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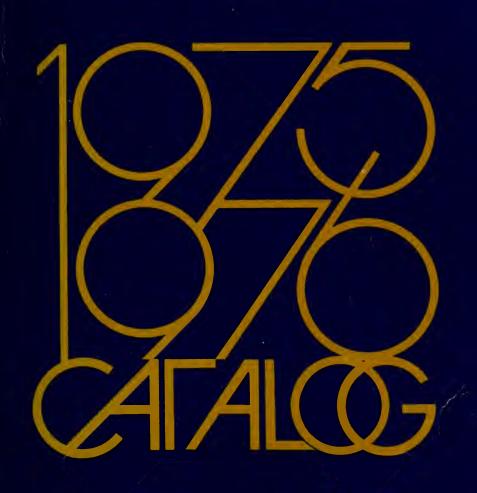
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FLORIDA INFERNATIONAL UNIVERSITY



THE STATE
UNIVERSITY SYSTEM
OF FLORIDA

ACADEMIC CALENDAR, 1975-76

June 6Last Day for Receipt of Applications for Regular Admission to Summer Quarter June 20Change Day (Late Registration and Class Schedule Adjustments)	
Line 20 Change Day II at a Project ration and Class School of Adjustment A	
2010 20 Change Day (Late Registration) and Class Schedule Adjustments	1
June 23Classes Begin	
June 30Last Day to Complete Late Registration	
Last Day of Official Drop and Add Period	
Last Day to Drop Courses or Withdraw From University Without	In-
curring a Financial Liability.	
July 4Independence Holiday (University Closed)	
July 7Last Day to Pay Fees Without a \$25.00 Late Fee	
July 11Last Day to Apply for Summer Quarter Graduation	
July 18Last Day to Drop a Course Without a Grade	
July 21Last Day to Pay Fees to Avoid Cancellation of Enrollment	
August 8Last Day to Reinstate Cancelled Enrollments (\$25.00 reinstatement fee)	
August 28Classes End	
September 2 All Grades Due in Registration Office by 12:00 Noon	
FALL QUARTER, 1975	
August 22Last Day for Receipt of Applications for Regular Admission to Fa	11
Quarter	
September 1Labor Day Holiday (University Closed)	
September 19Change Day (Late Registration and Class Schedule Adjustments)	
September 22Classes Begin	
September 29Last Day to Complete Late Registration	
Last Day of Official Drop and Add Period	
Last Day to Drop Courses or Withdraw From University Without I	n-
curring a Financial Liability.	
October 6Last Day to Pay Fees Without a \$25.00 Late Fee	
October 10Last Day to Apply for Fall Quarter Graduation October 17Last Day to Drop a Course Without a Grade	
October 20Last Day to Drop a Course Without a Grade October 20Last Day to Pay Fees to Avoid Cancellation of Enrollment	
November 7	
November 7Last Day to Reinstate Cancelled Enrollments (\$25.00 reinstatement fee)	
November 7Last Day to Reinstate Cancelled Enrollments (\$25.00 reinstatement fee) November 11Veteran's Day Holiday (University Closed)	
November 7Last Day to Reinstate Cancelled Enrollments (\$25.00 reinstatement fee) November 11Veteran's Day Holiday (University Closed) November 27-28Thanksgiving Holidays (University Closed)	
November 7	

(Continued on inside back cover)

MAT2048 MASY

FLORIDA INFERNATIONAL UNIVERSITY

1975~76 CAFALOS

THE STATE UNIVERSITY

SYSTEM

OF FLORIDA



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GENERAL INFORMATION

GOALS

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

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

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

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

HISTORY

Florida International University was established by the Florida State Legislature on June 22, 1965. On July 11, 1969, the Florida Board of Regents appointed the first president, Charles E. Perry. On September 19, 1972, classes apened with an initial enrollment of 5,667 undergraduate and graduate students. The enrollment grew to over 10,000 students in 1974-75.

Early in 1973, the Interama Authority deeded a tract of land on the Interama site to the Board of Regents for a second campus of Florida International University. Additional land was provided in 1974.

CAMPUSES

The University currently has one major campus location (Tamiami Campus) with a planned second campus (Interama Campus) to open with limited programs in 1976.

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

As student needs develop and resources become available, academic pragrams will be offered on one or both campuses. Students will be able to complete all degree requirements on the campus of their academic major program.

Tamiami Campus

The academic programs and related services described in the later sections of this catalog pertain to the Tamiami Campus.

Interama Campus

The Interama Campus is currently in the advanced planning stage. Since initial operating and capital budgets for the campus will not support all the academic programs currently authorized for the University, the initial offerings will serve fields of study in higher demand program areas for which large investments in physical and human capital are not required. As resources become available, additional academic programs and the needed facilities will be added.

BUILDING PROGRAM

Tamiami Campus

The Tamiami Campus is located on a 344 acre site in west central Dade County. Since 1970, six major buildings have been constructed at a cost of \$38 million. The campus building plan includes several other structures to accommodate growth needs until 1980.

The campus plan is designed as an interactive complex of facilities connected by internal courts for pedestrian access. The camplex is surrounded by a natural buffer of lakes and green areas to provide passive areas for study and relaxation.

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

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

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

Viertes Haus, a three-story structure opened early in 1975, houses technology and fine arts laboratories, the Experimental Theatre, and media production facilities. The Central Utility Plant, which serves the entire campus, was constructed adjacent to Viertes Haus and opened at the same time.

Athenaeum, which houses the Library and the Film Library of the Media Center, is scheduled to open in the Fall of 1975. This structure also includes a divisible auditorium seating 540 persons for lectures or performances.

Interama Campus

The Interama Campus, located in North Dade County on Biscayne Bay, will begin its academic program in the former Trade and Exhibition Center building constructed for the Interama Center Authority. The building will be remodeled by the University for instructional use. Additional buildings will be completed as construction funds become available. Like the Tamiami Campus, the Interama Campus is being designed to accommodate an enrollment of 15,000 students.

ACADEMIC AFFAIRS

Florida International University offers a variety of academic programs and courses at the Bachelors and Masters degree levels, all designed to respond to the changing needs of the growing metropolitan area of Dade County and South Florida. Upper level Bachelors programs and courses are offered in the College of Arts and Sciences and the five professional schools — Business and Organizational Sciences, Education, Health and Social Sciences, Hotel, Food and Travel Services, and Technology. Graduate study at the Masters level is available in the Schools of Business and Organizational Sciences, Education, Health and Social Services, and Hotel, Food, and Travel Services.

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

ACCREDITATION AND MEMBERSHIPS

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

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

The University is also an affiliate member of the Association of Upper Level College and Universities, the American Association of State Colleges and Universities, the Florida Association of Colleges and Universities, the Association of Caribbean Universities and Research Institutes, the American Association of Community and Junior Colleges, the Union of Experimenting Colleges and Universities, and numerous other educational and professional associations.

ACADEMIC PROGRAMS

ACADEMIC MAJORS LEADING TO THE BACHELORS DEGREE

College of Arts and Sciences

*Art

*Biological Sciences

*Chemistry

Computer Science

Earth Science **Economics**

*Fnalish

Environmental Studies

Fine Arts

*History

Humanities

International Relations

Liberal Studies

*Mothematics

Modern Languages

*French

*German

*Portuguese *Spanish

Music

Philosophy/Religion

Physics

Political Science

Psychology

Sociology/Anthropology

Statistics

Theatre

^{*}NOTE: These areas also provide course sequences for students desiring teacher certification.

School of Business and Organizational Sciences

Accounting

Finance

Insurance and Risk Management
International Management

Monagement

Monagement Infarmation Systems

Marketing

Persannel Management

Public Administration

Real Estate Transpartation

Urban Affairs

School of Education

*Art (1-12)

*Bialogical Sciences

Early Childhood Education Elementary Education

*English

Health Education

*History

""Hame Econamics

Industrial Arts

* Mathematics

Madern Longuages:

*German

*Portuguese

*Spanish

*Music (1-12)

Physical Education (1-12)

*Physical Sciences

Parks and Recreation Management

*Social Studies

Behaviaral Disarders

Intellectual Differences

Specific Learning Disabilities Technical Education

Vacational Industrial Education

•

*NOTE: The student in these areas of specialization take his ar her subject matter preparation in the Callege af Arts and Sciences and the prafessianal preparation in the School of Education. The degree may

be taken in either the Callege af Arts and Sciences or the School af Education.

**NOTE: Interdisciplinary program offered by the Schaals of Education, Technology and Health and Social

School of Health and Social Services

Criminal Justice

Dietetics and Nutritian

Health Science

Hame Economics

Medical Technology

Nursing

Occupational Therapy

Physical Therapy

Sacial Wark

School of Hotel, Food and Travel Services

General Haspitality Management

International Hotel Management

Restaurant and Faad Service Management

Tourism and Travel Management Condominium/Coaperative and Apartment Management

School of Technology

Architectural Technology

Civil Engineering Technology

Canstruction Engineering

Technology

Electranic Engineering Technology

Environmental Engineering

Technalagy

Interior Design

Mechanical Engineering

Technalagy

Urban Systems Engineering

Technalagy

Divisianal Majars:

Canstructian

Engineering Technology

Environmental and Urban

Systems

Industrial Technology

Department of the External Degree Program

All majors offered by the Callege of Arts and Sciences, the School of Business and Organizational Services, the School of Hotel, Food and Travel Services, and the School of Technology, are offered through the School of Independent Studies.

Division of Continuing Education and Special Programs

A student can earn credit toward the *Bachelors* degree in courses and programs offered through the Department of Off-Campus Credit Programs.

ACADEMIC MAJORS LEADING TO THE MASTERS DEGREE

School of Business and Organizational Sciences

Business Administration

Management: concentrations in

Accounting

Public Administration

Real Estate

Health Care Monagement

School of Education*

Curriculum and Instruction:

concentrations in

Early Childhood Education

Elementary Education

Reading

Art

Science Education

English

Adult Education, General

Health Education

Industrial Arts

Mathematics

Music

Physical Education

Social Studies

Technical Education

Vocational Industrial Education

Psycho-Educational Services:

concentrations in

Behavioral Disorders

Intellectual Differences

Specific Learning Disabilities Counselor Education

Counselor Laucana

School Psychology

School of Hotel, Food and Travel Services

Hotel and Food Service Management

School of Health and Social Services

Dietetics and Nutrition

ACADEMIC DEGREES

College of Arts and Sciences

Bachelar of Arts

Bochelor of Fine Arts

Bachelor of Science

School of Business and

Organizational Sciences

Bochelor of Business Administration

Master of Business Administration

Master of Science in Management

School of Education

Bachelor of Science

Moster of Science

School of Health and Social Services

Bachelor of Science

Moster of Science in Dietetics

Administration and Supervision: concentrations in

Concentrations in

Elementary School Administration Secondary School Administration

Administration of Adult Education

Administration of Vocational

Education

Educational Administration, General

Elementary School Supervision

Secondary School Supervision

Supervision, General

Elementary School Administration

and Supervision

Secondary School Administration and Supervision

and Supervision

Educational Administration and Supervision, General

^{*}Programs meet Rank II certification requirements

School of Hotel, Food, and

Travel Services

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

School of Technology

Bachelor of Science Bachelor of Technology

School of Independent Studies

Bochelor of Arts
Bachelor of Fine Arts
Bochelor of Science
Bachelor of Business Administration
Bachelor of Social Work
Bachelor of Technology

ADMISSION

Undergraduate Programs

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

A student who has completed an Associate of Science degree, or has earned 90 quarter hours (60 semester hours), at a Florida public community college, and who has completed at least 40 quarter hours of the 54 quarter hours of general education requirements (or the equivalent) as listed in the Catalog, is eligible for admission to the degree program of his or her choice.

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

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

An undergraduate student, who has been denied admission to a program of the University for academic reasons, may appeal the decision through the following steps: the Chairperson of the program, the Dean of the College or School of the program, the Vice President for Academic Affairs. An undergraduate student, who has been denied admission to the University for other-than-academic reasons, may appeal to the Dean of Student Services.

Graduate Programs

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

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

A "B" or better average in all work attempted while registered as an upper division student for the Bachelors degree, OR a total score (quantitative plus verbal) of 1,000 or higher on the Graduate Record Examination or an equivolent score on some other measure specified by the University.

An applicant who does not have a "B" average on his or her upper level work is required to present a score of 1,000 on the *Graduate Record Examination* (School of Education, School of Health and Social Services, and the School of Hotel, Food and Travel Services) or 450 on the *Admission Test for Graduate Study in Business* (School of Business and Organizational Sciences). All graduate applicants to the School of Business and Organizational Sciences — regardless of previous grade-point average — are required to submit the appropriate aptitude test scores. If apply-

ing to the Public Administration or the Health Care Management programs in the School of Business and Organizational Sciences, the appropriate test is the Graduate Record Examination (GRE) rather than the ATGSB.

NOTE: Grades eorned at institutions with non-traditional grading systems will be given every consideration at Florida International University. Applicants will be treated equally with students from institutions with traditional grading systems.

It is possible for an applicant who fails to meet these criteria, but who shows "unusual promise for success" in a graduate program to be admitted on a PROVISIONAL BASIS.

ADMISSION PROCEDURES

Undergraduate and graduate degree-seeking students may obtain an application for admission, catalog and other admission material from the Director of Admissions and Community College Relations, Florida International University, Tamiami Trail, Miami, Florida 33199.

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

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

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

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

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

REGISTRATION

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

LATE REGISTRATION FEE

Approximately five weeks after each quarter begins, the official registration period for the *next* quarter begins. During the two week registration period, all currently-enrolled, degree-seeking students are expected to register. Those who fail to register then, and who subsequently request to register on Change Day or thereafter will be assessed a \$25 late fee.

Although new and non-degree students are encouraged to register during the official two-week registration period, they are not required to register until Change Day. Those who fail to register will be assessed a \$25 late fee.

VETERAN'S REGISTRATION

The Office of Registration and Records will assist a student eligible for veteran's benefits during his or her enrollment at the University. Any student in doubt concerning his or her eligibility should contact the office to avoid any loss of veteran's eligibility and benefits. The veteran who desires personal counseling or tutoring should contact the Director of Veterans Program in the Division of Student Services.

SPECIAL STUDENT (NON-DEGREE SEEKING) REGISTRATION

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

- He or she is not required to meet the usual admission requirements. Such a student is not
 officially admitted as a regular student and in no way implies future admission as regular,
 degree-seeking student;
- · He or she must complete a non-degree registration form each quarter;
- Registration is on a space-available basis and is determined at the time of registration, on Change Day, or during Late Registration.
- Credit earned will not be counted toward a degree at Florida International unless the student subsequently applies for regular admission and is accepted as an undergraduate or graduate student.
- No more than the following quarter hours earned as a special student may be counted toward a degree:

The appropriate Dean must approve the acceptance of credit earned as a special student;

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

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

ACADEMIC REGULATIONS

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

GENERAL REGULATIONS

DEGREE REQUIREMENTS

Florida International University will confer the Bachelors Degree when the following conditions have been met:

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

Recommendation of the Faculty of the College or School awarding the degree.

Successful completion of a minimum of 180 credit hours.

Completion of the last 45 credit hours at Florida International University.

Florida International University will confer the Masters Degree when the following conditions have been met:

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

Recommendation of the faculty of the College/School awarding the degree.

Successful completion of 90 quarter hours for degrees requiring two years of work and 45 quarter hours for those requiring one year of work.

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

GENERAL EDUCATION REQUIREMENTS

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

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

NOTE: the general education requirements are presently under review. An applicant should check with his or her faculty advisor or the Admissions Office at the time of application.

CLASSIFICATION OF STUDENTS AND COURSE LOADS

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

Junior: Through 134 quarter hours credit.

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

Past-Baccalaureate: Any student enrolled in graduate-level courses who has earned a Bachelors degree but is not admitted to a graduate program.

Graduate: Any student admitted to a graduate program.

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

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

	Undergraduate	Graduate
	Quarter Hours	Quarter Hours
Credit-Hour Loads	10*	10*
Selective Service	12	
Veterans Benefits (full allowance)	12	9
Veterans Benefits (3/4 ollowance)	9	7
Veterans Benefits (1/2 allowance)	6	5
Foreign Students (F-1 Visa)	15	10

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

CLASS ATTENDANCE

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

STUDENT RECORDS

Legislative Act authorizes the Florida Board of Regents, through the State Board of Education, to prescribe the data to be included in student records maintained by a University, and to limit access to such records to the student, his parents or guardians, and members of the professional staff of the University who have need for such information. The President, through designated staff, is authorized to release information from a student's record when required in the discharge of his official responsibilities, when authorized in writing by the student, or when ordered by a court of competent jurisdiction.

PROGRAM AND COURSE REGULATIONS

COURSE SELECTION

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

Major — An integral part of the Bachelors and Masters degree is a major concentration of course work in an approved academic discipline or area. The major areas of study are listed on pages 5-7 of the Catalog. The exact course and credit requirements and prerequisites for each major are outlined in the departmental or 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 Bachelors or Masters 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 Bachelors degree, but is not interdisciplinary in nature.

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

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

Professional Certificate — awarded to a student upon completion of an approved area of concentration. This certificate need not be interdisciplinary in nature nor associated with the Bachelors degree.

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

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

Two Degrees — Two Bachelors degrees may be awarded simultaneously when the following conditions have been met:

- Requirements for two majors have been completed as certified by the appropriate academic units.
- A minimum of 45 appropriate, quarter 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 toward a second Bachelors degree must meet the requirements of the major department which shall include (but is not limited to) a minimum of 45 quarter hours of course work.

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

TRANSFER CREDIT

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

LIMITATIONS ON TRANSFER CREDIT

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

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

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

Credit from military schools will be considered for transfer in accordance with the recommendations of the Turner's Guide 1968 of the American Council on Education.

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

ACCELERATION

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

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College Level Examination Program is designed to measure knowledge in certain subject matter areas of General Education. There are two types of CLEP tests: the General Examination and the Subject Examination.

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

Not more than six semester (or nine quarter) hours will be transferred in each of the five areas of the General Examinations (English, Humanities, Mathematics, Natural Sciences, Social Sciences — History).

NOTE: A student who desires additional information on CLEP should contact the Office of Admissions and Community College Relations.

DEPARTMENTAL CREDIT BY EXAMINATION

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

Awarding departmental credit by examination is the perogative of each academic unit. To receive credit by examination, a student must be a regular, degree-seeking student.

CREDIT FOR LIFE/WORK EXPERIENCES

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

Graduate — Graduate credit, per se, will not normally be awarded for life experience, nor will life experience credit be used to meet requirements for the masters degree. In cases where a student's life experience would appear to have been sufficient to develop the understanding and skills associated with a course that would otherwise be included in his graduate program of study, he or she will be allowed to register for Independent Study credits and demonstrate competency through development of an appropriate project acceptable to the faculty person who represents that specific area of specialization. Not more than 20 quarter hours of a 45 credit masters degree, nor 30 quarter hours of a 90 credit masters degree, may be so earned.

A student wishing to have this policy waived, wholly or in part, may petition the Dean of the Academic unit to which he or she has been admitted for special consideration and final responsibility for a decision will rest with that Dean.

TRAVELING SCHOLAR PROGRAM

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

DROPPING AND ADDING COURSES

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

After the official drop/add period has ended, a student may *drop* without a notation appearing on his or her transcript record for an additional three weeks. Courses *dropped after* the first four weeks of classes will receive NC grades.

REPEATED COURSES

A student who repeats a course for which credit was not received may have that designation removed from the transcript record by filing a Repeated Course Form with the Office of Registration and Records.

FINAL EXAMINATIONS

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

APPLICATION FOR GRADUATION

Each student who plans to graduate is required to submit to the Office of 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 quarter in which graduation is expected. There is no charge for applying for graduation.

ACADEMIC SUSPENSION

The academic suspension policy of the University is related to the new grading system to be adopted for the Fall Quarter of the 1975-76 academic year. An explanation of the academic suspension policy is available in the office of each Dean.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to leave the University during the quarter for any reason whatsoever must officially withdraw through the Division of Student Services.

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

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

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

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

READMISSION

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

GRADING SYSTEM

Between 1972-73 and 1974-75, two grading systems were approved for use by the University. Students enrolled during those three years were informed of the grading system used in the College or School of their enrollment.

Continuing studies have been conducted to determine the relative efficacy of the two grading systems. One grading system will be adopted in time for the Fall Quarter of the 1975-76 academic year. An explanation of the adopted grading system will be appropriately published.

Note — An explanation of the meaning of the grades awarded under the previous and current grading systems will be attached to the transcript of students who took courses under those systems.

Note — Since a change of grading systems affects other academic policies and regulations, those other policies and regulations given in the catalog should be read accordingly and are likewise subject to change. Any changes will be appropriately published.

