) Courses. Admission to the Basic Course is open to full-time students who will complete the four-year program prior to their 30th birthday and who are physically qualified. Admission to the Advanced Course is competitive. The Professor of Military Science must approve all applicants. In addition, all advanced students must pass mental and physical examinations and have received credit for the Basic Course. A student who wishes to continue with post-graduate work may be deferred from call to active duty for up to four years after commissioning.

Credit for the Basic Course may be given for prior military service or for participation in three years of Junior ROTC during high school. Credit for the entire Basic Course may be received by attending a six-week Summer Camp at Fort Knox, Kentucky under the Two-Year ROTC Program. Students participating in this camp are paid approximately \$540.00 plus travel costs, lodging and food.

Additionally, the Army ROTC offers voluntary "activity modules" to all students. These modules allow the student to receive Military Core Credit Hours (MCCH) for his/her participation. The modules offered are:

### BUSHMASTER/RAIDER

Teaches small unit Ranger/Special Forces tactics, techniques, rappelling, survival, field crafts and leadership.

### EXPERT FIELD CADET

Teaches basic military skills and leadership. In addition to the above, students can receive Military Supplemental Credit Hours (MSCH) for participation in:

### RIFLE MARKSMANSHIP

Training and firing of the .22 caliber rifle. All students fire and are eligible to compete in intercollegiate rifle matches.

### WARGAMING

Teaches the evolution of warfare, strategy, tactics and logistics through the use of wargames such as Blitzkrieg and Squad Leader, as well as through the use of military miniatures and other RPG's.

### CLASS HOURS REQUIRED:

First- and second-year students attend one hour of class per week.

Third- and fourth-year students attend three hours per week. In addition, the advanced student attends one six-week Advanced Summer Camp between his/her junior and senior years. He/she will receive approximately \$800.00 plus

food, lodging and travel costs reimbursement for participation in this summer training.

For any additional information concerning the Army ROTC Program, contact the Professor of Military Science at (305) 284-4673.

## Course Descriptions

### ARMY ROTC

#### MIS 1002 First Year Basic (1)

An orientation of the ROTC program and its objectives; the role and organization of the Army; the fundamentals of leadership and management; leadership development.

#### MIS 1300 First Year Basic (1)

Basic operations and tactics of Infantry and Mechanized Infantry as small unit level; military principles of war.

#### MIS 2106 Second Year Basic (1)

MIS 2106L Second Year Basic Laboratory (0)  
Basic military skills in radio communication procedures; US and opposing forces Armor and Anti-Armor capabilities; security and intelligence reporting; nuclear, biological, and chemical battlefield; US Artillery weapons; and basic first aid. Required Laboratory, Field Training, and/or Activity Module participation.

#### MIS 2333 Second Year Basic (1)

MIS 2333L Second Year Basic Laboratory (0)  
Map reading skills, determining distance, direction, and location; analysis of terrain; and indirect fires. Required Laboratory, Field Training, and/or Activity Module.

#### MIS 3423 Advanced Military Science III (3)

MIS 3423L Advanced Military Science III Laboratory (0)  
Management and leadership. Case studies in fact finding, decision making, planning, delegation, and interpersonal skills. Motivation training with emphasis on crisis-oriented organizations. Required Laboratory. Prerequisite: Permission of the PMS.

#### MIS 3310 Advanced Military Science III (3)

MIS 3310L Advanced Military Science III Laboratory (0)  
Advanced leadership and troop command procedures. Small unit tactics and communications. Map and compass skill. Patrolling, tactical operations. Required Leadership Laboratory. Prerequisite: Permission of the PMS.

#### MIS 4120 Advanced Military Science IV (3)

Ethics and professionalism responsibilities of the military officer. The military law and justice system. The laws of war. Prerequisite: Permission of the PMS.

#### MIS 4410 Advanced Military Science IV (3)

The applied leadership techniques in counseling subordinates; written and oral communications; the command, staff, personnel, logistics, and training management systems; the role of NCO's.

## 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 freshman, sophomores and Juniors who attend pre-commissioning training during the summer. Financial assistance and Flight Indoctrination Programs are available. Qualified seniors and 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.



# FLORIDA INTERNATIONAL UNIVERSITY TAMiami CAMPUS

Tamiami Trail S.W. 8th Street

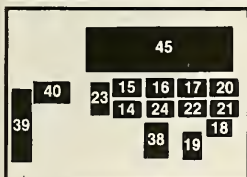
East to Palmetto Expressway →

(See detail)