CHANGE OR CORRECTION OF GRADES

Once submitted, end-of-quarter grades (except incompletes) are final and are subject to change only through a Change of Grade Form to correct an error in computation or transcribing, or where part of the student's work has been unintentionally overlooked. A change-of-grade form required the instructor's statement as to the reason for the change, the instructor's signature, and the approval of the appropriate Academic Dean, and must be submitted within one calendar year after the date of the initial end-of-quarter grade.

GRADE REPORTS

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

FOREIGN STUDENTS

UNDERGRADUATE AND GRADUATE ADMISSION STANDARDS AND PROCEDURES

A foreign student must meet the regular admission requirement of the University and comply with the following:

Application and Fee: A completed admission application must be received by the University at least 6 months prior to the desired entering date together with the non-refundable \$15 (U.S. dollars) fee.

Academic Records: Proper 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: Proficiency in English must be established, if the native language is not

English. Since the University does not have a program of English as a foreign language, it must have evidence that proficiency is sufficient to immediately begin a full-time, degree-seeking program. The following are accepted ways to verify proficiency:

- A minimum score of 500 in the Test of English as a Foreign Language (TOEFL). For information write to: The TOEFL Program, Box 899, Princeton, New Jersey, 08540, U.S.A.
- ELS Language Center Certification of satisfactory completion at the 109 level of proficiency. For information write to: ELS Language Center, c/o Barry College, 11330 N.E. Second Avenue, Miami, Florido 33161, U.S.A.
- The ALIGU Test, (American Language Institute, Georgetown University) Washington, D.C. 20007.
- Successful completion of 45 quarter hours (30 semester hours) of course work in an American college or university including 9 quarter hours (6 semester hours) of English Composition.

Declaration and Certification of Finance: A Declaration and Certification of Finances must be completed before the Certificate of Eligibility (Form 1-20A) is issued. Upon receipt of application for admission the Declaration and Certification of Finances will be mailed to the applicant.

The University is required by immigration authorities to carefully check the financial resources of each student prior to issuing the Form 1-20A. Therefore, it is important that the applying student know the costs of attending the University and have the necessary support funds for the period of enrollment.

Before completing the Declaration and Certification of Finances, review the estimate of institutional costs and living expenses. The total funds available to the student for the first and/or second academic years must at least equal the total estimates of institutional costs and living expenses. All questions in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing.

After completing, return the document to: Office of Admissions and Community College Relations, Florida International University, Tamiami Trail, Miami, Florida 33199 U.S.A.

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

Health Insurance: Florida International University requires that all foreign students purchase health insurance in order to help pay for Major Medical expenses. The health insurance policy should be kept active as long as the student is enrolled at the University. Information on the most economical plans are available from the Foreign Student Services Department.

Graduate Students: For information about the GRE and ATGSB, write to Educational Testing Service, Princeton, New Jersey, 08540, U.S.A. Information about test center location also may be obtained in the American Embassy in student's home country.

Tuition: A foreign student is considered a non-resident, and as such will be assessed non-resident fees. The minimum charge for a foreign student is \$555.00 per quarter (undergraduate) or \$405.00 per quarter (graduate). Fees are subject to change without notice.

NOTE: Opportunities for financial assistance are limited if a foreign student is not a resident alien or a U.S. citizen.

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

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

- a) Does not register at the University at the time expected.
- b) Does not carry a full course of studies.
- c) Terminates attendance.

Granting official Extension of Stay is dependent upon the student making normal academic progress toward the Bachelors or Masters requirements.

Employment: An F-1 visa student may not be employed while attending the University unless permission has been granted by the U.S. Immigration and Naturalization Service. Normally, employment will not be permitted, especially during the student's first year of enrollment. Only under very special circumstances because of unexpected conditions or emergencies which arise after the student's arrival, will a foreign student be recommended for a work permit. Adequate proof must be presented to the Foreign Student Advisor in order to obtain the necessary authorization from that institution.

NOTE: A foreign student will not be granted admission to the University until all academic and non-academic requirements have been met, including the Declaration and Certification of Finances.

FEES AND REFUNDS

FEES

As a guide, the <i>proposed</i> fees for t	he 1975-76 academic year are	e:
Application Fee (one time charge;	nan-refundable)	\$15.00
	Florida	Non-Florida
	Residents	Residents
Upper Level Undergraduate		
Courses	\$15.00 per qtr. hr.	\$47.00 per qtr. hr.
Graduate Caurses	\$20.00 per qtr. hr.	\$57.00 per qtr. hr.
Thesis	\$22.00 per qtr. hr.	\$59.00 per gtr. hr.

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

NOTE: Registration is not complete until fees are paid.

EXTERNAL DEGREE PROGRAM FEES

The current External Degree Program fees are given below, and are subject to change.	
Application Fee (one time charge; nan-refundable)	\$15.00
Contract Fee, First Year	350.00
Contract Fee, Subsequent Years	100.00

The contract fees, taken together, cover the cost of evaluating the application, counseling and interview procedures, writing the Educational Contract, and no more than 25 quarter hours of Independent Study.

An External Degree student must register and pay tuition for all additional instruction, whether it is taken as Independent Study or as formal coursework. All formal courses specified in the Educational Contract whether they are taken at Florida International or any other institution, must be paid for through regular tuition at that institution. These payments are over and above the fees for the External Degree Program application, evaluation, and contract pracedure outlined above. The student should also be aware that test fees, such as those for the College Level Examination Program (CLEP), and books and texts required for his or her programs are also additional.

REFUNDS

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

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

- · Death of the student.
- Illness of the student so severe that it prevents completion of the program for which the student is registered. A doctor's certificate of this illness is required.

· Involuntary call to military service.

In the above instances the per hour fee less \$2.94 per hour will be refunded.

No refund will be made under this policy except upon proper application through the Cashier's Office.

PAST DUE STUDENT ACCOUNTS

All student accounts are due and payable at the Cashier's Office, Room 212, Primera Casa, at the time such charges are incurred.

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

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

For the purpose of assessing registration fees, a student shall be classified as Florida or non-Florida. A Florida student is a person who shall have resided and had his or her domicile in the State of Florida for at least twelve (12) consecutive months immediately preceding the first day of classes of the current term.

In applying this policy, "student" shall mean a person admitted to the institution. If such person is a minor, it shall mean parents, parent, or legal guardian of his or her person.

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

The word "damicile" for fee-paying purposes shall denote a person's true, fixed, and permanent home and place of habitation. It is the place where the person intends to remain, and to which the person expects to return after a leave without intending to establish a new damicile elsewhere.

The ward "parent" shall mean a minor's father, or mother; or if one parent has custody of the minor, the parent having custody; or if there is a guardian or legal custodian, of the minor, then such guardian or legal custodian.

In all applications for admission by a student as a citizen of Florida, the applicant, or if a minor, the parents or legal guardian shall make and file with such application a written statement under ooth that such applicant is a bonafide citizen, resident, domiciliary of the State of Florida entitled as such to admission upon the terms and conditions prescribed for citizens, residents, and domiciliaries of the State.

A non-Flarida student is a person not meeting the requirements above. A non-Florida student (ar, if a minor, the parent or parents) after having been a resident and domiciliary of Florida for twelve 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. However, for fee-paying purposes, Cuban nationals will be considered as resident aliens. Such application shall comply with the provisions above. In addition, the application for reclassification must be accompanied by a certified copy of a declaration of intention to establish domicile filed with the clerk of the Circuit Court as provided by Section 222.17 Florida Statutes.

Unless the contrary appears to the satisfaction of the registering authority of the institution at which a student is registering it shall be presumed that:

- The spouse of any person who is classified or is eligible for classification as an in-state student is likewise entitled to classification as an in-state student.
- 2. A minor whose parent is a member of the armed forces and stationed in this State pursuant to military orders is entitled to classification as an in-state student. The student, while in continuous attendance, shall not lose residence when the parent is thereafter transferred on military orders. A member of the armed forces of the United States stationed in this State on military orders shall be entitled to classification as an in-state student while on active duty in this state pursuant to such orders.
- 3. No person over the age of 18 years shall be deemed to have gained residency 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 the student has established damicile in the State.
- 4. Any person who remains in this State when the parent, having theretofore been domiciled in this State, removes from this State, shall be entitled to classification as a Florida student, so long as the student's attendance at a school or schools in this State shall be deemed continuous. Attendance at a school or schools in this State shall be deemed "continuous" if the person claiming continuous attendance has

been enrolled at a school ar schools in this State as a full-time student, as such term is defined by the Board of Regents, for a normal academic year in each calendar year, or the appropriate partian or partians of such years, thereaf, since the beginning of the period for which continuous attendance is claimed. Such person need not ottend summer sessions ar other such intersession beyond the normal academic year in order to render attendance "continuous".

Appeal from a determination denying Florida status to any student may be initiated by the filing of an action in court in the judicial district in which the institution is located.

Any student granted status as a Florida student, which status is based on a sworn statement which is false, shall, upon a determination of such falsity, be subject to such disciplinary sanctions as may be imposed by the President of the University, which sanctions may include permanent expulsion from the State University System or any lesser penalty.

NOTE: A student who initially registers as a non-Florida resident, but subsequently changes to Florida residency, must indicate this change prior to the academic quarter he or she wishes to be considered a Florida resident. All changes of residency are to be made in the Office of Admissions and Community College Relations.

SPECIAL CATEGORIES

The following categories shall be treated as Florida residents for tuition purposes:

- Military personnel of the United States of America an active duty and stationed in Flarida, including dependent members of their immediate families.
- Veterons of the United States of America retired with twenty (20) years or more af active military service, including dependent members of their immediate families, who are in Florida at the time of retirement, ar who move to Florida within one year following retirement and intend to make Florida their permanent home.
- Full-time elementary, secondary, and junior college faculty members under current teaching contracts in the State of Florida.
- Full-time faculty and career employees of the University System and members of their immediate families. (This is construed to exclude the spauses of students.)
- Students selected by their respective states for participation in the Sauthern Regional Education Board acodemic common market pragram who are enrolled in programs approved by the Flarida Board of Regents.

A student who is in one of the special categories above may change status from non-Florida to Florida resident by presenting to the Office of Admissions and Community College Relations a copy of the *Declaration of Intent* to establish domicile that has been filed with the Clerk of the Circuit Court and the completed and notarized Residency Affidavit Form. To claim the military exception, the student must furnish the Office of Admissions and Community College Relations a copy of the military orders showing assignment to Florida. A public school official must submit a written statement from the applicant's superior as to the applicant's public school status. A University employee must submit a statement from the Personnel Office as to the applicant's employment status.

COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is both a Liberal Arts College and a support unit for the University's professional schools. The twelve departments in the College offer programs of study leading to Bochelors degrees in Biology, Economics, English, Fine Arts (Art, Music, Theatre), History, Mathematical Sciences (Mathematics, Statistics, Computer Science), Modern Languages, Philosophy and Religion, Physical Sciences (Chemistry, Physics, Environmental Studies, Earth Sciences), Political Science, Psychology, and Sociology/Anthropology. The College also offers a program in International Relations and interdisciplinary majors in Humanities, Eiberal Studies, and Social Sciences. Students may earn "area" certificates in Black Studies, Caribbean Studies, Jewish Studies, and Latin American Studies.

Although the College faculty come from many different academic disciplines all are committed to the same basic educational goals — to help the student (1) explore the source of theoretical knowledge (2) explore areas of general concern regarding humankind, its history, culture, environments, and creativity, and (3) develop and test ideas and solutions to current and emerging problems and issues.

ADMISSION

A student holding an *Associate* degree from a community college (or having completed the equivolent course work at a four year school) will be admitted to the department of his or her choice. The College will serve those who are, for a variety of reasons, unable to enroll directly in certain schools and programs of the University. The College will provide compensatory education to enable such students to meet the course, credit, or degree requirements of the Schools.

ANTHROPOLOGY MAJOR

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

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

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

Required Courses: introduction to cultural anthropology, or introduction to physical anthropology, or introduction to sociology.

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

UPPER DIVISION PROGRAM:

		Quarter Hours
Required Co	ourses:	60
Core Cor	urses:	20
ASC 301	Anthropological Theories	5
ASC 302	Sociological Theories	5
ASC 303	Research Methods	5
ASC 304	Ethical Issues in Social Science Research	5
Area Cours	es: either Anthropology or Sociology	40
Electives: wi	th the approval of the faculty advisor	30
		90

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

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

COURSE OFFERINGS

ASC 301 ANTHROPOLOGICAL THEORIES (5) This course examines the process of theory building and explanation in the social sciences and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution, Boos and historical particularism, Freud and culture and personality, and Malinowski and functionalism.

ASC 302 SOCIOLOGICAL THEORIES (5) Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists with respect to their methodologies, 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.

ASC 303 RESEARCH METHODS (5) An introduction to the scientific method and its application to onthropological and sociological research. Topics include formulation of research problems, research design, field methods and collection of data, hypothesis testing and interpretation of results.

ASC 304 ETHICAL ISSUES IN SOCIAL SCIENCE RESEARCH (5) An introduction to the problems and possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between maral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Cose studies involving issues such as nation-building in areas of accelerated change including Africa and Asia.

ANT 300 INTRODUCTION TO SOCIAL SCIENCE (5) An introduction to anthropology, psychology, and sociology; a survey of the similarities and differences in history, philosophy, and goals and techniques of research in these disciplines; and a review of modern interdisciplinary efforts.

ANT 301 THE SCOPE OF ANTHROPOLOGY (5) An introductory survey of the major areas of anthropological inquiry, including social, cultural, physical and applied anthropology, as well as archeology and linguistics. An examination of the anthropological perspective.

ANT 302 ORIGIN AND DISPERSION OF MAN AND WOMAN (5) A study of the biological history of man as interpreted through the theory of evolution, anatomy and the fossil record, contemporary population genetics, and the concept of race.

ANT 303 PREHISTORY OF THE AMERICAS (5) Early man in the Americas is examined through archeological record.

ANT 304 MAKERS OF MODERN ANTHROPOLOGY (5) The croft of onthropology is explored through the work and writings of such well-known anthropologists as Ruth Benedict, L.S.B. Leakey, Claude Levi-Strauss, Oscar Lewis, Margaret Mead and Robert Redfield. Designed for non-majors; majors may enroll for elective credit only.

ANT 305 SOCIAL BIOLOGY (5) An examination of the biological bases for human adaptation and sociocultural interaction.

ANT 311 ANTHROPOLOGY OF CONTEMPORARY SOCIETY (5) 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 313 AGRICULTURE AND SOCIETY (5) An introduction to the role of agriculture in the development of civilizations; comparative agricultural production systems; problems and prospects of agricultural development.

ANT 325 KINSHIP AND SOCIAL ORGANIZATION (5) Topics will include the comparative study of systems of kinship, social organization and politics in preliterate societies. Age and sex differences, division of lobor, class, caste, slavery and serfdom will also be explored.

ANT 326 MYTH, RITUAL AND MYSTICISM (5) A survey of onthropological 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 compored.

ANT 327 PEASANT SOCIETY (5) Comparative study of peasant societies with emphasis on the concepts of folk community, traditional culture, and modernization. Data on peasantry in Latin America and other culture areas will be reviewed.

ANT 328 MOVEMENTS OF REBELLION AND REVITALIZATION (5) Crosscultural study of revolutionary, messianistic, and revitalization movements in tribal and peasant societies. Case materials include Negro slave revolts, cargo cults, and peasant wars of the twentieth century (Mexico, China, Vietnom).

ANT 335 URBAN ANTHROPOLOGY (5) Anthropological study of urbanization and urban life styles with particular emphasis on rural-urban migration and its impact on kinship groups, voluntary associations and cultural values.

ANT 337 CULTURE AND PERSONALITY (5) The relationship between culture and personality; problems of individual adjustment to cultural norms; and current issues in psychological anthropology.

ANT 338 LANGUAGE AND CULTURE (5) An examination of the relationship between language and culture, the implications of language for our perceptions of reality, and the socio-cultural implications of language differences for interethnic relations and international understanding.

ANT 355 MEDICAL ANTHROPOLOGY (5) A survey of basic concepts; examination of preliterate and nonwestern conceptions of physical and mental health and illness; emphasis on cultural systems approach to the study of illness and health care. Background in biology, medicine, or nursing helpful; instructor's permission reauired.

ANT 356 HUMAN BIOLOGY AND CULTURAL BEHAVIOR (5) The study of animal social behavior and the relevance of these ethological studies for the analysis of human development and socio-cultural behavior.

ANT 365 CULTURAL ECOLOGY (5) Systems of interaction between man and his environment; the role of social, cultural and psychological factors in the maintenance and disruption of ecosystems; interrelations of technological and environmental changes.

ANT 366 MALE AND FEMALE: SEX ROLES AND SEXUALITY (5) Crosscultural enthnographic 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 370 THE INDIVIDUAL IN ANTHROPOLOGY (5) Study of the individual in his sociocultural 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 385 UTOPIAS AND INTENTIONAL COMMUNITIES (5) A case study examination of historical and contemporary attempts to develop the "ideal" social setting for human interaction. The community study approach in anthropology will serve as the theoretical basis for this course.

ANT 386 THERAPEUTIC COMMUNITIES (5) Cross-cultural and inter-ethnic analysis of mental health and illness. Analysis of formal and informal community mental health delivery systems with emphasis on clinical, humanistic, and therapeutic modalities.

ANT 400 APPLIED ANTHROPOLOGY (5) The theory and practice of applied anthropology; cultural factors and planned community change; implications of cose data for public policy. Emphasis will be placed on the processes of economic development and culture change in developing nations.

ANT 403 RACIAL AND CULTURAL MINORITIES (5) The study of selected ethnic and cultural groups with particular emphasis on patterns of interethnic and intercultural relationships. Minority groups studied will include Afro-Americans, American Indians, Chicanos, Cubans, women, senior citizens or prisoners.

ANT 411 THE RURAL POOR: MIGRANTS, SHARECROPPERS AND TENANT FARMERS (5) The decline of the family farm and the rise of corporate agribusiness; the life styles of migrants, sharecroppers and tenant farmers; the farm labor movement and farmer cooperatives; government policy and the rural poor.

ANT 413 WORLD FOOD SUPPLY (5) An exmination of world food supply and distribution potterns and problems; comparisons between nutritional standards and human and economic development programs among industrialized and Third World nations are made.

ANT 415 THE ORGANIZER (5) A study of men who have inspired mass organizations and brought about mojor social and cultural transformations. The organizing styles of Christ, Gandhi, Hitler, Moo Tse-Tung, and Martin Luther King will be examined. The relationship between culture content and organizational symbols will be analyzed.

ANT 420 CULTURES OF THE CARIBBEAN (5) An ethnological survey of native cultures and of the processes of culture contact and conflict in the Caribbean and Circum-Caribbean region.

ANT 421 LATIN AMERICA (5) Native cultures of Mexico, Central and South America; the lowland hunters and gathers and the pre-Columbian Inca and Aztec Empires; the impact of the Spanish conquest.

ANT 423 AFRO-AMERICAN ANTHROPOLOGY (5) Interdisciplinary study of Afro-American cultures of the New World. Topics include cultural patterning, Black English, ethnomusicology, socio-economic adaptations, black culture and ghetto ethnography.

ANT 424 THE AMERICAN SOUTH: A REGIONAL SUBCULTURE (5) A course designed to provide an understanding of the Southern regional subculture, Discussion topics will include an analysis of the sociocultural characteristics attributed to this region.

ANT 425-426-427-428-429 AREA STUDIES (5) Ethnological survey of selected indigenous cultures. Areas to be studied include: (1) North America; (2) Africa; (3) Asia or Southeastern Asia; (4) China. Topics will be announced and will vary depending on current staff.

ANT 431-432-433-434-435 (5) Special courses dealing with odvanced topics in the major onthropological subdisciplines: (1) social and cultural anthropology; (2) applied anthropology; (3) physical anthropology; (4) linguistics; and (5) archeology. Instruction by staff or visiting specialists. Topics to be announced. Instructor's permission required. May be repeated.

ANT 440 THE THIRD WORLD (5) An interdisciplinary, cross-cultural survey of the factors contributing to the emergence of the Third World significant political, economic, and pan-national and pan-ethnic coolitions are analyzed.

ANT 455 SPECIAL TOPICS IN MEDICAL ANTHROPOLOGY (5) Special courses dealing with advanced topics including (1) folk medicine and ethnoscience (2) nutritional anthropology (3) onthropology and nursing (4) medical anthropology and the elderly.

ANT 456 HALLUCINOGENS AND CULTURE (5) A crosscultural examination of the political, religious, and socio-cultural factors related to the use of hallucinogens. Case materials from tribal and contemporary societies will be analyzed, including the study of soma, the divine mushroom of immortality of the Hindu Rig-Veda; the Native American Indian peyote cult; shamanism and healing in Latin America; the teachings of Don Juan, a Yaqui sorcerer; and the therapeutic uses of LSD.

This course does not focus primarily on drug abuse and rehabilitation although these topics are mentioned within the comparative context of the ethnographic data.

ANT 461 PRACTICUM (5) Permission of the instructor required.

ANT 475 EXPLORATIONS IN VISUAL ANTHROPOLOGY (5) 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 crosscultural data on paralonguage, kinesics, proxemics and choreometrics will be reviewed and discussed.

ANT 485 CULTURE SHOCK: THE YEAR 2000 (5) An investigation of future patterns of culture; an analysis of the concepts of culture lag, culture change, culture shock and future shock; review of conceptual models of projecting the shape of post-industrial society and the relationship of mon to his environment in the year 2000.

ANT 491 DIRECTED INDIVIDUAL STUDY (VAR) (F,W,S,SS) Supervised readings and/or field research and training. May be repeated.

ANT 492 DIRECTED FIELD RESEARCH (VAR) (F,W,S,SS) Permission of Instructor required.

ANT 501 COMMUNITY ACTION RESEARCH SEMINAR (5) Seminar will focus on the opplication of social science dota gathering techniques to the analysis and resolution of community issues such as urban planning, environmental quality, and corporate/consumer accountability. Open to majors only. ASC 303 or permission of the instructor required.

ANT 511-512-513-514-515 TOPICS IN ANTHROPOLOGY (5) 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) archeology. Instruction by staff or visiting specialists. Tapics to be announced. Instructor's permission required. May be repeated.

ANT 522 ANTHROPOLOGY FOR EDUCATORS (5) A course designed to provide educators, particularly at the secondary level, with an overview of anthropology as a discipline; its role in a social science curriculum; methods for designing and teaching anthropology courses; and sources of bibliographic and audio-visual aids.

ANT 555 CULTURAL FACTORS IN HEALTH CARE DELIVERY (5) Topics studied include the varieties of subcultural perceptions of and responses to illness; formal and informal healing systems; the indigent patient; and the design of health care delivery services in a multicultural area. Prerequisite: Medical Anthropology course or permission of the instructor required.

ANT 557 ADDICTS AND ADDICTIONS (5) A cross-cultural examination of the historical, socio-cultural, and pharmacological factors involved in drug abuse and addiction. Various treatment programs are compared and evaluated.

ANT 591 DIRECTED INDIVIDUAL STUDY (VAR) (F,W,S,SS) Supervised readings and/or field research and training. May be repeated.

BIOLOGICAL SCIENCES MAJOR

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

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

Recommended courses: Foreign language, calculus, organic chemistry

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

UPPER DIVISION PROGRAM:

Quarter Hours
24
5
7
7
5
15
14
5
32
_
90

(Continued)

- *BSC 300, 305, 306, 308, 364, 374, 380 and 480 are not applicable to this requirement.
- **Recommended: Che 311, Physical Chemistry for the Life Sciences.

Remark: Attendance at Departmental Seminars for at least one quarter is required from all senior students.

SPECIAL PROGRAMS

BACHELOR OF SCIENCE (WITH HONORS)

Requirements:

- a) Admission to Program by permission of the department.
- b) Program of study arranged in consultation with faculty advisor.
- c) Two quarters of BSC 590.
- d) Completion of Undergraduate Honors Thesis

PRE-PROFESSIONAL CURRICULA

Programs of study satisfying requirements for admission to Colleges of Medicine, Dentistry and Veterinary Medicine arranged in consultation with faculty advisor. CHE 311, MAS 301 and BSC 336 are recommended as fulfilling requirements of many professional schools.

MINOR IN HUMAN BIOLOGY

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

- BSC 300 Human Biology
- BSC 306 Biological Basis of Human Sexuality
- BSC 310 General Microbiology
- BSC 341 Genetics
- BSC 349 Biological Basis of Behavior
- BSC 355-356 Human Gross Anatomy
- BSC 357 Neuroscience
- BSC 374 Foundations of Human Physiology
- BSC 451, or BSC 350 and 351 are options for students who desire a more sophisticated course in Human Physiology. There are no prerequisites for BSC 300, 305, 306 and 374.

MASTER OF SCIENCE IN BIOLOGICAL SCIENCES

Program in preparation.

COURSE OFFERINGS

BSC 300 HUMAN BIOLOGY (5) Humon structure and function with emphasis on aspects that relate to human development, genetics and neurobiology. Their relationship to handicapping conditions with respect to mental retardation and behavioral disorders will be discussed.

BSC 301 BIOCHEMISTRY (5) Introduction to the chemistry of proteins, carbohydrates, lipids and their constituents. Principles of enzymology and metabolism. Prerequisites: CHE 220, 221 (MDCC) or CHE 301, 302.

BSC 301L BIOCHEMISTRY LABORATORY (2) Laboratory to accompany BSC 301.

BSC 302 MOLECULAR BIOLOGY (5) Nucleic acid chemistry and molecular genetics; biosynthesis of protein and nucleic acids. Core Course required of majors in Biological Sciences. Prerequisite: BSC 301 or equivalent.

BSC 302L MOLECULAR BIOLOGY LABORATORY (2) Laboratory to accompany BSC 302.

BSC 306 BIOLOGICAL BASIS OF HUMAN SEXUALITY (5) The physiological development of the human organism as a sexual being will be treated with a review of the psycho-social and psycho-sexual basis of human personality. Patterns of adult sexual behavior will be explored with emphasis on achieving healthy human sexual attitudes.

BSC 308 BIOLOGICAL OCEANOGRAPHY (5) The basic aspects of biological, geological, chemical, and physical oceanographic processes as they relate to marine organisms. Lecture and demonstrations. Prerequisites: 8 semester hours of biology.

BSC 310 GENERAL MICROBIOLOGY (5) Introduction to the principles and techniques of microbiology; genetics, toxonomy, biochemistry and ecology of microorganisms.

BSC 310L GENERAL MICROBIOLOGY LABORATORY (2) Introduction to the principles and techniques of microbiology, genetics, toxonomy, biochemistry and ecology of microorganisms.

BSC 320 TOPICS IN TROPICAL BOTANY (5) Survey of representatives of major plant families of the tropics. Examination of selected adaptive characteristics of plants in the tropical ecosystems. Introduction to spices and economically significant tropical plants.

BSC 329 BIOLOGY OF THE ORCHIDS (5) Examination of classification systems of the major orchid groups. Study of the role of floral morphology, environmental adaptation, and pollinator co-evolution in speciation. Summary of accepted cultural techniques.

BSC 329L BIOLOGY OF THE ORCHIDS LABORATORY (2) Laboratory to accompany BSC 329.

BSC 331 THE INVERTEBRATES (5) Taxonomy, anatomy, development, physiology and ecology of major invertebrate phyla excluding insects. Emphasis on marine invertebrates.

BSC 331L THE INVERTEBRATES LABORATORY (2) Laboratory to accompany BSC 331.

BSC 332 GENERAL ENTOMOLOGY (5) Taxonomy, development, morphology and distribution of insects. Ecology and economic problems. Lecture conference and laboratory.

BSC 334 AMPHIBIANS AND REPTILES (5) Comparative studies in distribution, development, anatomy and physiology of amphibians and reptiles. Lecture, conference, field trips and laboratory.

BSC 335 BIRDS AND MAMMALS (5) Taxonomy, distribution and notural history of birds and mammals. Lecture, conference, field trips and laboratory.

BSC 336 EMBRYOLOGY (5) Animal morphogenesis.

BSC 336L EMBRYOLOGY LABORATORY (2)

BSC 337 TOPICS IN MARINE BIOLOGY (5) Selected problems in the biology of marine organisms. Lecture and field trips.

BSC 338 HISTOLOGY (5) Microscopic anatomy of cells, tissues and organs.

BSC 338L HISTOLOGY LABORATORY (2)

BSC 341 GENETICS (5) Mendelian inheritance and introduction to molecular genetics.

BSC 349 BIOLOGICAL FOUNDATIONS OF BEHAVIOR (5) Biological basis of behavior emphasizing neural and harmonal mechanisms of integrated behavior. Lecture, conference, library or laboratory projects.

BSC 350 HUMAN PHYSIOLOGY I (4-5) Basic facts and concepts relating to the physiology of cells, nervous, muscular and cardiovascular systems with emphasis an regulatory mechanisms and abnormal physiology.

BSC 350L Human Physiology Laboratory I (1) Laboratory cause demonstrating principles in BSC 350.

BSC 351 HUMAN PHYSIOLOGY II (4-5) Physiology of respiratory, gastraintestinal, excretory, endacrine and reproductive systems. Continuation of BSC 350.

BSC 351L HUMAN PHYSIOLOGY LABORATORY II (1) To accompany BSC 351.

BSC 355 HUMAN GROSS ANATOMY I (4) Structure and function of various tissues, organs, and organ systems of the human bady.

BSC 355L HUMAN GROSS ANATOMY LABORATORY (2) Dissection of human codaver material to reveal the relationships of the various organ systems of the bady.

BSC 355D HUMAN GROSS ANATOMY DEMONSTRATIONS (1) Demonstrations of the prasected human cadaver.

BSC 356 HUMAN GROSS ANATOMY II (4) Continuation of BSC 355. Prerequisite: BSC 355.

BSC 356L HUMAN GROSS ANATOMY LABORATORY II (2) Continuation of BSC 355L. Prerequisite: BSC 355 and 355L.

BSC 356D HUMAN GROSS ANATOMY DEMONSTRATIONS (1) Continuation of BSC 355D. Prerequisite: BSC 355 and 355D.

BSC 357 NEUROSCIENCE (4-6) Structure and function of the human nervous system. Prerequisite: One course in physiology, plus BSC 355 and 356.

BSC 357L NEUROSCIENCE LABORATORY (2) Dissection and demanstration of the various parts of the human brain.

BSC 360 FUNDAMENTALS OF ECOLOGY (5) The basic principles governing the interaction of organism and environment. Traphic structure and energetics of ecosystems, biageachemical cycles, limits and controlling factors in organismic distribution and abundance, biological interactions, species diversity, evalution of populations and communities, the impact of man. Lecture and field trips. Prerequisite: One year of biology; basic chemistry.

BSC 362 MORPHOLOGY OF VASCULAR PLANTS (5) A survey of groups of vascular plants emphasizing comparative life histories, vegetative and reproductive structures, and evolutionary relationships.

BSC 362L PLANT MORPHOLOGY LABORATORY (2) Laboratory to accampany BSC 362.

BSC 364 HORTICULTURE (5) Examination of theoretical and practical problems of plant growth and production. Prerequisites: A course in plant sciences or advanced biology (or instructor's permission).

BSC 365 INTRODUCTION TO PLANT PHYSIOLOGY (5) Fundamentals of plant growth considering such tapics as growth reactions to environmental stimuli, endogenous growth hormones, and practical modifications of plant life cycles.

BSC 372 INTERMEDIATE HUMAN PHYSIOLOGY (5) Functions of the human body and the physicochemical mechanisms responsible for each organ's function.

BSC 372L INTERMEDIATE HUMAN PHYSIOLOGY LAB (2) Laboratory course demonstrating principles in BSC 372.

BSC 374 FOUNDATIONS OF HUMAN PHYSIOLOGY (5) Functional survey of the argan systems of the human body. Intended primarily for non-science majors.

BSC 376 IMMUNOLOGY (5) Course required in medical technology curriculum. Lecture and laboratory.

BSC 380 PROJECT LABORATORY (3-8) Independent laboratory study in a project or projects of the student's chaice. Registration by consultation with instructor. May be repeated for credit.

BSC 401 DEVELOPMENTAL BIOLOGY (5) Comprehensive survey of principles of development and critical analysis of methods used to study these problems. Care course required of major in Biological Sciences. Prerequisite: BSC 302.

BSC 402 EXPERIMENTAL BIOLOGY (2) Laboratory techniques used in biological research. The specific techniques covered will depend on the field of wark of the instructor responsible for the course during a given quarter. May be repeated for credit under different instructors. Prerequisite: Permission of the instructor.

BSC 403 CELL BIOLOGY (5) Structure and function of cellular arganelles.

BSC 411 VIROLOGY (5) Principles and methods of study of bacterial, plant and animal viruses. Malecular aspects of viral development, virus pathogens and carcinagens. Lecture, conference and laboratory.

BSC 411L VIROLOGY LABORATORY (2) (W) Laboratory to accompany BSC 411.

BSC 423 INVERTEBRATE PHYSIOLOGY (5) Lectures treating functional processes in invertebrates from the standpoint of adaptation to their environment and specialization in evalution. Prerequisites: General Biology, Organic Chemistry, Invertebrate Zaology.

BSC 423L INVERTEBRATE PHYSIOLOGY LABORATORY (2) Laboratory study to follow or accompany BSC 423.

BSC 425 COMPARATIVE PHYSIOLOGY I: REGULATION OF INTERNAL ENVIRONMENT (5) Osmotic, gastrointestinal, metabolic, circulatory and respiratory physiology. Prerequisite: general biology and organic chemistry.

BSC 425L COMPARATIVE PHYSIOLOGY LABORATORY I Laboratory course demonstrating principles in BSC 425.

BSC 427 COMPARATIVE PHYSIOLOGY II: NEUROENDOCRINE PHYSIOLOGY (5) Neuromuscular, sensory and endacrine physiology. Prerequisites: General biology and organic chemistry.

BSC 427L COMPARATIVE PHYSIOLOGY LABORATORY II (2) Laboratory course demonstrating principles in BSC 427.

BSC 451 HUMAN SYSTEMIC PHYSIOLOGY (5) Selected topics in mammalian and human physiology, with emphasis on topics of clinical significance.

BSC 480 PROJECT LABORATORY (3-8) Independent laboratory study in a project or projects of the student's choice. Registration by consultation with instructor. May be repeated for credit.

BSC 504 CELL PHYSIOLOGY AND BIOPHYSICS (5) Fundamental biophysical properties of membranes; transport of water and salutes across biological membranes; passive and active electrical phenomena in membrane systems. Biochemistry and biophysics of contractile mechanisms. Transfer of information from cell to cell. Bioluminescence. Effects of radiation on macromolecules. Prerequisites: BSC 301, 302; CHE 311 or CHE 321 and 322.

BSC 507 BIOCHEMISTRY I (6) Chemical reactions and macromalecular properties of prateins, nucleic acids and polysaccharides. Genetic and evolutionary aspects of pratein structure.

BSC 508 BIOCHEMISTRY II (6) Comparative biochemistry: metabolism and regulation of metabolism in microarganisms, plants and animals, mechanisms of enzyme reactions.

BSC 542 TOPICS IN DEVELOPMENTAL BIOLOGY (5) Molecular and cellular mechanisms in the development of plants and animals.

BSC 545 PHOTOBIOLOGY (5) Study of basic photochemical mechanisms as they occur in molecular biological processes such as plant growth, animal vision and radiation damage.

BSC 545L PHOTOBIOLOGY LABORATORY (2) Laboratory to accompany BSC 545.

BSC 550 ADVANCED NEUROANATOMY (5) Indepth knowledge of the embryonic development, structure and function of the human nervous system with a great deal of clinical consideration.

BSC 560 MARINE ECOLOGY (5) Environmental variations in the oceans, characteristic arganisms and ecasystem analysis with particular emphasis on shallow water habitat in the Sauth Florida area. The caurse will emphasize fieldwark, projects and systematic analyses of ecasystem components. Prerequisites: BSC 308, 331 and 360.

BSC 560L MARINE ECOLOGY LABORATORY (2) Laboratory to accompany BSC 560.

BSC 570 TOPICS IN TROPICAL PLANT SCIENCE (5) (SS) Survey of living materials of at least 50 major trapical plant families. Developmental studies using trapical plant materials are reviewed from both physiological and marphalogical viewpoints. In addition to lectures in economic botany, field studies of trapical fruit and spice trees are carried aut. At least four major trapical ecosystems are analyzed and examined in the field.

BSC 570L TOPICS IN TROPICAL PLANT SCIENCE LABORATORY (2) Laboratory to accompany BSC 620.

BSC 590 SENIOR-GRADUATE SEMINAR (2) Oral presentation of an assigned literature survey by senior and graduate students. Required of candidates in the proposed Honors Pragram. Registration by letter grade for aral presentation or credit/na credit aption by participation and submission of written report.

BSC 601 ENZYME CHEMISTRY (5) Physical and chemical properties of enzymes. Review of modern, analytical technique in measurement of enzymatic reactions. Discussion of selected enzyme systems.

BSC 665 PLANT PHYSIOLOGY AND BIOCHEMISTRY (5) Advanced topics emphasizing on transport, plant harmones, trapisms and photosynthesis. Lecture conference and laboratory.

BSC 680 PROJECT LABORATORY (5) As BSC 380.

ECONOMICS MAJOR

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

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: Nane

Recommended Caurses: six semester hours in principles of economics; three semester hours in social science; six to nine semester hours in humanities; six semester hours in college algebra and triganometry; three semester hours in statistics.

Remark: the entering student who has not taken principles of Economics must enroll in ECO 301 during his or her first quarter at the University.

UPPER DIVISION PROGRAM:

Major Required Courses:	Quarter Hour
	45-60
ECO 307 Theory of Price	5
ECO 308 Aggregate Ecanamic Analysis	5
MAS 321 Calculus far Management and Social Science	5
Additional Economic Courses*	
*ECO 301, ECO 305, or ECO 311 cannat be	
included in this grouping	
Electives:	30-45
	90

Remarks: a student may choose a pragram in general economics or concentrate in one of the following oreas: urban and environmental economics, labor and manpawer studies, international economics and development, monetary and fiscal policy. The student should select courses in consultation with an advisor. The student planning graduate study in economics should complete 10 quarter hours of the specified method courses.

Minor Required Courses:	Quarter Hou
ECO 307 Theory of Price	20
or	
ECO 308 Aggregate Ecanomic Analysis	5
Additional Economics Courses*	15
*ECO 301, ECO 305, or ECO 311 cannot be	
included in this grouping	20

Remark: intraductory caurses in calculus and statistics are strongly recommended for the student minoring in economics.

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COURSE OFFERINGS

ECO 301 ECONOMICS, MAN AND SOCIETY (5) (F,W,S,SS) Relationship of economics to individual and group action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups. Public issue interpretation in the light of economic theory.

ECO 305 CONSUMER ECONOMICS (5) Consumer behavior; advertising and other influences affecting demand. Patterns of consumer expenditure, effects of public policy on family incomes and consumption potterns. The consumer protection movement.

ECO 306 MONEY AND BANKING (5) 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 307 THEORY OF PRICE (5) (F,S) Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics.

ECO 308 AGGREGATE ECONOMIC ANALYSIS (5) (W,SS) 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.

ECO 311 APPLIED MACROECONOMICS (5) (F,S,W,SS) Aggregate economic performance and business conditions analysis. Analysis of the nature and causes of business fluctuations. Economic expansions and stagillation. Public policies for economic stability: fiscal policy, monetary policy and income policy. Sectoral analysis and macroeconomic forecasting.

ECO 312 DEVELOPMENT OF ECONOMIC THOUGHT (5) (W,S) 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 313 COMPARATIVE ECONOMIC SYSTEMS (5) (F,S) Analysis of alternative economic systems of the industrialized and emerging nations; emphasis on the comparative study of the capitalist, socialist, and communist economic systems of the modern world.

ECO 316 ECONOMICS OF CENTRAL AMERICA (5) (W) 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.

ECO 319 INTRODUCTION TO ENVIRONMENTAL ECONOMICS (5) (W) Economic principles applied to environmental problems. Relationship of market and nonmarket forces to environmental quality; development of tools for policy analysis.

ECO 320 INTRODUCTION TO URBAN ECONOMICS (5) Study of the urban environment, characteristics and trends. Location behavior of firms and households. Urban financial problems, transportation, and housing.

ECO 321 REGIONAL ECONOMICS (5) The spatial order of the economy. Systems of cities, industrial locotion patterns, regional land use, interregional income and trade, regional economic expansion, population and migration.

ECO 328 ECONOMICS OF POVERTY (5) Poverty in the United States; its measurement and history. Theory of personal income distribution. Present and proposed policies to alleviate poverty.

ECO 329 ECONOMICS OF RACE AND SEX DISCRIMINATION (5) (S) Economic and non-economic implications of discrimination on the basis of race and sex. Discrimination in the labor and commodity markets. Problems of educational training, unemployment, and personal income distribution.

ECO 403 THE ECONOMIC DEVELOPMENT OF CUBA — PAST AND PRESENT (5) (S) Survey of the Cuban economy under capitalist and Marxist ideologies; emphasis on the transition stage and on current policies of economic and social change.

ECO 408 ECONOMIC CARIBBEAN INTEGRATION (5) (W) Analysis of the method, meoning and implications of economic integration in the Caribbean area. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation.

ECO 409 ECONOMICS OF THE CARIBBEAN (5) (W) Survey of the economic systems of the major British, French, Dutch and Sponish areas in the Caribbean. Special attention devoted to current problems of economic growth and social transformation.

ECO 410 INTRODUCTION TO ECONOMIC DEVELOPMENT (5) 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.