Turnpike

S.W. 117 Avenue

S.W. 107 Avenue

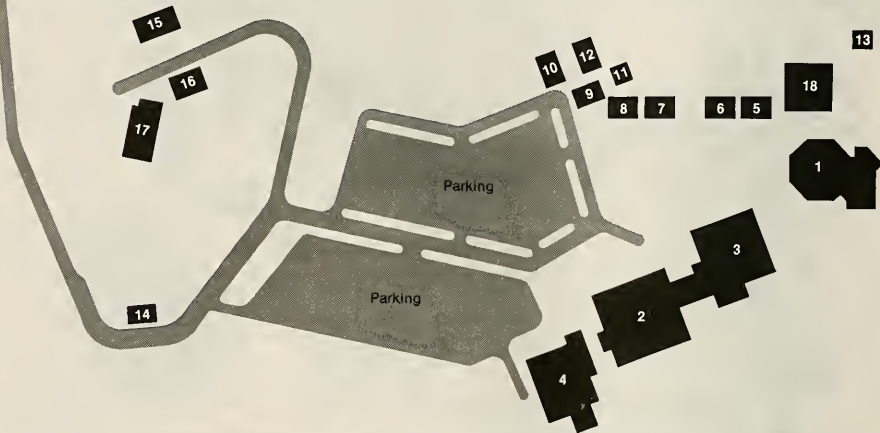


- |                           |          |                    |                      |
|---------------------------|----------|--------------------|----------------------|
| 1. Primera Casa (PC)      | 14. MO1  | 27. WO2            | 40. W10A             |
| 2. Campus Support         | 15. MO2  | 28. WO3            | 41. Baseball Field   |
| 3. Deuxieme Maison (DM)   | 16. MO3  | 29. WO4            | 42. Handball Courts  |
| 4. University House (UH)  | 17. MO4  | 30. WO4A           | 43. Recreation Booth |
| 5. Viertes Haus (VH)      | 18. MO5  | 31. WO5            | 44. Soccer           |
| 6. Central Utilities (CU) | 19. MO6  | 32. WO5A           | 45. Tennis Courts    |
| 7. Athenæum (AT)          | 20. MO7  | 33. WO6            |                      |
| 8. Owa Ehan (OE)          | 21. MO8  | 34. Softball Field |                      |
| 9. Tower                  | 22. MO9  | 35. WO7            |                      |
| 10. Information Booth     | 23. M10  | 36. WO8A           |                      |
| 11. Duplicating Center    | 24. M11N | 37. WO8B           |                      |
| 12. EO1                   | 25. WO1  | 38. WO9            |                      |
| 13. EO2                   | 26. WO1A | 39. W10            |                      |

# FLORIDA INTERNATIONAL UNIVERSITY BAY VISTA CAMPUS

↑ To Biscayne Blvd. and N.E. 151 St.  
Access to I-95 via N.E. 135 St. and N.E. 163 St.

Dorms under construction



- 1. Trade Center (TC)
- 2. Academic One (AC I)
- 3. Student Center (SC)
- 4. Academic Two (AC II)

- 5. Trailer 1
- 6. Trailer 3
- 7. Trailer 6
- 8. Trailer 8

- 9. Trailer 21
- 10. Trailer 23
- 11. Campus Support 1
- 12. Campus Support 2

- 13. Campus Support 3
- 14. Information Booth
- 15. Central Receiving
- 16. Public Safety

- 17. Physical Plant
- 18. Tennis Courts



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## SUMMER SEMESTER 1984

February 1	Last day for receipt of International Students' Admission Application for Summer terms.
March 26-30	Official Registration Week (Degree-Seeking Students), by appointment only, for Complete Summer Term, Summer Term A, and Summer Term B.
March 28	Last day for receipt of Admission Application, including all appropriate credentials for Summer Terms.
April 9-20	Open Registration for Complete Summer Term, Summer Term A, and Summer Term B.
June 1	Last day to apply for Complete Summer Term, Summer Term A, and Summer Term B graduation**.

### Complete Summer Term

May 7	Registration Day.
May 9	Classes Begin.
May 18	Last day to complete late registration by 3:00 p.m. <ul style="list-style-type: none"><li>• Drop/Add Period ends.</li><li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li><li>• Last day to pay tuition and fees without incurring a late fee.</li><li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li></ul>
May 28	Memorial Day Holiday (University closed).
June 1	Last day to apply for Summer Term graduation. <ul style="list-style-type: none"><li>• Last day to complete withdrawal with a 25% refund of tuition less bonding fees.</li></ul>
July 4	Independence Day Holiday (University closed).
July 6	<ul style="list-style-type: none"><li>• Last day to drop a course with a DR grade by 3:00 p.m.</li><li>• Last day to withdraw from the University with a W1 grade.</li><li>• Last day for reinstatement of cancelled courses due to non-payment.</li></ul>
August 10	Classes end.

### Summer Term A

May 7	Registration Day.
May 9	Classes Begin.
May 18	Last day to complete late registration by 3:00 p.m. <ul style="list-style-type: none"><li>• Drop/Add Period ends.</li><li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li><li>• Last day to pay tuition and fees without incurring a late fee.</li><li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li></ul>
May 28	Memorial Day Holiday (University closed).
June 1	Last day to apply for Summer Term graduation. <ul style="list-style-type: none"><li>• Last day to drop a course with a DR grade by 3:00 p.m.</li><li>• Last day to withdraw from the University with a W1 grade.</li><li>• Last day for reinstatement of cancelled courses due to non-payment.</li><li>• Last day to complete withdrawal with a 25% refund of tuition less bonding fees.</li></ul>
June 22	Classes End**.

### Summer Term B

June 1	Last day to apply for Summer Term graduation.
June 25	Registration Day.
June 27	Classes Begin.
July 4	Independence Day Holiday (University closed).
July 6	Last day to complete Late Registration by 3:00 p.m. <ul style="list-style-type: none"><li>• Drop/Add Period ends.</li><li>• Last day to drop courses or withdraw from the University without incurring a financial liability.</li><li>• Last day to pay tuition and fees without incurring a late fee.</li><li>• Last day to pay tuition and fees to avoid cancellation of enrollment.</li></ul>
July 20	Last day to drop a course with a DR grade by 3:00 p.m. <ul style="list-style-type: none"><li>• Last day to withdraw from the University With a W1 Grade.</li><li>• Last Day for reinstatement of cancelled courses due to non-payment.</li><li>• Last day to complete withdrawal with a 25% refund of tuition fees less bonding fees.</li></ul>
August 10	Classes End.

\*Calendar dates are subject to changes. Appropriate offices should be contacted for verification and updated information.

\*\*Grades will not be posted on transcripts and graduation will not be processed until the end of the Complete Summer Term, August 10.

Florida International University  
Tamiami Campus  
Miami, Florida 33199

Bay Vista Campus  
North Miami, Florida 33181