ECO 411 ECONOMIC PLANNING (5) Analysis of planning methods in Capitalist and Socialist economies. Evaluation of macro and micro economic planning tools (input-output and programming techniques). Theory and practice of economic development planning of agriculture, industrialization, foreign trade and manpower.

ECO 412 RADICAL POLITICAL ECONOMY (5) The relationship between Marxist and orthodox economists. Attention given to the New Left and other current criticisms of capitalist economies; multinational corporate policy, concentration of economic power, income distribution, and Third World development.

- ECO 413 THEORIES OF ECONOMIC PROGRESS (5) (F) Dynamics of economic progress and change in industrialized and underindustrialized countries of the modern world; historical theories of growth; empirical case studies; formulation of development projects and programs. (Recommended preparation: ECO 307 or 308.)
- ECO 414 ECONOMICS OF TECHNOLOGICAL CHANGE (5) Economic analysis of technological possibilities in the production process and the estimation of productian and cost functions. Case studies of research and development (R&D) and technical innovation. Management of science and technology; transfer and adaptation of intermediate and advanced technologies to emerging nations.
- ECO 415 EUROPEAN ECONOMIC HISTORY (5) The development of Mediterranean and Western European economies from the earliest times to the 20th Century. Attention is centered an capital accumulation, technology, trade, industrialization, monetary factors, and the role of government in economic organization.
- ECO 416 ECONOMIC DEVELOPMENT OF THE UNITED STATES (5) The growth of the American economy from colonial times to the present; special emphasis on the market forces, institutional arrangements, and policies contributing to this process.
- ECO 417 AMERICAN BUSINESS HISTORY (5) The growth of American business from 1880 to present; integration, diversification, and foreign expansion. Business strategies and managerial structures.
- ECO 418 ORIGINS OF INDUSTRIALIZATION (5) The transformation to modern society. The earliest industrial revolution in England, 1750-1850, and its impact on the European continent.
- ECO 421 LAND AND RESOURCE ECONOMICS (5) Availability, use, and control of land and other natural resources. Resource conservation, investment, and taxation. Environmental implications. Resource markets and pricing.
- ECO 422 ECONOMICS OF TRANSPORTATION (5) Economic analysis applied to specific problems of transport. Effects of location and transportation cost on firm behavior; public regulation and policy; capacity, rate structure, service areas; problems of urban mass transportation. (Recommended preparation: ECO 307.)
- ECO 424 ECONOMIC POLICY FOR INDUSTRY (5) Governmental activities affecting business, government regulation of business and its historical, legal, and economic perspectives, including recent developments in the United States and abroad; governmental assistance to business; proposed policies. (Recommended preparation ECO 307).
- ECO 425 PUBLIC CHOICE AND THE PUBLIC FINANCES (5) (W) Analysis of administrative and legislative decisions applicable to public goods and services; government expenditure policy; sources of revenue; public credit; fiscal policy, principles and methods of taxation and financial administration. (Recommended preparation: ECO 307.)
- ECO 428 LABOR ECONOMICS (5) (S) Economic problems and issues of trade union organization and wage theory; jab security, hours, working conditions, labor legislation, unemployment, and discrimination. (Recommended preparation, ECO 307.)
- ECO 430 INTRODUCTION TO MATHEMATICAL ECONOMICS (5) (W) 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 307 or 308.)
- ECO 431 INTRODUCTION TO ECONOMETRICS (5) (\$\sqrt{s}\) Introduction to measurement in economics; numerical evaluation af mathematical models by statistical methods; survey of classical models; scope and method of econometric analysis. (Recommended preparation: ECO 307 or 308, and ECO 430).
- ECO 434 MEDICAL AND HEALTH ECONOMICS (5) Economic analysis of medical and health services. Physician and dentist pricing; hospital supply; markets in health-related professions; drug and equipment markets; medical and health insurance; national priorities and policy for health service delivery. (Recommended preparation: ECO 307.)
- ECO 438 THE INTERNATIONAL ECONOMY (5) (W,SS) Principles of international trade; 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 308.)
- ECO 439 INTERNATIONAL MONETARY RELATIONS (5) International money and capital markets, international financial institutions. Interpretation of balance of payments statements. Adjustments to disequilibria through changes in prices, exchange rates, and national income.
- ECO 440 MULTINATIONAL CORPORATION (5) Growth and development of multinational enterprise. Theories of direct foreign investment. Impact on the United States and other developed and less developed nations. Policy implications relating to employment, economic growth, balance of payments, taxation, and national defense. National sovereignty and the multinational corporation.
- ECO 441 ECONOMICS AND DIPLOMACY (5) Description and analysis of interactions between economic and foreign policy. Free trade vs. protectionism; balance of payments problems; raw material needs and their influence on foreign policy; the "open door" policy; antitrust, taxation, and technology; East-West trade. The approach will be historical.
- ECO 444 PROSPERITY, DEPRESSION AND INFLATION (5) Historical analysis of the Great Depression, business cycles, inflation, and prasperity. Emphasis on the theories of economic cycles and inflation.

ECO 454 THE LATIN AMERICAN ECONOMIES (5) Survey of economic status and problems of Latin American nations; analysis of economic and social forces at work in Latin American development.

ECO 455 LAS ECONOMIAS LATINOAMERICANAS (5) (SS) Aspectos del desarrollo economico de los países latinoamericanos; enfoque en las fuerzas sociales, institucionales, y del mercado y sus efectos sabre los países en vias de desarrollo.

ECO 460-463 UNDERGRADUATE TUTORIAL (VAR) Supervised readings, individual tutorial, and preparation of reports. Requires consent of faculty supervisor and department chairman.

ECO 467 SEMINAR ON CURRENT ECONOMIC TOPICS (5) (W,S) Faculty and student discussion of contemporary economic and social issues.

ECO 507 MONETARY THEORY AND POLICY (5) (W) 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 510 ECONOMIC PROBLEMS OF EMERGING NATIONS (5) (W,SS) 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 307 or 308.)

ECO 520 URBAN AND REGIONAL ECONOMICS (5) Application of economic analysis to urban grawth and the urban-regional environment; consideration of public services, transportation, ghetto problems, and urban arganization; analysis of environmental protection problems and policies. (Recommended preparation: ECO 307, 308 or 319.)

ECO 531 ECONOMETRIC METHODS (5) Application of statistical methods to the estimation of simultaneous equation systems. Special topics including dynamic models, errors in variables, random coefficient regression. (Prerequisite: MAS 321/322. Recommended preparation, ECO 431.)

ECO 560-563 ADVANCED INDIVIDUAL STUDY (Variable) Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and department chairman. Open to seniars and graduate students.

ECO/MBA 606 MANAGERIAL ECONOMICS I (5) (F,W,S,SS) Basic microeconamic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries; basic aggregate economic models and forecasting.

ECO 626 MONEY AND MONETARY POLICY (5) (W) Monetary theory and its application; consideration of central banking in the U.S. and its relation to the international econom, money markets, and financial intermediaries; survey of current policy views.

ECO 660 INDIVIDUAL GRADUATE STUDY (5-10) (F,W,S,SS) Supervised readings, tutorial, and preparation of report. Open only ta graduate students. Requires consent of supervisor and approval of department chairman.

ECO 665 GRADUATE SEMINAR IN ECONOMIC THEORY (5) (F,W,S,SS) Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 666 GRADUATE SEMINAR IN APPLIED ECONOMICS (5) (F,W,S,SS) Variable-topic study group in application of economic analysis to specific problems. Open to students with graduate standing.

ENGLISH MAJOR

DEGREE: Bachelor of Arts

LOWER DIVISION REQUIREMENTS:

Required Courses: None

Remark: The prospective secondary school teacher should take the Faundations of Education courses in the lower division

UPPER DIVISION PROGRAM:

COURSE OFFERINGS

ENG 300-310 THEMES IN LITERATURE (5) (F,W,S,SS) Individual sections will read and discuss works relating to topics of current and enduring interest. 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.

ENG 311 EXPOSITORY WRITING (5) (F,W,S,SS) An advanced composition course in the techniques of exposition, argumentation, and persuasion. Special sections for the foreign-born.

ENG 312 REPORT AND TECHNICAL WRITING (5) (W,S) For business, professional, and scientific students needing practice in collecting, organizing, interpreting, and presenting factual material.

ENG 313 IMAGINATIVE WRITING (5) (F,W,S) Practice in developing individual creative expression and in appreciating that talent in others.

ENG 314 THE MOVIES (5) (F,S) Viewing and discussion of films, with attention to cinematic ways of story-telling and to the popular film as an expression of cultural values.

ENG 315 RESEARCH AND WRITING (3) (S,F) 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 os researching information, documentation, organization, revising rough drafts and presenting the final draft. The primary emphasis will be to use the student's own interests and background for explaring relevant topics upon which to write.

ENG 320 ENGLISH LINGUISTICS (5) (F,W) Study of the sounds, vocabulary, and sentence patterns of standard modern English. Other topics include meaning, social and regional dialects, language change, and style.

ENG 360-370 MAJOR LITERARY MODES (5) (F,W,S) Individual sections will read and discuss the literary expression of heroic, tragic, comic, satiric, mythic, realistic, or other formalized views of human existence. May be repeated.

ENG 380 SURVEY OF AFRO-AMERICAN LITERATURE (5) (S,F) Study of Afro-American Literature from Phyllis Wheatley to James Baldwin. The first half of the course will be concentrated on writers before World War II while the second half will be designed to give students the opportunity to study modern authors from 1920 to present.

ENG 400-410 MAJOR LITERARY GENRES (5) (F,W,S,SS) Individual sections will read and discuss the form and development of novels or dramas, poetry, short fiction, or such special kinds as biographies, folksongs and tales, or essays, among other genre. May be repeated.

ENG 415 WRITING POETRY (5) (F,W,S,SS) An intermediate course in writing poetry. Admission requires consent of the instructor.

ENG 416 WRITING FICTION (5) (F,W,S,SS) An intermediate course in writing fiction. Admission requires consent of instructor.

ENG 420 HISTORY OF THE FILM (5) Discussion, with examples, of the development of cinematic art from its European and American beginnings to its place as the major world art form.

ENG 421 RHETORIC AND POETICS (5) Ancient and modern theory and practice in discussing the formal properties of elevated language.

ENG 422 RHETORIC AND COMMUNICATION: BLACK RHETORIC (5) (F) Black people in America have been involved in several significant movements designed primarily to meet the challenges of institutionalized racism. While these movements generally were reactions to the negative actions of an external and alien non-black community, they were also responses initiated by a few blacks to meet the needs of a larger black population. 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 423 BLACK ENGLISH

ENG 431 SHAKESPEARE: COMEDIES (5) (F) Reading and informal dramatic interpretation of representative plays.

ENG 432 SHAKESPEARE: TRAGEDIES (5) (W) Reading and informal dramatic interpretation of representative plays.

ENG 433 SHAKESPEARE: HISTORIES (5) (S) Reading and informal dramatic interpretation of representative plays.

ENG 440-445 REGIONAL LITERATURE IN ENGLISH (5) Individual sections will discuss English writing in Ireland, Scotland, Wales, Canada, the Caribbean, India, sub-Saharan Africa, and Oceania, as well as distinctive regions in England and America. May be repeated.

ENG 450 LITERATURE AMONG THE ARTS AND SCIENCES (5) Individual sections will relate the study of literature to other disciplines in the humanities, fine arts, the social and natural sciences. May be repeated.

ENG 460 APPLIED LINGUISTICS (5) Linguistics in the classroom, English as a Second Language, Stylistics, Dialects.

ENG 498 INDEPENDENT STUDY (Variable) (F,W,S,SS) Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

ENG 499 SPECIAL TOPICS (Variable) (F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

ENG 500-510 MAJOR AMERICAN LITERARY FIGURES (5) (F,W,S,SS) Each section will consider the lifework of several authors such as Howthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Boldwin, or others.

ENG 511-520 MAJOR BRITISH LITERARY FIGURES (5) (F,W,S,SS) Each section will consider the lifework of on author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENG 521-530 PERIODS IN AMERICAN LITERATURE (5) (F,W,S,SS) Individual sections will read and discuss works in the context of such historical settings as the colonial, federal, ontebellum, reconstruction, and other periods of the American past. May be repeated.

ENG 531-540 PERIODS IN ENGLISH LITERATURE (5) (F,W,S) Individual sections will read and discuss works in the context of such historical settings as the medieval, Tudor, Restoration, Victorian, and other periods of the English past. May be repeated.

ENG 541-550 LITERARY MOVEMENTS (5) (F,W,S) Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, The Harlem Renaissance, and others. May be repeated.

ENG 552 MODERN ENGLISH GRAMMAR (5) (W) Practical study of syntax. ENG 307 is prerequisite, or consent of the instructor.

ENG 553 HISTORY OF THE ENGLISH LANGUAGE (5) (S) Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century down to modern times. ENG 307 is prerequisite, or consent of the instructor.

ENG 557 LITERARY CRITICISM AND SCHOLARSHIP (5) Techniques and goals of humanistic research, bibliography, and critical commentary.

ENG 560 STUDIES IN THE FILM (5) Advanced work in film criticism. Study of individual Directors.

ENG 598 INDEPENDENT STUDY (Variable) (F,W,S,SS) Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

ENG 599 SPECIAL TOPICS (Variable) (F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

ENG 698 INDEPENDENT STUDY (Variable) (F,W,S,SS) Individual conferences, assigned readings reports on independent investigations with the consent of the chairman.

ENG 699 SPECIAL TOPICS (Variable) (F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

FINE ARTS

ART MAJOR

DEGREE: Bachelor of Fine Arts

LOWER DIVISION PREPARATION

Required Courses: 6 semester hours of art survey; 12 semester hours of drawing and design or a portfolio of drawing and design to be presented during the first advisement session and reviewed by the art faculty.

Recammended Courses: painting, sculpture, printmaking, ceramics, photography, jewelry, weaving, cinemotography.

Remark: The student who does not have an Associate of Art degree and/or who lacks proficiency in drawing and design will be expected to take more than 90 quarter hours to complete the degree.

UPPER DIVISION PROGRAM

	Quarter Hours
Required Courses:	60
ARH 475 (Contemporary Art)	5
Art History Elective	5
Studio Art (minimum in one area)	20
Studio and Art History Electives	30
Electives:	30
	_
	90

COURSE OFFERINGS

ARH 305 SURVEY OF THE CONTEMPORARY ARTS (5) (F,W) A survey of the most recent developments in the fields of the visual arts, architecture, music, theatre, film, etc., lectures, films, speakers. Open to all students.

FIA 305 INTRODUCTION TO 2D STUDIO ART (5) (W) The student is encouraged to experience as broad a spectrum as possible; from drowing to relief printing and painting; from traditional anotomy and perspective to pure design in the contemporary sense. Open to all students.

FIA 306 INTRODUCTION TO 3D STUDIO ART (5) (S) A broad area of study in most of the three dimensional areas; modeling, carving, plastics, welding and wood. Open to all students.

FIA 315-515 DRAWING (5-5) (W,S) Drawing will be considered as an essential part of every art student's curriculum. Depending on his lower level work, a student will be encouraged to toke at least one drawing course at the University. Off-campus studio work may be arranged. (May be repeated).

FIA 316-416 FIGURE DRAWING (5-5) (F,W,S,SS) Drawing from the model during assigned studio time. Open to all students. (Moy be repeated).

FIA 325-425-525 PAINTING (5-5-VAR) (F,W,S,SS) A study through the use of visual oids and individual criticism of the student's work. Any medio on flot convas up to painted, fabricated sculpture may be used. (May be repeated).

FIA 335-435-535 SCULPTURE (5-5-VAR) (F,W,S) 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).

FIA 337-437-537 JEWELRY AND METALS (5-5-VAR) (F,W,S) A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore conceptual and technical possibilities of an individual metal. A shop will be ovailable for students. (May be repeated).

FIA 345-445-545 PRINTMAKING (5-5-VAR) (F,W,S) With a knowledge of basic etching and relief printing, the ort student will explore a specific media such as etching, lithography, silk-screen, and other experimental techniques. (May be repeated).

FIA 355-455-555 PHOTOGRAPHY (5-5-VAR) (F,W,S) With a knowledge of beginning developing, printing and use of a comera, the art student will pursue his own direction with a heavy emphasis on individual approach, print quality, use of equipment and criticism. (May be repeated).

FIA 357 INTRODUCTION TO FILMMAKING (5) (F,W) For the beginning student of filmmaking. Survey of the origins and development of cinematography as an ort form. Presentation and technical analysis of selected films.

FIA 358 FILM PRODUCTION I (5) (S) Conceptual study of total-filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined from the point of view of the director. Student will conceptualize, shoot and edit a short film. (Prerequisite: FIA 357 or permission of the instructor. May be repeated).

FIA 458 FILM PRODUCTION II (5) (S) Conceptual study of total-filmmaking. Equipment, procedures, locations, sets, actors and production stoff will be examined from the point of view of the director. Student will conceptualize, shoot and edit a short film. (Prerequisite: FIA 357 or permission of the instructor. May be repeated).

FIA 361 CERAMICS (5) (F,W,S,SS) A beginning course for art and non-art majors. Fundamentals of throwing, hand building, and glaze application.

FIA 465-565 CERAMICS (5-VAR) (F,W,S) The odvonced student will explore all aspects of expression in clay and glaze. Students are expected to be mostly self-directed. Prerequisite: FIA 361 or permission of the instructor. (May be repeated).

FIA 385-485-585 DIRECTED STUDY (VAR) (F,W,S,SS) A group of students, with the approval of the Art Department foculty, may select a master artist teacher and pursue a course of art study in selected areas such as gloss, graphic design, film, multi-media, environmental design, sound, etc. Arrangements must be made at least a quarter before course is offered. (May be repeated).

FIA 395-495-595 RESEARCH (VAR) (F,W,S,SS) Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of hours. (May be repeated).

ARH 416 ART OF CHINA & JAPAN (5) (F) An introduction to the art of China to the Ming Dynasty and Japan through the 18th Century. The emphasis will be on painting and sculpture with some ceramics and architecture.

ARH 435 GREEK AND ROMAN ART (5) (S) Lectures, slides, visitors and student research will be used.

ARH 455 RENAISSANCE ART (5) (W) Lectures, slides, visitors and student research will be used.

ARH 466 NINETEENTH CENTURY PAINTING (5) A study of the various challenges offered artists at the beginning of the nineteenth century and of subsequent solutions created by pointers in America, England, France, Germany and Italy. Styles such as neo-clossicism, romanticism, realism, eroticism, Pre-Raphaeliticism, luminism, impressionism and post-impressionism will be examined.

ARH 467 AMERICAN ART (5) (W) Lectures, slides, visitors and student research will be used.

ARH 475 CONTEMPORARY ART (5) (F) Lectures, slides, visitors and student research will be used.

ARH 476 MODERN ART (5) Lectures, slides, visitors and student research will be used.

ARH 477 SEMINAR IN ART CRITICISM (5) Readings and individual projects. Prerequisite: ARH 585 or permission of the instructor.

ARH 478 WOMEN AND ART (5) Women in the history of art; past, present and future. Slides, lectures, films, panels and discussions.

ARH 485-585 DIRECTED STUDIES (Var) A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as film, painting, sculpture, architecture, crafts, art history, multi-media art, etc. Arrangements must be made at least a quarter before course is offered. (May be repeated).

ARH 495-595 RESEARCH (Var) Art history, criticism and theory in areas not covered by the present program and in which the student wishes to study. (Permission of instructor, May be repeated).

MUSIC MAJOR

DEGREE: Bachelor of Music LOWER DIVISION PREPARATION:

Required courses: None

Recommended courses: 16 semester hours in music theory and 16 semester hours in applied music.

Remork: The student who does not have an Associate in Arts in Music or lacks proficiency in theory, sight singing, and performance in a major instrument will be expected to take more than 90 quarter hours of upper division work to complete the degree.

UPPER DIVISION PROGRAM:

APPLIED MUSIC

	Quart	ter Hours
Required Courses:		60
Theory (MUS 335, MUS 326, MUS 327)	15	
History (MUS 317, MUS 415, MUS 416 or MUS 417)	15	
Organizations (6 quarters)	12	
Conducting	2	
Applied (6 quarters)	12	
Recital and Research and Directed Study	Δ	
Electives:		30
		90
CONDUCTING		
Required Courses:		60
Theory	15	
History	15	
Organizations (6 quorters)	12	
Conducting	6*	
Applied (6 quarters)	12	
· · · · · · · · · · · · · · · · · · ·		
*The student is required to conduct a performing organi-		
zotion (a couple numbers, not a complete program) dur-		
ing his or her senior yeor.		
		20
Electives:		30
		90

THEORY AND COMPOSITION	Quarter Hours
Required Courses: Theory Composition History Organizations (5 quorters) Conducting	60 15 10 10 10
Applied (5 quarters or 5 hours applied and 5 hours composition lessons) Recital and Research and Directed Study	10
*The performance of an original composition with analysis or a lecture on a theoretical subject for the student body.	
Electives:	30
MUSICOLOGY	
Required Courses	60
Theory History Organizations (5 quarters) Conducting Applied (5 quarters)	15 20 10 2
Research	3*
*A lecture for the student body, port of the research requirement.	
Electives:	30
Liethves.	_
	90
TEACHER CERTIFICATION	N
Required Music Courses:	60
Theory	15
History Organizations (6 quarters)	15 12
Conducting	2
Applied (6 quarters)	12
Research and Recital Guitar (MUP 365)	2 2
Required Education Courses:	40
EDU 305 Schooling in America	5
EDU 311 General Teaching Lab I	5
EDU 312 General Teaching Lab II MUE 316 Special Teaching Lab I	5 5
MUE 416 Special Teaching Lab II	5
MUE 425 Student Teaching	15
	100

COURSE OFFERINGS

MUS 305 UNDERSTANDING AND ENJOYMENT OF MUSIC I (5) (F,S) A non-technical introduction to program music of the 19th century and folk/papular music of the 20th century.

MUS 306 UNDERSTANDING AND ENJOYMENT OF MUSIC II (5) (W,SS) A non-technical introduction to music before the 1800's and music of the 20th century. Comparisions of music up to and including electronic music.

MUS 307 EVOLUTION OF JAZZ (5) (F,W,S) The influx of Africa and Latin America on the development and styles of jazz music and its various exponents such as saul, blues, rack, etc.

MUS 315 MUSIC HISTORY SURVEY (5) (F)

A technical study of music from antiquity to 1850. Lectures an historical styles will be supplemented with recardings and analysis.

MUS 316 MUSIC HISTORY SURVEY (5) (W) A technical study of music from 1850 to the present. Lectures on historical styles will be supplemented with recordings and analysis.

MUS 317 TWENTIETH CENTURY MUSIC — EXPLORATION (5) (F,S) An exploration study of music since 1900. Lectures an style plus demonstration will be supplemented with recordings and analysis. Elements of the popular idiom will be investigated.

MUS 325 MUSIC THEORY II (5) (F,W,S) Designed for students to develop their skills in or to review basic theory, harmony, sightsinging and ear training. Prerequisite: The music theory content of MUS 328 or equivalent.

MUS 326 COUNTERPOINT (5) (F,S) With a background of basic theory, harmony and ear training, the student will study linear writing through species counterpoint and its comparison with the 18th century harmonic idioms as well as polyphonic and homophonic idioms of the 14th through the 20th centuries.

MUS 327 FORM AND ANALYSIS (5) (W,S) With a background of counterpoint, the student will study the analysis of phroses, binary and ternary song forms, variation, rondo, sonatina and sonata — allegro forms, cyclic and free forms of Western culture music. Particular emphasis will be placed on 20th century compositions.

MUS 328 MUSIC THEORY I (5) (F,W,S,SS) A music theory course, designed to provide a basis in the camposition and analysis of tanal music, particularily that of twentieth century popular styles.

MUS 335 CHORAL TECHNIQUES (5) (F,W,S,SS) A course designed to strengthen and build the student's ability to write and perform Melodic, Harmonic and Keybaard dictation. It will also provide a rhythm pattern sequence necessary to write and understand the modern idiom of scare reading, analysis and transposition.

MUS 385-585 DIRECTED STUDY (1-5) (F,W,S,SS) Designed for students to provide areas of exploration and specialization beyond the basic selected study programs such as electronic music, religious music literature, sound techniques, etc.

MUS 395, 495, 595 RESEARCH (1-5) (F,W,S,SS) Research composition or performance projects under the guidance and direction of the music faculty. (May be repeated.)

MUS 415 HISTORY AND LITERATURE OF OPERA (5) (S) Chronological survey of opera literature from the 17th century to present day. Analysis and performance of representative works.

MUS 416 SYMPHONIC LITERATURE (5) (SS) Survey of symphonic literature from the 17th century to present day. Analysis and illustrations of representative works.

MUS 417 KEYBOARD LITERATURE (5) (5) Study of solo works and concertos from the 17th century to present day. Stylistic analysis and performance practices with illustrations of representative works.

MUS 425 ORCHESTRATION (5) (W,S) With a background of basic theory, the student will explore the techniques of writing and arranging for instruments in performing arganizations and choral groups.

MUS 426 TWENTIETH CENTURY THEORY — COMPOSITION (5) (F,W) This course will analyze and campose warks using the following pracedures: melodic-harmonic techniques developed in the late nineteenth century, serial, improvisational and those derived from the use of electronic devices as performance media. Prerequisites: Survey of Basic Music, and Counterpoint.

MUS 435 BASIC CONDUCTING (2) (F,S,SS) A basic conducting course to gain fundamental techniques and interpretation. A prerequisite far both advanced instrumental and charal conducting.

MUS 436 INSTRUMENTAL CONDUCTING (2) (S)

With a background in basic theory and having performed in arganizations, the student will develop a knowledge of baton technique, score reading and interpretation. Prerequisite: Basic Conducting.

MUS 437 CHORAL CONDUCTING (2) (W) With a background in basic theory and hoving performed in organizations, the student will develop techniques of group conducting including madrigal, glee, choir, etc. A survey of choral literature will be included. Prerequisite: Basic Canducting.

MUS 485 RECITAL AND RESEARCH (2) (F,W,S,SS) All music majors, before graduation, must present at least one half of a public recital and pass an oral examination on the music programmed.

MUS 517 TWENTIETH CENTURY MUSIC "NEW DIMENSIONS" (4) (W,SS) 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.

MUS 526 ARRANGING (4) (W,SS) A practical course in arranging with a definite theory approach to meet the high school needs.

MUS 534 ADVANCED CONDUCTING TECHNIQUES (2) (W,SS) An extension of Form and Analysis with interpretation both in Instrumental and Charol Conducting. Twentieth Century scoring and symbol interpretation will be studied in depth with actual conducting experience required.

MUP 305,405,505 UNIVERSITY SINGERS (VAR) (F,W,S) A chorus performing repertoire primarily from great choral works. Large orchestral accompaniment as well as various instrumental ensembles will be utilized.

MUP 307,407,507 COLLEGIATE CHORALE (VAR) (F,W,S,SS) A small ensemble of selected mixed voices performing repertoire of the modern popular idiom. Miniature contemporary accompaniment will be utilized.

MUP 315,415,515 ORCHESTRA (VAR) (F,W,S,SS) An instrumental ensemble performing works from the symphonic repertory. Previous experience and permission of conductor.

MUP 317,417,517 WIND ENSEMBLE (VAR) (F,W,S,SS) A group of wind and percussion instrumentalists. Permission of conductor.

MUP 325,425,525 STUDIO JAZZ (VAR) (F,W,S,SS) An ensemble to provide creative professional level experience in the contemporary popular idiom.

MUP 327,427,527 CHAMBER MUSIC (VAR) (F,W,S,SS) Small ensemble in the performing of Chamber Music literature. Permission of conductor.

MUP 335,435,535 APPLIED MUSIC — BRASS (1-2) (F,W,S,SS) Individual instruction in applied music on trumpet, French horn, trombone, baritone horn or tuba.

MUP 345,445,545 APPLIED MUSIC — PERCUSSION (1-2) (F,W,S,SS) Individual instruction in applied music on all percussion instruments.

MUP 355,455,555 APPLIED MUSIC — PIANO/ORGAN (1-2) (F,W,S,SS) Individual instruction in applied music on piono or organ.

MUP 365,465,565 APPLIED MUSIC — STRINGS (1-2) (F,W,S,SS) Individual instruction in applied music on violin, viola, cella, string bass, guitar or harp.

MUP 366 GUITAR SKILLS (5) (F,W,S,SS) Emphasis on music reading and elementary techniques. Open to all Florida International University students.

MUP 367 INTERMEDIATE GUITAR SKILLS (5) (F,W,S,SS) Emphasis on technique and styles such as calypso, folk, blues, classical and jazz. Open to all Florida International University students.

MUP 375,475,575 APPLIED MUSIC — VOICE (1-2) (F,W,S,SS) Individual instruction in applied music in voice.

MUP 385,485,585 APPLIED MUSIC — WOODWINDS (1-2) (F,W,S,SS) Individual instruction in applied music on flute, oboe, clarinet, bassoon or saxophone.

THEATRE MAJOR

DEGREE: Bachelor of Fine Arts in Theatre

LOWER DIVISION PREPARATION:

Required Courses: Three semester hours each in acting and stagecraft. Equivalent life experience is acceptable upon approval.

Recammended Caurses: Three-Six semester hours in dance; three semester hours in voice for the stage; three semester hours in costuming; three semester hours in stage lighting; three-six semester hours in Theatre workshop.

UPPER DIVISION PROGRAM:

The Theatre Pragram is production oriented. A student entering the program may elect to specialize in one of the following three areas: Performance (Acting-Directing), Production (Design-Technical Theatre) or Film. In addition to satisfactory completion of all course work, a Theatre major is required to participate (within his or her area of specialization) in at least half of all major productions presented during enrollment in the Theatre Program.

	Quarter Hours
Required Courses:	60
Theatre courses	50
Theatre History	10
Non-Theatre Electives:	30
	_
	90

COURSE OFFERINGS

(by area of specialization)

PERFORMANCE (Acting/Directing)

DAN 315 DANCE (5) (F,S) Basic stage movement. Development of the body as an instrument of expression. (May be repeated)

DAN 415 DANCE (5) (F,S) With some basic stage movement experience, the student will do movement studies to develop impulses to rhythm and melody patterns. (May be repeated.)

THE 315 VOCAL TECHNIQUES (2) (F) Development of breath control, diction, resonance and related vocal music techniques. (For Theatre Majors anly.)

THE 316 BASIC ORAL INTERPRETATION (5) (F) Development of the voice as an instrument for expressive interpretation of literature.

THE 317 ACTING (5) (W,S,SS) With a fundamental knowledge of stage nomenclature, vocal and physical performance skills, audition and rehearsal techniques, the student will facus on developing a character within a particular acting style. Extensive study and practice in scenes from period plays. (May be repeated)

THE 417 ACTING (5) (F,W) With a thorough knowledge of all aspects of the actor's craft and a highly mativated background of performance experience, the actor will concentrate an refinement of ensemble playing techniques in a total performance situation which will be presented for an audience. (May be repeated.)

THE 325 DIRECTING (5) (W) A study of fundamental directing principles. Areas included will be: choice of play and its analysis, casting, blocking, rehearsal techniques and coordination of cast and production personnel. Students will direct short scences for performance. (May be repeated.)

THE 425 DIRECTING (5) (S) With a broad understanding of basic directing skills and some directing experience, focus will be on methods of unifying all production elements toward the finished performance. Students will direct a play for public performance. (May be repeated.)

PRODUCTION (Design/Technical Theatre)

THE 335 STAGECRAFT (5) (F) A lecture-laboratory course covering the basic elements of scenery construction, painting, rigging and stage properties.

THE 435 STAGECRAFT (5) (F) Advanced studies of the scene technician's craft with emphasis on the creative use of modern materials and methods. Selection and cost of materials, multi-media effects, sound effects, advanced stage carpentry and stagecraft supervision will be covered.

THE 336 STAGE LIGHTING (5) (S) The study of elementary electricity, lights and circuits; basic techniques of designing and executing lighting for the stage.

THE 337 STAGE MAKEUP (5) (F) Fundamentals of straight and character makeup. The application of principles governing line, color, light and shade to makeup. Practical experience through production participation.

THE 345 THEATRE DESIGN (5) (W) Fundamentals of design for the theatre. Included are methods of analysis and research, technical drawing and rendering.

THE 445 THEATRE DESIGN (5) (S) With a knowledge of the fundamentals theatre design, the student will survey historical styles and work with advanced directing students to design and execute scenery for a play.

THE 431 STAGE COSTUMING (5) (F) Study of period costume design with emphasis an research techniques, design adaptation, cut fabric, and decarative detail for stage costume.

THE 432 STAGE COSTUMING (5) (W) A continuation of THE 531. Applied studies in design adaptation, pattern drafting and total costume.

FILM

THE 357 INTRODUCTION TO FILMMAKING (5) (F,W,SS) 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 358 FILM PRODUCTION I (5) (W) Conceptual study of total-filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined from the point of view of the director. Student will conceptualize, shoot and edit a short film. (Prerequisite: THE 357 or permission of the instructor. May be repeated.)

THE 458 FILM PRODUCTION II (5) (S) Conceptual study of total-filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined from the point of view of the director. Student will conceptualize, shoot and edit a short film. (Prerequisite: THE 358 or permission of the instructor. May be repeated.)

SUPPLEMENTARY ELECTIVES

SPE 305 PUBLIC SPEAKING (5) Study of the principles of ethical and effective public speaking with proctice in the construction and delivery of original speeches before an audience. (For non-theatre majors only)

THE 305 SURVEY OF THE THEATRE ARTS (5) A consideration of all the dramatic elements of the theatre; television, film and live theatre. Designed for the non-theatre student to generate an awareness and appreciation of the theatre. (For non-theatre majors only)

THE 328 CHILDREN'S THEATRE (5) Techniques of selection, production and performance of plays for children.

THE 339 BLACK THEATRE TECHNIQUES (5) Study and proctice of production methods unique to the Black performer and Black Theatre; i.e., making-up and lighting the Black performer, play selection, rehearsal techniques. (May be repeated.)

THE 427 CREATIVE DRAMATICS (5) The study of informal drama activity for children. Techniques of improvisation, sense recall, music and movement are employed. Permission of the instructor required.

THE 451 DEVELOPMENT OF THE THEATRE (5) A survey of theotre architecture, modes of production, major figures and trends in the theatre from its origins to Turgenev.

THE 452 DEVELOPMENT OF THE THEATRE (5) A continuation of THE 551. Survey will be from Turgenev to the present.

THE 455 DEVELOPMENT OF BLACK THEATRE IN AMERICA (5) A historical survey of the Black performer in America, Primary emphasis on current trends in Black Theotre.

THE 465 PLAYWRITING Study of the theory and principles of writing plays for the stage. Practice in writing either the short or long play. (May be repeated.)

THE 475 THEATRE MANAGEMENT (5) Bosic studies in methods of audience promotion and service, i.e., publicity, box office and house management.

THE 485 PERFORMANCE AND PRODUCTION (VAR 1-15) Supervised work in actual university, community, or professional theotre production on on internship bosis. Credit will vary with amount of time and responsibility involved. (If taken for less than maximum credit, may be repeated for a total of not more than 15 quorter hours.)

THE 495 RESEARCH (1-5) Supervised individual investigation of special research projects. Credit will vory with the nature and scope of the project. (May be repeated.)

GRADUATE COURSES

THE 585 PERFORMANCE AND PRODUCTION (1-15) (F,W,S,SS) Supervised work in actual university, community, or professional theatre production on an internship bosis. Credit will vary with amount of time and responsibility involved. (If token for less than maximum credit, may be repeated for a total of not more than 15 quarter hours.)

THE 595 RESEARCH (1-5) (F,W,S,SS) Supervised individual investigation of special research projects. Credit will vary with the nature and scape of the project. (May be repeated)

HISTORY MAJOR

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: None

Remark: 6 semester hours of advanced history courses may be counted toward the upper division major.

UPPER DIVISION PROGRAM:

	Quarter Hours
Required Courses:	45
HIS 301 Introduction to History	5
Courses in the following areas:	
Medieval History	5
Modern European History	5
U.S. History	5
Asian, African, Latin American or	
Caribbean History	5
General History Courses	20
Electives:	45
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	90

COURSE OFFERINGS

HIS 301 INTRODUCTION TO HISTORY (5) (F,S) A study of why and how people read and write history. Emphasis will be upon the uses of history and historions' assumptions. Required of all majors and those seeking certification to teach history.

HIS 304-305 ANCIENT HISTORY (5,5) (W,S) An examination of the society, politics, literature and arts of Greece and Rome.

HIS 310-311 MEDIEVAL EUROPEAN HISTORY (5,5) (F,W) An exomination of European life, culture and ideos from the fall of the Roman Empire to the Renaissance.

HIS 313-314 EARLY MODERN EUROPEAN HISTORY (5,5) (W,S) An examination of European civilization from the sixteenth century to the French Revolution.

HIS 316-317 MODERN EUROPEAN HISTORY (5,5) An examination of Europe from the French Revolution to the twentieth century.

HIS 320-321 EARLY UNITED STATES HISTORY (5,5) (F,W) An examination of American society from the earliest settlements to the Revolutionary Ero up through the Jacksonian period.

HIS 323-324 MODERN UNITED STATES HISTORY (5,5) (W,S) An examination of American society from the rise of Industrialism to the 1960's.

HIS 330-331 EARLY LATIN AMERICAN HISTORY (5,5) (F) An examination of Latin American societies and civilizations from the pre-colonial period to the national revolutions.

HIS 333-334 MODERN LATIN AMERICAN HISTORY (5,5) (W) An examination of Latin American society and civilizations from the 1850's to the present.

HIS 340-341 RUSSIAN HISTORY (5,5) An examination of Russian society and politics from the Kievian period, through the Medieval Era to the foundation of the Soviet Union.

HIS 360-361 AFRICAN HISTORY (5,5) An introductory examination of various aspects of different African societies, cultures and nations.

HIS 375-379 REGIONAL AND NATIONAL HISTORY: EUROPE (5) A study of the histories of a porticular country or area of Europe, Germany, France, England, etc. The subject motter will change quarterly. (See the quarterly course listing for the country under study).

HIS 380-384 REGIONAL AND NATIONAL HISTORY: U.S. AND CANADA (5) A study of the history of the particular countries or areas of Anglo- and Franco North Americo, the South, the Great West, Quebec, etc. The subject motter will change quarterly. (See the quorterly course listing for the country under study).

HIS 385-389 REGIONAL AND NATIONAL HISTORY: LATIN AMERICA (5) A study of the histories of a particular country or area of Latin America, Mexico, the River Plott, the Caribbean, etc. The subject matter will change quarterly. (See the quarterly course listing for the country under study).

HIS 395-396 REGIONAL AND NATIONAL HISTORY: AFRICA (5) A study of the histories of a particular country or region of Africa, West Africa, East Africa, Nigeria, etc. The subject matter will change quarterly. (See the quarterly course listing far the country under study).

HIS 397-398 SPECIAL TOPICS (Variable) (F,W,S,SS) A course designed to give groups of students on opportunity to pursue special studies not atherwise affered. Requires consent of the chairman.

HIS 399 INDEPENDENT STUDY (Variable) (F,W,S,SS) Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

HIS 405-409 POLITICAL HISTORY (5) (W,S) An exomination of political parties, factions and their relationship to history. Each time this course is offered it will focus upon a specific political problem, party, etc., of a particular nation or society during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 410-414 INTELLECTUAL HISTORY (5) (W,S) An examination of the ideas and images that have governed men and that men have used to understand their own actions in various historical contexts. Each time this course is offered it will facus upon specific problems (Puritanism, Humanism, etc.) of a particular nation or culture during one historical epoch. With a change in content ar prafessor, this course may be repeated.

HIS 415-419 SOCIAL HISTORY (5) (F,W,S) An examination of social forces, classes and institutions and their impact upon historical events. Each time this course is offered it will focus upon a specific social institution or problem of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 420-424 CULTURAL HISTORY (5) (F,W,S) An examination of the arts and their relation to history. Each time this course is offered it will focus upon particular artistic expression (painting, jazz, etc.) of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 425-429 ECONOMIC HISTORY (5) An examination of economic forces, institutions, thoughts, systems; their impact upon history. Each time this course is offered it will focus upon a particular economic problem of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 435-439 RACIAL AND ETHNIC HISTORY (5) (W) An examination of particular races and ethnic groups and their impact upon different cultures and societies; it will also focus upon immigration, etc. With a change in content or professor, this course may be repeated.

HIS 445-449 CONTEMPORARY HISTORY (5) An examination of particular problems, influences and events in contemporary world. With a change in content or professor, this course may be repeated.

HIS 450-454 PSYCHOHISTORY (5) (F,W) An examination of the concept of the self and individual identity, of mental and social deviance in different historical contexts. With a change in content or professor, this course may be repeated.

HIS 455-459 INDIVIDUALS AND HISTORY (5) An examination of particular individuals and their roles in a society. Each time this course is offered it will focus upon a specific individual or group of individuals of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 460-464 LABOR HISTORY (5) (F) An examination of labor and workers and their impact upon historical events. Each time this course is offered it will focus upon specific problems of labor in particular nations or societies during the historical epoch. With a change in content or professor, this course may be repeated.

HIS 470-474 RELIGION IN HISTORY (5) (F,W) An examination of religious ideas and religious institutions in history. Each time this course is offered it will focus upon a particular church, religion, etc. With a change in content or professor, this course may be repeated.

HIS 475-479 EDUCATION IN HISTORY (5) (S) An examination of the concepts of childhood and process of social initiation in differing historical contexts. With a change in content or professor, this course may be repeated.

HIS 497-498 SPECIAL TOPICS (VAR) (F,W,S) A course designed to give groups of students on opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

HIS 499 INDEPENDENT STUDY (VAR) (F,W,S) Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

HIS 599 INDEPENDENT STUDY (VAR) (F,W,S) Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

HUMANITIES MAJOR

DEGREE: Bochelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses: art, foreign languages, philosophy, English, history, religion, drama, music.

UPPER DIVISION PROGRAM:

	Quorier nours
Required Courses:	60
15 quarter hours in each of 4 areas chosen from the following:	
English, Fine Arts, History, Modern Languages, Philosophy.	
Electives:	30
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	90

Quarter House

INTERNATIONAL RELATIONS

The College of Arts and Sciences, through its Pragram in International Relations, offers the fallowing courses:

INR 301 FOUNDATIONS IN INTERNATIONAL RELATIONS (5) An examination of the international palitical, economic, and social systems. Emphasis is placed on basic approaches to the study of international relations.

INR 312 ISSUES AND PROBLEMS IN INTERNATIONAL RELATIONS (5) Examines selected world and regianal issues and problems. Topics vary according to the instructor.

INR 323 THE FUTURE OF THE INTERNATIONAL SYSTEM (5) Explores probable and imprabable international futures through the use of simulations, gaming, and speculative literature. Focuses upon alternatives to present international arrangements.

INR 333 INTERNATIONAL RELATIONS OF THE MIDDLE EAST (5) An examination of the international social, economic, and political life of the Middle East. The role of oil in the region will receive special attention.

INR 334 WORLD REGIONAL GEOGRAPHY (5) A systematic survey of the major regions, and countries, of the world with regard to their physical, cultural, and political characteristics. Emphasis upon climate, natural resources, economic development, and population patterns.

INR 344 INTERNATIONAL RELATIONS OF THE CARIBBEAN (5) An examination of the international social, economic, and political life of the Caribbean. Includes English, Spanish, and French speaking regions.

INR 345 POPULATION AND SOCIETY (5) Introduction to basic demagraphic concepts: fertility, mortality, migration, urbanization. Economic development, modernization and population change. Sources of data and background information; censuses, vital statistics, and their utilization.

INR 351 POPULATION AND GEOGRAPHY OF THE SOVIET UNION (5) An analysis of the U.S.S.R. in terms of its resources, economic development, and aspects of population change such as migration, urbanization, and nationality groups.

INR 356 TOURISM AND INTERNATIONAL AFFAIRS (5) An introduction to basic elements of international tourism; an inquiry into the trans-national influence of tourism as affected by its institutional organization, by the leisure traveler, and by the hast national; and a review of opportunities far policy-making by the group, the State, international and global agencies.

INR 362 POPULATION AND GEOGRAPHY OF LATIN AMERICA (5) Introduction to the physical, cultural, and political geography of Latin America. Emphasis on population patterns and problems of population grawth, systems of land use and tenure, economic development, natural resources, and agriculture.

INR 373 POPULATION AND GEOGRAPHY OF THE MIDDLE EAST (5) Introduction to the physical, cultural, and political geography of the Middle East, with special attention given to the State of Israel. Emphasis on population patterns, natural resources, and economic development.

INR 407 INDEPENDENT STUDY (VAR)

INR 453 ETHNICITY AND NATIONALITY: WORLD PATTERNS AND PROBLEMS (5) A systematic survey of multinational states and their current political and sociaecanamic situations. The concept of ethnicity and its carrelates. Conceptual basis of ethnic integration, assimilation, and stratification. The macro and micro scales: country, region, city, neighborhood. The consequences of modernization and economic development.

INR 456 WORLD POPULATION PROBLEMS (5) Analysis of problems of populatian 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: Population and Society.

INR 461 TOPICS IN INTERNATIONAL RELATIONS (5) Varies according to the instructor.

INR 467 ALTERNATE TOURISM SCENARIOS AND STRATEGIES (5) A course for the student familiar with tourism in the context of international affairs; tourism as migratory aspect, tourism as international medium, tourism and the export of technology, tourism and national dependency, the marketing of globalism through tourism; others. The course includes a strategies laboratory.

INR 471 INTERNATIONAL COMMUNICATION (5) The course will explore language as the medium of national and international communication, in its multiple and often conflicting roles of unifier and isolator of political and social entities.

INR 518 INDEPENDENT STUDY (VAR)

INR 572 TOPICS IN INTERNATIONAL RELATIONS (5) Varies according to the instructor.

LIBERAL STUDIES MAJOR

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses: Arts and Sciences concentration recommended

UPPER DIVISION PROGRAM:

No more than 30 quarter hours taken in courses offered by academic units other than the College of Arts and Sciences may be counted towards the degree.

The Liberal Studies Program allows the student to take a wide selection of courses in the process of completing the requirements of a Bachelor of Arts. The student may in effect graduate with a multi-disciplinary educational experience.

MATHEMATICS MAJORS MATHEMATICS, STATISTICS, COMPUTER SCIENCE

DEGREE: Bachelor of Science

MATHEMATICS

LOWER DIVISION PREPARATION:

Required Courses: Calculus including Multivariable Calculus; introductory course in Computer Programming; Linear Algebra.

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: MAS 301-302-303 (Calculus), MAS 311 (Pragramming), and MAS 345 (Linear Algebra).

UPPER DIVISION PROGRAM:

Najor:	Quar	ter Hours
Required Courses:		45
MAS 480 Algebraic Structures	5	
At least two of the following two-term sequences:	10	
MAS 331-332 Introduction to Mathematical Statistics	10	
MAS 425-426 Mathematical Methods in the Physical Sciences	10	
MAS 451-452 Real Analysis	10	
MAS 471-472 Mathematical Techniques of Operations Research	10	
MAS 480-481 Algebraic Structures	10	
MAS 521-522 Probability Theory		
Additional MAS courses	20	
Electives:		45
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		90

Remarks: (1) If MAS 331-332 is not completed, MAS 335 must be taken as a nan-major elective. (2) The student must consult his or her advisar at the University to determine which MAS courses, in a required courses specified above, satisfy the requirements for a mathematics major. (3) The sinterests are more directly in statistics or camputer science should consult those programs of stubelow.

Minor:	Quarter Hours
Required Courses:	35
MAS 301-302-303 — Calculus I, II, III	15
MAS caurses approved for the Mathematics Major program	20
	35

Remarks: No MAS caurses can be applied to more than one minor nor can caurses used to satisfy major requirements be used towards minor requirements. In the case where an MAS 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 requirements of the minor.

STATISTICS

LOWER DIVISION PREPARATION:

Required Courses: Calculus including Multivariable Calculus; introductory course in Computer Programming; Linear Algebra.

Remarks: If an entering statistics major student has not met a lower division requirement, the equivalent course must be taken at the University, and will be counted as a non-major elective. The equivalent courses are: MAS 301-302-303 (Calculus); MAS 311 (Programming); MAS 345 (Linear Algebra).

UPPER DIVISION PROGRAM:

Major:	Quarter Hours
Required Courses:	45
MAS 331 Probability and Statistics I	5
MAS 332 Probability and Statistics II	5
MAS 335 Introduction to Statistical Analysis I	5
MAS 336 Introduction to Statistical Analysis II	5
Additional statistical courses	15
Additional MAS courses	10
Electives:	45
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	90

Remarks: Statistics courses are listed under Mathematical Sciences (MAS). The student must consult his or her advisor at the University to determine which MAS courses, in addition to the required courses listed above, satisfy the requirements for a statistics major.

Minor:	Quarter Hours	
Required Courses:		20
MAS 331-332 Introduction to Mathematical Statistics I and II	10	
MAS 335-336 Introduction to Statistical Analysis I and II	10	
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		20

Remarks: No MAS 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 an MAS 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 requirements of the minor.

COMPUTER SCIENCE

LOWER DIVISION PREPARATION:

Required Courses: Computer Programming in assembly language and in some high level language.

Remarks: If an entering computer science major student does not have the equivalent background, he or she may be required to take some or all of the following courses as non-major electives: MAS 311 (Computer Programming); MAS 312 (Assembly Language Programming); MAS 315 (COBOL and Data Processing).

Recommended Courses: College algebra

Remarks: The student who has not taken college algebra should take MAS 317 Elementary Mathematics as his or her first mathematics course at the University.

UPPER DIVISION PROGRAM:

Major:	Quarter Hours
Required Courses:	45
MAS 321 Calculus for Management and Social Sciences	5
or	
MAS 301-302 Calculus I-II	10
MAS 322 Statistics for Management and Social Sciences	5
or	
MAS 335 Introduction to Statistical Analysis	5
MAS 375 Discrete Mathematics	5
Additional computer sciences courses	30
Electives:	45
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	90

Remorks: Computer Science courses are listed under Mathematical Sciences (MAS). The student must consult his or her advisor at the University to determine which MAS courses, in addition to the required courses specified above, satisfy the requirements for a computer science major.

Minor:	Quarter Hours
Required Courses:	25
MAS 311*-312* Introduction to Computers I-II	10
MAS 313 Advanced Programming Languages	5
or	
MAS 315° Introduction to Data Processing and COBOL	5
MAS 377 Data Structures	5
MAS 415 Systems Programming	5
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	25

*This course may be replaced by equivalent lower divisian coursework. However, a minimum of 20 quarter hours must be taken in computer science at the University, and must be selected from those courses approved for the computer science major program.

Remorks: No MAS 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 an MAS course is required for a major in one area and a minor in another, the student should see his ar her advisor for an appropriate substitution for the requirements of the minor.

COURSE OFFERINGS

MAS 300 INTRODUCTION TO COMPUTER PROGRAMMING (3) (F,W,S,SS) An introduction to the BASIC computer language and to the use of the interactive and batch facilities of the computer.

MAS 301-302 CALCULUS I-II (5-5) (F,W,S,SS) An introduction to the basic concepts, computations, and applications in the calculus. The first course deals with basic concepts, techniques and applications of the derivative and an introduction to the integral. The second course deals with integration techniques and applications of the integral, an introduction to multivariable calculus, infinite series, and Taylor series.

MAS 303 MULTIVARIABLE CALCULUS (5) (S,SS) 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; Green's and Stokes' Theorems. Prerequisite: MAS 302 (ar equivalent).

MAS 304 QUANTITATIVE METHODS FOR ADMINISTRATION I (5) {F,W,S,SS} The use of statistical tools in management. Starting with an intraduction to probability, the course provides an introduction to a wide range of statistical techniques used in management sciences. It includes descriptive statistics, statistical inference, testing of hypotheses, regression and correlation analyses, and special topics such as construction of index numbers and time series analysis. The use of quantitative tools in management. Statistical methods, testing, and other quantitative applications to management are drawn together to provide tools for management efficiency.

MAS 305/BUA 305 QUANTITATIVE METHODS FOR ADMINISTRATION II (5) (F,W,S,SS) Continuation of MAS 304.

MAS 307-308 INTRODUCTION TO STATISTICS I-II (5-3) (F,W,S,SS) A course in descriptive statistics treating topics in basic probability and distributions, point and interval estimation, testing hypothesis, linear regression and correlation.

MAS 309 THE SIGNIFICANCE OF MATHEMATICS (5) (W) A course for non-science majors directed toward students with little or no assumed background in mathematics. The objective is to convince the student that mathematics is fun, interesting and useful. Tapics may include: logical reasoning, unsolved problems of arithmetic, probability and statistics, geometry, tapology, computers.

MAS 310 COMPUTERS AND SOCIETY (5) (S) A course for the citizen who is interested in the effects of computers upon our society. The major focus will be upon social, palitical and ethical considerations: what computers are; 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 taward 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.

MAS 311 INTRODUCTION TO COMPUTERS I (5) (F,W,S,SS) A course in the fundamentals of digital camputer programming. The concept of an algorithm; flow charting; programming; testing and debugging. Numerical and non-numerical techniques. The syntax and semantics of FORTRAN IV.

MAS 312 INTRODUCTION TO COMPUTERS II (5) (W,S) Principles and techniques of digital computers, with emphasis on machine longuage 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: MAS 311 or equivalent.

MAS 313 ADVANCED PROGRAMMING LANGUAGE (5) (F,S) Examination of higher level, procedure oriented programming languages such as ALGOL 60, SNOBOL 4 and APL with emphasis on such concepts as recursion, dynamic storage, allocation, parallel structure operations, string manipulation, block structure and others of special significance to contemporary and future programming languages and techniques. Prerequisite: lower division EDP major, MAS 312 or concurrent enrollment in MAS 317.

MAS 314/COT 302 COMPUTER HARDWARE FUNDAMENTALS (5) (W,SS) This course concentrates on two major areas. The first considers computer number systems, logic gates and Boolean algebra. The second treats the orithmetic element, computer memories, input-output and computer organization. Emphasis is placed on the latter topics. Prerequisite: MAS 375.

MAS 315 INTRODUCTION TO DATA PROCESSING AND COBOL (5) (F,S) A second course in programming oriented toward data processing applications. Various techniques for organizing and processing files: Sequential random-access, indexed and inverted files. File sorting and maintenance. Program documentation. Instruction in the COBOL programming language. Applications of computers and data processing in business. Prerequisite: MAS 300 or MAS 311.

MAS 316 INTRODUCTION TO COMPUTERS AND COMPUTER APPLICATIONS (2) (F,W,S,SS) A survey of computers and their applications: hardware, software, computer system operation, advanced computer systems, acquiring and using computer power, systems analysis, computer import on society. This course is designed to be tought to the community-at-large vio TV. Not acceptable for credit to Mathematical Science majors (mothematics, computer science, statistics).

MAS 317 ELEMENTARY MATHEMATICS (5) (F,W,S,SS) The topics to be covered include a review of basic arithmetic operations; a review of elementary algebra such as addition, multiplication and simplication of algebraic expressions, solution of equations and inequalities, exponents; introduction to functions and graphs; exponentials and logarithms; trigonometric functions.

MAS 318 GEOMETRY (5) (W) A study of the basic structure of Euclidean Geometry together with topics from advanced Euclidean Geometry and non-Euclidean Geometry. Prerequisite: None.

MAS 321 CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES (5) (F,S) An elementary introduction to the basic notions of calculus that are used to study problems in the management and social sciences. Specific topics include: differential calculus and its application to optimization problems; integral calculus with area and probability applications. Prerequisite: MAS 317 or working knowledge of algebra.

MAS 322 STATISTICS FOR MANAGEMENT AND SOCIAL SCIENCES (5) (W,SS) Introduction to the bosic notions of probability and statistics that are used to study problems in the management and social sciences. Topics include: bosic probability, random variables, sampling, estimation, hypothesis testing. Prerequisite: MAS 321 or other calculus course.

MAS 325 DIFFERENTIAL EQUATIONS (5) (F,S) An introduction to differential equations and their applications based upon a knowledge of the colculus. Topics to include initial value problems of the first order, numerical solutions, systems of differential equations, linear differential equations of the second order, Laplace transforms, series solutions. Prerequisite: MAS 302. Corequisite: MAS 300 or MAS 311.

MAS 331-332 INTRODUCTION TO MATHEMATICAL STATISTICS I-II (5-5) (W,S) This course presents an introduction to the mathematics underlying the concepts of statistical analysis. It is based on a solid grounding in probability theory, and requires a knowledge of single and multivariable calculus. Numerical aspects of the course using the computer and laboratory experience is an integral part of the course. Specific topics include the following: basic probability concepts, random variables, probability densities, expectations, mament generating functions, sampling distributions, decision theory, estimation, hypothesis testing (parametric and non-parametric), regression, analysis of variance, and design of experiments. Prerequisite: MAS 303.

MAS 335-336 INTRODUCTION TO STATISTICAL ANALYSIS I-II (5-5) (F,W) This course presents a wide range of statistical tools which are useful in the analysis of data. Stress is placed on where, when, and how these techniques are used. Computer and laboratory work is an integral part of the course. It is assumed that the student has had an introductory course in statistics or has had some exposure to colculus. Specific topics include: use of normal distribution, tests of means, variances and proportions, the analysis of variance and covariance (including orthogonal contrasts, components of variance models and analysis of experiments), regression, correlation, probability plotting, sequential analysis, non-parametric statistics and transformation techniques. Prerequisite: First course in calculus or first course in statistics.

MAS 338 STATISTICAL MODELS IN SCIENCE AND BUSINESS (5) (S) This course 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 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, and testing distributional assumptions. Prerequisite: MAS 303 and first course in statistics.

- MAS 345 APPLIED LINEAR ALGEBRA (5) (F,S) An introduction to the topics in linear algebro most often used in applications. Topics include matrices and their applications, simultaneous linear equations and elementary operations, linear dependence, vector spaces, rank and inverses, inner products and "best" approximations, numerical solutions of simultaneous linear equations, eigenvalues and eigenvectors, iterative methods for calculating eigenvalues and systems of linear equations. Prerequisite: MAS 302 or MAS 321.
- MAS 361-362 MATHEMATICAL MODELS AND APPLICATIONS I-II (5-5) (W,S) A course to provide an understanding of the use of the role of mathematical models in the description of the real world. In addition to considering basic principles in philosophy of formal model building, specific models will be considered, such as Markov Chain models, models for linear optimization, models involving stochastic processes, graphs and models, models for growth processes, and ecological models. Evaluation of models and computer simulation will also be discussed. Prerequisite: MAS 302 or MAS 321 or equivolent.
- MAS 365 NUMERICAL ANALYSIS (5) (W,SS) Bosic 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. Prerequisite: MAS 300 or MAS 311 and MAS 302 or MAS 321.
- MAS 375 DISCRETE MATHEMATICS (5) (F,W,S) An introduction to obstract mathematical structures with special emphasis on theories and methods which are relevant to the study of computer science. Topics include: introduction to formal systems and techniques of proof; combinatorial vs. relational structures; groups and graphs; Boolean algebros; abstract languages and machines. Prerequisite: MAS 311.
- MAS 377 DATA STRUCTURES (5) (F,S) Basic concepts of data organization and associated techniques. Arrays, stacks, singly and multiply linked lists, binary and n-ary trees, graphs. Both internal and external storage structures. Accessing, searching and sorting. Recursive and non-recursive processing. Dynamic allocation and garbage collection. Prerequisite: MAS 313 and MAS 375.
- MAS 395 INDEPENDENT STUDY (1-5) (F,W,S,SS) Individual conferences, ossigned reading, reports on independent investigations.
- MAS 398 SPECIAL TOPICS (1-5) (F,W,S,SS) A course designed to give groups of students on opportunity to pursue special studies not otherwise offered.
- MAS 401-402 FOUNDATIONS OF MATHEMATICS I-II (5-5) (F,W) An integrated course designed for teachers of Elementary and Early Junior High students. Emphosis will be placed on inductive and rudimentary deductive approaches to number systems, algebra, geometry, probability, statistics, and mathemotical 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:
- MAS 405 MATHEMATICAL LOGIC (5) (SS) 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 colculus; theorems of Godel and Church; recursive function theory, and idealized digital computers.
- MAS 415 OPERATING SYSTEMS PRINCIPLES (5) (S) A study of the bosic 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. Prerequisite: MAS 314 and MAS 377.
- MAS 416 DATA COMMUNICATIONS (5) (F) Study of communications-based systems, common carrier facilities, tariffs, and related equipment. Analysis and design of communications networks utilizing various techniques. Uses of communications for data collection, remote computing, message switching. Prerequisite: MAS 314
- MAS 417 MINICOMPUTER ARCHITECTURE AND APPLICATIONS (5) (W,SS) An introduction to minicomputers, in which students will have direct access to a general purpose minicomputer system. Study of the architecture of a particular minicomputer (including hands-on experience) followed by a comparison study of other minicomputer systems. Selected minicomputer applications in business, industry and science. Prerequisite: MAS 312 (or equivolent) and MAS 314.
- MAS 418 COMPUTERS GRAPHICS (5) (S) The principles and techniques of interactive computer graphics. Characteristics of graphical devices, representation and manipulation of graphical data, light pens and other graphical input devices, data structures for interactive graphics, graphical languages, applications of computer graphics. Prerequisite: MAS 314, MAS 321 and MAS 377.
- MAS 425-426 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I & II (5-5) (W,S) A study of those topics in mathematics most often used in applications in the physical sciences. A prerequisite knowledge of ordinory differential equations is required. Topics to be discussed include the following: solutions to ordinory differential equations obout singular points; Fourier Analysis, Sturm-Liauville Problems; Bessel Functions; Legendre Polynomiols; boundary value problems; Laplace equations; applications to problems in the physical sciences. Prerequisite: MAS 325 or equivalent.

MAS 435 STATISTICAL QUALITY CONTROL (5) (SS) This course presents the simple but powerful statistical techniques employed by industry to improve product quality and to reduce the cost of scrap. The course includes the use and construction of control charls (means, percentages, number defectives, ranges) and acceptance sampling plans (single and double). Standard sampling techniques such as MIL STD plans will be reviewed. Prerequisite: None.

MAS 437 PRACTICAL NONPARAMETRIC STATISTICS (5) (W) An introduction to distribution-free methods and their uses. Topics will include: tests based on the binomial distribution, contingency tables, use of ranks and statistics of the Kolmogorov-Smirnov Type. These topics caver familiar test statistics such as Mann-Whitney, Wilcoxon signed ranks, Spearman, Kendoll, Kruskal-Wallis. Prerequisite: First course in statistics.

MAS 451-452-453 REAL AND COMPLEX ANALYSIS I-II-III (5-5-5) (W,S,SS) An intensive study of the basic ideas of real and complex analysis based on a prerequisite knowledge of the multivariable calculus. Topics to be discussed include the following: sequences, series, power series expansion, differentiability, integration theory, Cauchy's Formula, residues, conformal mappings, measurable sets, measurable functions, elementary theory of Lebesgue integration. Prerequisite: MAS 303.

MAS 465 TOPOLOGY (5) (S) An introductory course in topology requiring a prerequisite knowledge of the calculus. Topics to be discussed will be selected from the following: topological spaces, metric spaces, continuity, completeness, compactness, separation axioms, products spaces, subspaces, convergence, and homotopy theory. Prerequisite: MAS 303.

MAS 471-472 MATHEMATICAL TECHNIQUES OF OPERATIONS RESEARCH I-II (5-5) (S,SS) An introduction to those topics in mathematics associated with studies in operations research. Topics include the following: linear programming and related topics, dynamic programming, queuing theory, computer simulation, network analysis, inventory theory, decision theory, integer programming. Prerequisite: MAS 345 and MAS 322 or MAS 332.

MAS 475 THEORY OF COMPUTATIONS (S) An introduction to abstract machine theory, combinatorial systems, and computable functions. Topics include: finite-state machines, regular sets, Turing machines, the halting problem, phrose-structure grammars and languages, and Post's correspondence problem. Emphasis is on surveying basic topics and developing an intuitive understanding of the theory of computation. Prerequisite: MAS 375.

MAS 480-481 ALGEBRAIC STRUCTURES I-II (5-5) (W,S,SS) A course based on the knowledge of the calculus and linear algebra that is concerned with the fundamental concepts of algebraic structures. Topics include elementary number theory, groups, rings, fields. Concrete examples are used to introduce concepts of modern algebra. Special emphasis is placed on the ring of integers, congruences, polynomial domains and permutation groups. Prerequisite: MAS 345 or MAS 375.

MAS 495 INDEPENDENT STUDY (1-5) (F,W,S,SS) Individual conferences, assigned readings, reports on independent investigations.

MAS 496 MATHEMATICAL SCIENCES INTERNSHIP (VAR) (F,W,S,SS) A special program to encourage students to get guided on-the-job experience in computer sciences, statistics, or mathematics in an industrial enterprise, governmental agency, or other organization. Requirements: minimum grade of B or higher in all courses in the major area and approval by Departmental Internship Committee. Application is required at least one term in advance of registration for this course.

MAS 498 SPECIAL TOPICS (1-5) (F,W,S,SS) A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 516 INFORMATION SYSTEMS ANALYSIS AND DESIGN (5) (W) This course deals with the need for formal data organization, the system requirements, effects of storage, devices, file attributes, file organization, search strotegies, privacy and security. Prerequisite: MAS 314, MAS 321 and MAS 377.

MAS 518 PROGRAMMING SYSTEMS (5) (S) Assemblers, loaders, MACRO systems, basic techniques of compilation, self-compilers, syntax encoding and recognition, code generation and optimization. Prerequisite: MAS 377 and MAS 415.

HCM/MAS 519 QUANTITATIVE ANALYSIS FOR HEALTH CARE (5) (F,S) This course covers various techniques of health data analysis. Topics covered are chosen for and related to their practical and potential applications in the health area.

MAS 521-522 PROBABILITY THEORY I-II (5-5) (S,SS) This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems and law of the iterated logarithm. Prerequisite: MAS 303.

MAS 523 STOCHASTIC PROCESSES (5) (F) This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include Markov Processes, queuing theory, renewal processes, birth and death processes, Paisson and Normal Processes. Applications to system reliability analysis behavior science and natural sciences will be stressed. Prerequisite: MAS 522.

MAS 531 RELIABILITY ENGINEERING I (5) (SS) The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.), tests of hypotheses of failure rates, prediction of component reliability, system reliability prediction and reliability apportionment. Prerequisite: MAS 332.

MAS 532 RELIABILITY ENGINEERING II (5) (F) The course is designed for those interested in using probability models such as Markov matrices to analyze the reliability of systems. The use of transition matrices to represent the state of repoirable and non-repairable systems will be stressed. Series and porallel constructed systems will be covered. Topics such as the reliability and availability of systems, average down time, required repairmen pool sizes, and number and camposition of spare parts pools will be covered. Prerequisite: MAS 345 and MAS 531.

MAS 541-542 DESIGN OF EXPERIMENTS I-II (5-5) (F,W) An applied course in the design and analysis of experiments applicable to all those interested in industrial and scientific experimentation. A knowledge of the basic fundamentals of the analysis of variance and testing of hypotheses is assumed. Topics include classical statistical designs (Latin squares, randomized blocks, etc.), factorial and fractional factorial designs, confaunding and aliasing, response surface designs, and asymmetric and main effect designs. Prerequisite: MAS 332 or MAS 336.

MAS 543-544 REGRESSION ANALYSIS I-II (5-5) (SS,F) A comprehensive review of the role of linear models in statistics. Extensive use is made of matrix notation and a prior course in linear algebra is imperative. The fundamental theorems underlying regression analysis and the analysis of vorionce will be covered. Such topics as the Gauss-Markov Theorem, generalized least squares, estimation and testing of hypotheses will be covered. Prerequisite: MAS 332 and MAS 345.

MAS 580 NUMBER THEORY (5) (SS) This course takes up topics in number theory. It assumes a knowledge of the basic cancepts of modern algebra. Topics to be discussed selected from the following: congruences, Diophantine Equations, p-adic numbers, algebraic number theory, class numbers, distribution of primes, continued fractions, and number theoretical explorations using the computer. Prerequisite: MAS 480.

MAS 595 INDEPENDENT STUDY (1-5) (F,W,S,SS) Individual conferences, assigned reading, reports on independent investigations.

MAS 598 SPECIAL TOPICS (1-5) (F,W,S,SS) A course designed to give groups of students on opportunity to pursue special studies not otherwise affered.

MODERN LANGUAGE MAJORS

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required Courses: four semesters of elementary and intermediate foreign language.

UPPER DIVISION PROGRAM:

	Quarter Hours
Required Courses: *	45
Foreign language	
Electives: *	45
	90

*Thirty quarter hours are required for the student enrolled in the Teacher Preparation Program.

Remark: Completion of at least three quarters of a second foreign language will be recommended.

Note: The Department does not require any fixed sequence of courses (e.g. 325, 326, 327). A student may enroll in any course for majors provided he or she meets the course requirements (e.g. "Seniors", "Juniors", "Non-Native Speakers," etc.).

LANGUAGE INSTRUCTION PROGRAMS

The Department offers a four-quarter and/or a five-quarter sequence of instruction in French, German, Hebrew, Italian, Portuguese and Spanish.

Courses numbered 301, 302, 303, 304 and 305 are open to any student, faculty or staff of Florida International University on a credit (5 quarter hours per course) or non-credit basis. The courses of the Language Instruction Program are designed primarily for persons wishing to acquire basic conversational ability in a foreign language, but they also provide training in all four

language skills: listening, speaking, reading and writing. Students are advised to consult the Departmental Course Listing for specific sections of French, German, Hebrew, Italian, Portuguese, and Spanish. Contingent upon demand, the Department of Modern Languages will offer courses in Chinese, Japanese, Lotin and Russian.

LANGUAGE INSTRUCTION PROGRAM COURSES

301 BEGINNING LANGUAGE INSTRUCTION (5) Provides training in the acquisition and application of basic language skills. The student selects the *language prefix* appropriate to his or her needs: FRE 301, GER 301, HEB 301, ITA 301, POR 301, SPA 301.

302 INTERMEDIATE LANGUAGE INSTRUCTION I (5) Continuation of 301. Course emphasis is an comprehension, reading, and vacabulary. The student selects the *language prefix* appropriate to his or her needs: FRE 302, GER 302, HEB 302, ITA 302, POR 302, SPA 302.

303 INTERMEDIATE LANGUAGE INSTRUCTION II (5) Course emphasis is on communication and language refinement. The student selects the *language prefix* appropriate to his or her needs: FRE 303, GER 303, HEB 303, ITA 303, POR 303, SPA 303.

304 ADVANCED LANGUAGE INSTRUCTION (5) Open to the student with advanced intermediate ability in the foreign language. Course emphasis is on verbal skills, reading, and writing. The student selects the language prefix appropriate to his or her needs: FRE 304, GER 304, HEB 304, ITA 304, POR 304, SPA 304.

305 REVIEW GRAMMAR/WRITING (5) Open to non-native speakers with some previous knowledge of the language. Prerequisite: -304 or the equivalent. The student selects the *language prefix* appropriate to his or her needs: FRE 305, GER 305, HEB 305, ITA 305, POR 305, SPA 305.

MAJOR COURSE OFFERINGS

Note: Courses do not have fixed content. FRE 406 — Genre Studies, may deal with the Modern Novel in the Fall Quarter and with the Seventeenth-Century Theatre in a subsequent academic quarter. Therefore, a student may repeat a course number at any time. The student is advised to consult the departmental Quarter Listing of Courses for specific sub-titles and descriptions.

The following courses, numbered 306-579, may be offered in French, German, Italian, Portuguese or Spanish towards fulfillment of the Upper Division Major, or may be taken as electives by qualified students. If a course using the MOL prefix is offered in more than one language in a given quarter, it will bear the appropriate prefix; e.g., FRE 325, SPA 325. Unless otherwise indicated, MOL courses will be taught in the foreign language.

MOL 306 STYLISTICS/EXPLICATION DE TEXTE (5) Close reading and analysis of prose and poetry. Introduction to the methods of literary criticism. Selected readings in international sources.

MOL 307 PHONETICS (5) The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity.

MOL 308 APPLIED LINGUISTICS (5) Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics through the application of modern/traditional methods. (In English)

MOL 309 INTRODUCTION TO GENERAL LINGUISTICS (5) Examination and synthesis of the concepts and perspectives of major contributions to language theory. (In English)

MOL 315 CREATIVE WRITING/TRANSLATION (5) Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.

MOL 325 INTERMEDIATE SYNTAX/COMPOSITION (5) Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

MOL 326 ADVANCED SYNTAX/COMPOSITION (5) Examination of grammatical theory; discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and composition.

MOL 327 COMMUNICATION ARTS (5) Oral interpretation and dramatic reading. Original and nonoriginal texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.

MOL 328 TRANSLATION SKILLS (5) Emphosis on basic principles and practical application.

MOL 335 HISTORY OF THE LANGUAGE (5) The internal and external history of language development. Examination of model texts from key periods of evolution.

MOL 336 DIALECTOLOGY (5) Definition and analysis. Problem-salving in dialect classification.

MOL 337 ROMANCE LINGUISTICS (5) The common and distinctive romance features. Survey of linguistic geography and internal/external influences.

MOL 355 INTELLECTUAL HISTORY (5) The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.

MOL 356 LITERATURE OF REFORM (5) The consciousness of change in verbal art.

MOL 357 LITERATURE OF REPRESSION (5) The consciousness of constraints, their adoption and/or rejection in verbal art.

MOL 358 BI-CULTURAL WRITINGS (5) Experiment in linguistic pluralism. Content and focus to be determined by the international community.

MOL 359 PROSE AND SOCIETY (5) The dynamics of participation and alienation among prose writers and their environment.

MOL 360 CIVILIZATION I (5) Open to any student who understands the target language (French, Spanish, Portuguese, etc.) The development of a particular civilization. Emphasis on the evolution of a society, its ideas/and its values.

MOL 365 LITERATURE IN TRANSLATION (5) Masterpieces of world literature in English. Comparative use of the ariginal text. Discussion and interpretation.

MOL 397 SPECIAL TOPICS (5) Readings and discussion of literary/linguistic topics to be determined by students and teacher.

MOL 398 INDEPENDENT STUDY (5) Project, field experience, readings, or apprenticeship.

MOL 399 FOREIGN STUDY (15) Intermediate level. One quarter full-time credit in foreign residence and study. Individual cases will be evaluated far approval.

MOL 405 CREATIVE MODES (5) Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.

MOL 406 GENRE STUDIES (5) Examination of a single literary form (e.g., short stary, poetry), or the study af interaction between literary types (e.g., novel and drama).

MOL 407 THE LITERARY GENERATION (5) The real and apparent shared ideals of an artistic generation; its influence and range.

MOL 411 LANGUAGE SKILLS FOR PROFESSIONAL PERSONNEL (5) The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

MOL 428 PROFESSIONAL TRANSLATION (5) Techniques and resources for professional translation. Prerequisite: MOL 328.

MOL 438 PROBLEMS IN READING AND INTERPRETATION (5) The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

MOL 455 SENIOR SEMINAR (5) Tapic and approach to be determined by students and instructor.

MOL 460 CIVILIZATION II (5) Open to any student who understands the target language (French, German, Spanish, etc.) The making of a modern culture. The idealogical, political and economic background of contemporary culture.

MOL 465 EUROPEAN LITERATURE IN TRANSLATION (5) For students proficient in more than one foreign language. Content and facus to be determined by students and teacher.

MOL 475 CONTRASTIVE PHONOLOGY (5) For students proficient in mare than one foreign language. Choice of languages to be determined by students and teacher.

MOL 476 CONTRASTIVE MORPHOLOGY (5) Far students proficient in more than one foreign language. Content and emphasis table determined by students and teacher.

MOL 478 PROBLEMS IN LANGUAGE LEARNING (5) Primarily designed for prospective teachers but apen to all interested students. The course will aim to devise an approach to difficulties in syntax, usage, reading and comprehension cammonly experienced.

MOL 479 STUDIES IN BI-LINGUALISM (5) Readings and analysis of bi-lingual programs and bi-national goals.

MOL 497 SPECIAL TOPICS (5) (S) Independent readings, research, or project.

MOL 498 INDEPENDENT STUDY (5) (F,W,S,SS) Project, field experience, readings, ar research.

MOL 499 FOREIGN STUDY: ADVANCED LANGUAGE/LITERATURE (15) Full-quarter credit for foreign residence and study/work. (Approval of Department)

MOL 501 LANGUAGE FOR READING KNOWLEDGE (5) Designed primarily for graduate students who wish ta attain proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.

MOL 502 LANGUAGE FOR READING KNOWLEDGE (5) Emphasis on translation of materials from the student's field of specialization. Prerequisite: MOL 501 or the equivalent.

MOL 505 SPECIAL TOPICS IN LINGUISTICS (5) Content to be determined by students and teacher. (Approval of Department).

MOL 506 GENRE STUDIES (5) Examination of a single literary form (e.g., short story, poetry), or the study of interaction between literary types (e.g., novel and drama).

MOL 510 COMPARATIVE STUDIES (5) Cross-over and distinctiveness in a multi-language problem, period, or esthetic.

MOL 515 SPECIAL TOPICS IN LANGUAGE/LITERATURE (5) Content and objectives to be determined by students and teacher.

MOL 527 COMMUNICATION ARTS (5) Oral interpretation and dramatic reading. Original and nonoriginal texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in on acquired language.

MOL 528 TRANSLATION ARTS (5) Prerequisite: MOL 428. Techniques of professional translation.

MOL 537 ROMANCE LINGUISTICS (5) The common and distinctive romance features. Survey of linguistic geography and internal/external influences.

MOL 558 BI-CULTURAL WRITINGS (5) Experiment in linguistic pluralism. Content and focus to be determined by the international community.

MOL 556 LITERATURE IN TRANSLATION (5) Masterpieces of world literature. Open to students who are proficient in more than one language.

MOL 570 GRADUATE SEMINAR (5) Topic and approach to be determined by students and instructor. (Approval of the Department).

MOL 579 STUDIES IN BI-LINGUALISM (5) Readings and analysis of bi-lingual programs and bi-national goals.

PHILOSOPHY, RELIGIOUS STUDIES AND INTERDISCIPLINARY: PHILOSOPHY AND RELIGIOUS STUDIES MAJOR

DEGREE: Bachelor of Arts
LOWER DIVISION PREPARATION:

Required Courses: None.
Recommended Courses: Philosophy, Religion.
UPPER DIVISION PROGRAM:

	Qualities 110013
Required Courses:	35
Core Courses in Major	20
Related Courses in Major	15
Courses in Another Discipline	20
Electives:	35
	90

Remarks: The selection of core and related courses, with the approval of a faculty member of the Department, should have a balance of the historical, the systematic and the thematic perspectives of the courses offered. The student is encouraged to intensify his or her chosen major concentration, particularly through seminar work and independent research, for which purpose he or she may employ some of the 35 quarter hours designated for electives.

Quarter House

Furthermore, students in general are encouraged to consider the possibility of a dual major concentration. They may thus meet the requirements for two majors within the limits of their program of studies for a Bachelors degree. In this case, the 20 quarter hours of core courses and the 15 quarter hours of related courses constitute the essential requirement for their major concentration in the Department.

COURSE OFFERINGS

PHILOSOPHY

PHI 300 INTRODUCTION TO PHILOSOPHICAL THINKING (5) This introductory course examines the presence of philosophy and the role of philosophizing in man's search for understanding of himself and of his world. It includes the study of the basic structure, the many applications and some basic issues of philosophical thinking, through a dialogue with those original sources more occessible for a first learning experience in philosophy and which represent basic events in the history of philosophizing.

PHI 301 LOGIC AND PROBLEM SOLVING (5) 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, fallocies, and the rale of logic in scientific explanation and popular expression.

PHI 302 KNOWLEDGE, THINKING, AND CREATIVITY (5) The viewpoints of various philosophers and schools of thought regarding types of knowledge, certitude, and creativity are the main emphasis of this introductory course. The meaning of truth and truthfulness is analyzed from both the classical and the contemporary perspectives.

PHI 303 WHAT IS REALITY? (5) This introductory course examines basic metaphysical questions regarding the nature of reality, as well as the meaning of these questions for man's concept of himself and his world. Fundamental texts from classical and contemporary philosophers will be considered.

PHI 304 FUNDAMENTAL ETHICAL ISSUES (5) The possibility and validity of ethical knowledge and value systems will be considered in this introductory course. The ethical dimensions of such notions as pleasure, happiness, duty, responsibility for action and life style will be discussed in the context of several classical and contemporary problems and issues.

PHI 310 MYTH AND PHILOSOPHY (5) The course will be concerned with how Western myth and philosophy represent human life. This topic will be explored through a study of the emergence of philosophy out of myth, the relation of myth to science as the myth of science or the science of myth, and the possible submergence of philosophy back into myth.

PHI 311 ANCIENT PHILOSOPHIES (5) The bosic 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 ore emphasized in this course.

PHI 312 MEDIEVAL PHILOSOPHIES (5) 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.

PHI 313 RENAISSANCE PHILOSOPHIES (5) The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the Renaissance, and linkages to their post and future are emphasized in this course.

PHI 314 MODERN PHILOSOPHIES (5) The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the 17th and 18th centuries, and linkages to their post and future are emphasized in this course.

PHI 316 CHINESE AND JAPANESE PHILOSOPHIES (5) This course will examine the main currents of Chinese and Japanese thought, with special focus on the quest of the Chinese people toward a more harmonious adjustment to their environment. The investigation will include consideration of the Confucion, Mohist, Taohist, Legalist and Zen Buddhist philosophies.

PHI 318 LATIN AMERICAN PHILOSOPHIES (5) This course will examine the development of Latin American thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of prominent Latin American philosophers in the light of problems such as personal and cultural identity.

PHI 319 AMERICAN PHILOSOPHIES (5) 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.

PHI 320 HUMANISTIC AND SCIENTIFIC PERSPECTIVES (5) After a review of several basic philosophical nations, the assumptions, methodologies and consequences of the humanities and the social and natural sciences will be discussed. Topics will be selected from current issues.

PHI 325 PHILOSOPHIES OF SOCIETY (5) After an introduction to the various dimensions of social philosophy, in its relationship to other philosophical disciplines, to the social sciences and to social ideologies, this course will examine some of the fundamental questions raised by human experience regarding the origins, the purposes and types of society. The readings will be chosen from the works of contrasting major social thinkers.

PHI 326 PHILOSOPHIES OF EDUCATION (5) Notions of philosophy and education will be applied in the review of prominent philosophies of education. Special attention will be given to the development of the student's own philosophy of education, and to the importance of philosophical assumptions in curriculum designs and teaching strategies.

PHI 328 PHILOSOPHIES OF SCIENCE (5) 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, explanatian and prediction, and the role of science in society will be explored.

PHI 329 PHILOSOPHIES OF BEAUTY AND ART (5) An introduction to problems in aesthetics, with emphasis an 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 404 VALUE THEORIES (5) Several questions will be examined in this course in the context of classical and contemporary value theories. What is value? How are values known? What are the determinants of value? How do values differ from beliefs and attitudes? Are values relative?

PHI 410 NINETEENTH CENTURY PHILOSOPHIES (5) The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the 19th century, and linkages to their past and future are emphasized in this course.

PHI 411 CONTEMPORARY PHILOSOPHIES (5) The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the present century, and linkages to past and emerging generations are emphasized in this course.

PHI 414 ANALYTICAL PHILOSOPHY (5) This course examines the 20th century Angla-American tradition whose aim is to solve 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.

PHI 415 MODERN EXISTENTIALISM (5) This course examines the origin, the basic philosophical insights, and the influence of the mainstreams (French, German, Russian, Spanish) of modern existentialism.

PHI 416 PHENOMENOLOGY (5) This course analyzes the method, the basic philosophical insights and the applications of cantemporary (German and French) phenomenological thinking. It will include both the experiencing of phenomenalogical awareness (of freedam, of knowledge, of encounter) and the study of original texts.

PHI 418 MARXISM (5) This course examines the philosophic insights of Marx and the main trends (anthrapological, social, existential) in contemporary Marxism. It includes an analysis of the Marxist interpretation of alienatian, work and human authenticity.

PHI 420 ETHICAL ISSUES IN BUSINESS (5) After a review of basic questions regarding ethical knowledge, norms and systems, students will consider the ethical dimensions of current problems and issues facing the business manager or worker: corparate decisions, personal responsibility, product quality and performance, production, marketing and advertising, management and in general economic rationality.

PHI 421 ETHICAL ISSUES IN POLITICS (5) After a review of basic questions regarding ethics, politics and their relationship, students will consider with historical perspective some fundamental currents and alternatives in the field of political ethics, and then will examine the ethical dimension of some contemporary issues facing the citizen, the public servant and the political leader, such as credibility, technocracy, conflict of interest and violence.

PHI 422 BIOMEDICAL ETHICS (5) 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 counselling professions.

PHI 427 CHANGE AND ORDER IN SOCIETY (5) This course will examine the dimensions of change and order in contemporary societies, developed and underdeveloped, with particular attention to the human values involved, in the light of different philosophical theories and socio-political idealogies.

PHI 430 PHILOSOPHY OF LANGUAGE (5) This course examines the phenomenon of language as an integral part of human culture and as the way of human encounter. It includes the contemporary structural and phenomenological analysis of the meaning of language, the power and limitations of speech, the relationship between thought and language, the non-rational thought process and its influence upon rational thought and language, and the power and magic of the word.

PHI 431 PHILOSOPHY OF DIALOGUE (5) This course examines the meaning, the foundations, and the limitations of dialogue and the dialogical structure of the phenomena of expression, communication, education and human relationships. It includes a contemporary philosophical analysis of the dialogical principle and the application of its insights to the problems of human living and knawing.

PHI 435 PHILOSOPHY OF DEATH (5) (S) This course analyzes the meaning of death and man's attitude towards death and the dying. It examines haw 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.

PHI 440 PHILOSOPHY IN LITERATURE (5) This course will examine modern philosophical currents as seen in the works of pertinent literary figures, such as Talstoy, Dostoevsky, Conrad, Kufka, Koestler, Camus and Mann. Certain basic themes resulting fram the merging of aesthetic value and philosophic reflection will be examined: the self, alienation, history, the absurd, time and death.

PHI 445 PHILOSOPHIC PROBLEMS IN THE SCIENCES (5) Selected philosophic problems will be explored, drawn either from the natural sciences or from the social sciences. In the latter case the course will be considered as equivalent of SOC 493 — Basic Assumptions of Socialogy, for students majoring in programs of Socialogy and Anthropology.

PHI 490 INDEPENDENT RESEARCH (VAR) Topics will be selected to meet the academic needs of the individual student.

PHI 495 PHILOSOPHY SEMINAR (5) This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

PHI 591 SPECIAL TOPICS (5) Topics will be selected to meet the academic needs of groups of students.

RELIGIOUS STUDIES

REL 300 RELIGION AND LIFE STORIES (5) An explanation of the nature of religious experience as it appears in the life stories of individuals. The course will include the life stories of the initiators of the great world religions as well as those of contemporary persons. The student will be encouraged to explore his own life story in the light of this prior discussion.

REL 301 WHO IS GOD? (5) This course will trace the idea of God from primitive culture through Greek, Hebrew and Christian thought to the contemporary situation. The various responses to the question of God given by particular groups in modern society will be examined in order to see the relevance of these responses for current issues and life styles.

REL 303 HUMAN RELIGIOUS EXPERIENCE (5) A phenomenological comparison between the religious experiences of primitive man and modern man will cover the first part of this course. The second part will investigate the psychological motivations in the religious experience of contemporary man. Finally, the inner dynamics in the development of a mature religious attitude will be examined.

REL 305 REVELATION AND SCIENCE (5) This course will explore science and revelation as basic avenues to knowledge of ultimate significance in an effort to discover their respective underlying assumptions. In response to those who raise questions about religious beliefs in ways that demand evidence and reasons, it will then discuss such sources of revelation as scripture, prophecy, incarnation, miracle, natural order, religious experience and mysticism.

REL 306 FAITH AND ETHICS (5) 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 310 BIBLICAL WRITINGS AND THOUGHT (5) An introductory survey of the Old and New Testament from the points of view of historical background, the cultures in which the works were written and the ideas they contain. Emphasis will be given to the relevance of biblical themes for the contemporary situation.

REL 312 THE PROPHETS (5) What is a prophet? This course will attempt to answer this question both in terms of the classic Hebrew prophets, whose acts and words are preserved in the Old Testament, and the nature of the prophetic vocation in the contemporary world.

REL 315 JESUS IN HIS AND OUR TIMES (5) This course is a study of the life of Jesus through an examination of his acts and words as recorded by his contemporaries in the New Testament. Attention will also be given to the interpretation of Jesus' message by theologians and others as they seek to relate him to the modern world.

REL 317 THEOLOGY OF PAUL (5) This course will survey the life and times of Paul as a prelude to an indepth study of this primary Christian thinker. Attention will be given both to the sources of his thought and to its contemporary relevance.

REL 320 RELIGIONS OF THE WORLD (5) Introduction to the major faiths of mankind. Included in the discussion will be Hinduism, Buddhism, Taoism, Islam, Judaism and Christianity. The course will involve a comparison of common elements in these major religions while respecting their distinctive features.

REL 323 JUDAISM (5) 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 326 EARLY CHRISTIANITY (5) 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 328 REFORMATION (5) The lives and thoughts of the leaders of the Protestant Reformation will be the focus of this course. Significant attention will be given to the perennial personal experiences and theological perspectives which directed the actions of such persons as Luther, Calvin, Zwingli and the movements they founded.

REL 329 MODERN CHRISTIANITY (5) This course will survey the basic beliefs of Christian doctrine in its mare modern and existential insights. And for this purpose will take into consideration the social, cultural and scientific revolution associated with the thinking of Hume, Darwin, Marx and Freud and other thinkers who furnish the background for the emerging newer understanding of Christian faith.

REL 340 JUDAIC PRAYER (5) This course will examine the nature and place of prayer in modern Judaism. After a survey of the place of prayer in the life and history of ancient Israel as reflected in Hebrew Scriptures and Rabbinic writings, attention will be focused on the teachings concerning prayer and its practice in contemporary Jewish worship and spirituality.

REL 350 MARRIAGE (5) This course will explore what resources for a renewed contemporary understanding of marriage may be found in the religious biblical perspectives. The social psychological and spiritual dimensions of marriage will be considered in the development of the course.

REL 400 NEW OPTIONS IN RELIGIOUS EXPERIENCE (5) An examination of the methods for studying religious experience will be followed by an application of the results to the numerous types of religious phenomena currently being promoted in our culture. These include Witchcraft, Zen, pentecostalism, drug experience, revivals, Jesus people, Hare Krishna, and spiritualism.

REL 401 GOD, WORLD AND PROCESS (5) The Process thought of the school founded by Alfred North Whitehead is a widely respected attempt to make the concept of God understandable to the rational and empirical modern mind. This course will examine the important religious implications of Process Thought.

REL 403 WHY SUFFERING AND EVIL? The problem of evil is as perennial as it is perplexing in religious thought. This course will examine the major theological responses to the problem of evil and the fact of suffering in order to ascertain their adequacy and relevance of these responses for today.

REL 405 ISSUES IN RELIGION AND SCIENCE (5) An exomination of the relationships between the perspectives of religion and science and the consequences of these relationships for our time. A different major tapic will be selected and announced each time the course is affered.

REL 406 RELIGIOUS VALUES AND TECHNOLOGY (5) A study of religious value systems of modern programs of technology will be undertaken for the purpose of evaluating these systems and using them most fully in constructing a human world.

REL 420 CONTEMPORARY JUDAIC-CHRISTIAN RELIGIOUS THOUGHT (5) This course will examine contemporary issues facing Judaism and Christianity, such as farmulation of faith, institutional identity, liturgical prayer, ecumenism, marriage and social commitment. It will consider comparatively the manner in which Jewish and Christian theologians of today meet these issues.

REL 426 CONTEMPORARY LATIN AMERICAN RELIGIOUS THOUGHT The major trends of religious thought in Lotin 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 429 STUDIES IN RELIGIOUS THINKERS (5) A major religious thinker or school of thought will be examined in depth or compared with another major perspective. Possible figures include: Augustine, Aquinas, Luther, Calvin, Kierkegaard, Buber, Heschel, Barth, Tillich, Teilhard and Altizer. The specific thinkers or school of thought will be selected and announced in advance.

REL 445 WESTERN MYSTICS (5) This course considers the roots and development of western mysticism, including contemporary expressions of the same, through a direct analysis of selected works of major mystics. On this basis, the course will attempt to identify synthetically the essential characteristics of mystical experience.

REL 450 THE END? (5) What happens after death? This course will explore the various answers to this question given by contemporary theologians and thinkers.

REL 490 INDEPENDENT RESEARCH (VAR) Tapics will be selected to meet the academic needs of the individual student

REL 495 RELIGIOUS STUDIES SEMINAR (5) This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

REL 591 SPECIAL TOPICS (5) Topics will be selected to meet the academic needs of groups of students.

INTERDISCIPLINARY: PHILOSOPHY AND RELIGIOUS STUDIES

PHR 300 MEANING OF LIFE (5) 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.

PHR 310 EASTERN PHILOSOPHICAL AND RELIGIOUS THOUGHT (5) This introductory course examines the development of philosophical and religious thought in the East, from ancient to modern times. Hinduism, Buddhism, Confucianism, Taoism and other major viewpoints will be considered, in themselves and in comparison with Western forms of thought.

PHR 311 INDIAN THOUGHT (5) Majar schools and works will be examined showing the development of Indian thought from Hinduism through Buddhism. Emphasis will be placed an metaphysical and epistemalogical 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.

PHR 315 YOGA (5) The ancient techniques of "Hatha Yoga", relaxation and breathing, leading to meditation, mastership of self and inner peace will be the content of this course. The course will be both theoretical and practical, with major emphasis on the latter.

PHR 326 PHILOSOPHIES OF RELIGION (5) This course will involve a study of the phenomena of religion as a means of identifying and evaluating its 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.

PHR 327 BASIC DILEMMAS IN FAITH AND REASON (5) This course examines the nature and the boundaries af faith and reason, the phenamenan of contemparary atheism and the relationship between religion and the sciences. It shall approach these problems from both the philosophical and the religious perspectives, with an awareness that both human reason and religious faith strive for a basic and ultimate understanding of the world and man, and that, nevertheless, especially today, they confront each other in many ways, sametimes remain antagonistic, and very aften present a serious dilemma to everyone who wants to arrive at a coherent and human grasp of persanal living and reality.

PHR 400 LOVE AND SEXUALITY This course examines the different philosophical approaches to lave and sexuality and studies the basic problems in human sexual living, such as love and the man-waman relationship, the formation of sexual union, and attitudes towards lave and sexuality in contemporary society.

PHR 401 HUMAN IDENTITY (5) This interdisciplinary course will explare the philasaphical, religious and psychalogical views on personhood. Several questions will be examined: What constitutes personhood? What is the self-concept? What does it mean to be an authentic person? How free is any person.

PHR 426 MAN AND NATURE (5) This course examines the philosophical understanding af nature and af man's relation to nature as his environment. It will explore the humanistic perspectives of both the scientific and the philosophical interpretations of nature and environment. It will also deal with the diverse influence af technology and social arganizations on the quality of human living through their impact an man's environment.

PHR 490 INDEPENDENT RESEARCH (VAR) Topics will be selected to meet the academic needs of the individual student.

PHR 495 INTERDISCIPLINARY SEMINAR (5) This seminar is designed for majors and ather qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and annuanced in advance. The number of participants will be limited.

PHR 591 SPECIAL TOPICS (5) Topics will be selected to meet the academic needs of groups of students.

PHYSICAL SCIENCES TH SCIENCES ENVIRON

PHYSICS, CHEMISTRY, EARTH SCIENCES, ENVIRONMENTAL STUDIES MAJORS

PHYSICS

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION:

Required Courses: part of the 90 quarter haurs (60 semester haurs) of lower division coursework should be in the sciences.

Recommended Courses: algebra and trigonometry; chemistry (10 quarter hours); physics with ar without calculus; calculus (10 quarter haurs). All but the algebra and trigonometry courses may be taken at the University.

UPPER DIVISION PROGRAM:

Najor:	Quarter Hours
Required Courses:	55
PHY 340 Madern Physics	5
PHY 415-416 Electromagnetism	10
PHY 410 Classical Mechanics	5
PHY 411 Statistical The modynamics	5
PHY 407 Seniar Physics Labaratory	5
PHY 420 Quantum Mechanics	5
Electives in experimental ar thearetical physics	15
Math elective beyond 10 quarter haurs of calculus	5
Electives:	35
	_
	90

Minor: Two minors are available to students. Track A is designed for the student who plans to take the introductory physics sequence PHY 301-302-303 or its equivalent. Track B is designed for the student who plans to take the introductory sequence PHY 305-306 or its equivalent.

	Q.	.Н.			Q.H.
Track A:		30	Track B:		30
PHY 301-302-303 Physics with Calculus	15		PHY 305-306 Physics without Calculus	10	
PHY 340 Modern Physics	5		PHY 340 Modern Physics	5	
Additional approved courses	10*		Additional approved courses	15*	
	-	-			_
*approval of physics advisor		30	*approval of physics advisor		30

COURSE OFFERINGS

PHY 301-303 PHYSICS WITH CALCULUS (5-5-5) (F-W-S; W-S-SS) Basic physics sequence for students that have had mathematics through calculus. PHY 301 will cover kinematics, Newton's laws, conservation of linear and angular momentum and gravitation. PHY 302 continues with fluid dynamics, sound, thermodynamics, and electric fields. PHY 303 covers magnetic fields, electromagnetic waves, and elementary optics. Calculus may be taken concurrently.

PHY 301L, 302L, 303L JUNIOR PHYSICS LABORATORY (2-2-2) (F-W-S) Laboratory section of Physics 301-303. This may be taken separately..

PHY 305, 306 PHYSICS WITHOUT CALCULUS (5-5) (F-W; S-SS) Introductory physics for students without calculus. The same material is presented as in PHY 301-303, but with less mathematical sophistication. Not for science or pre-med majors.

PHY 307 OBSERVATIONAL ASTRONOMY (2 Variable) (F) A study of astronomical objects visible from Miami: Stars and their constellations, planets, binary stars, star clusters, variable stars, nebulae and galaxies will be among the objects discussed and observed.

PHY 309 MODERN ASTRONOMY (5) (F) The structure and evolution of our solar system is studied with particular emphasis on physical concepts. Topics will include astronomical coordinate systems, celestial mechanics, the earth's motions and a description of the solar system.

PHY 310 MODERN ASTROPHYSICS (5) (W) An introduction to the structure of stars and galaxies and the evolution of the universe as a whole. Topics will include atomic spectra, stellar classifications, galactic structure and cosmology.

PHY 321 THERMODYNAMICS (5) (F) Same as CHE 321. Fundamental principles of thermodynamics; the first, second, and third laws, free energy, entropy, the chemical potential, phase rule and its applications. The first in a three-quarter physical chemistry sequence. The student requires competence in general chemistry and in mathematics through Calculus I & II (Lecture).

PHY 322 OPTICS (5) (W) General formulation of geometrical optics including matrix techniques, interference phenomena, and the theory of Fraunhofer and Fresnel diffraction will be among the topics covered.

PHY 340-341 MODERN PHYSICS (5-5) (W-S) Recent developments in physics are discussed. Subject matter includes: Review of classical physics, special relativity, four-vectors, particle aspects of waves, wave aspects of particles, the hydrogen atom, many electron atoms, nuclear instrumentation, nuclear structure, nuclear reactions, elementary particles, introduction to quantum mechanics and solid state physics.

PHY 351 EARTH PHYSICS (5) (W) The planet earth treated as a physical system. The formation and structure of the earth will be discussed, as well as current dynamic changes.

PHY 352 ELECTRONICS (5) (SS) Including solid state theory and the theory of circuits. Circuit operation and design in lecture and laboratory sessions.

PHY 356/CHE 356 INTRODUCTION TO SCIENTIFIC INSTRUMENTATION (5) (W) The student learns to set up and operate such standard pieces of laboratory apparatus as bridges, amplifiers, oscilloscopes, frequency counters, flowmeters, and thermocouple circuits utilizing chart recorders. A background in general physics is recommended.

PHY 361 FRONTIERS OF PHYSICS (5) (F) An introduction on an elementary level to developments in physics in the 20th century. The subjects covered will include relativity, atomic and molecular structure, solid state physics, the laser, nuclear structure, particle physics and astrophysics.

PHY 362 PHYSICAL ASPECTS OF UNSOLVED MYSTERIES (5) (W) Topics peripheral to orthodox science such as UFO's, attempts to communicate with alien beings, the theories of Velikovsky, Stonehenge, and psychic phenomena are presented for discussion. Emphasis is on physical ideas, scientific reasoning, and the interplay between theory and experiment.

PHY 407, 408, 409 SENIOR PHYSICS LABORATORY (5-5-5) (F-W-S) Advanced laboratory topics are treated. Modern physics laboratory equipment is used, and the student is introduced to current physics laboratory practice.

PHY 410 CLASSICAL MECHANICS (5) (W) Newtonion mechanics including statics of particles, cables and rigid badies, dynamics of particles and groups of particles in three dimensions and motion of a rigid bady in a plane. A background in general physics is advisable.

PHY 411/CHE 406 STATISTICAL THERMODYNAMICS (5) (F) Review of the fundamental laws of thermodynamics applied to simple systems. Elementary kinetic theory of gases applied to diffusion, viscosity, thermal and electrical conductivity. Baltzmann, Fermi-Dirac and Bose-Einstein distribution functions applied in the Boltzmann limit to the calculation of thermodynamic variables.

PHY 415, 416 ELECTROMAGNETISM (5-5) (F-W) The theory of electromagnetic fields and waves is developed from basic principles. Vector calculus, Coulomb's law, Gauss's Law, Electrostatic potential, dielectrics, salutions to LaPlace's and Poisson's equations, magnetic induction, vector potential, magnetic scalar patential, Faraday's law, magnetic materials, Maxwell's equations and propagation of waves in space and various media are discussed. Calculus is a prerequisite.

PHY 420 QUANTUM MECHANICS I (5) (S) An introduction to the basic postulates of quantum mechanics. Salutions to the time independent Schrodinger equation are obtained for particles in one dimensional patential wells, the hydrogen atom solutions and the harmonic ascillator problem.

PHY 421 ADVANCED THEORETICAL MECHANICS (5) SS A continuation course in classical mechanics which leads naturally into Quantum Mechanics. Topics to be covered will include Lagrangian and Hamiltonian methods, variational techniques, Poissan brackets, symmetries, algebra of quantum mechanics, representations, Dirac ladder operations, spin, and the hydragen atom. Introductory courses in classical and quantum mechanics are prerequisites.

PHY 430 PHYSICS OF FLUIDS (5) (S) Introduction to the constitutive equations of Fluid Mechanics. Topics in steady campressible and incompressible flows. Prerequisites: Classical Mechanics and Thermodynamics or consent of instructor.

PHY 440 SOLID STATE PHYSICS (5) (S) Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, and dielectric materials.

PHY 451 NUCLEAR PHYSICS (5) (S) A treatment of the current state of the nuclear theory problem and a discussion of madern experimental methods.

PHY 481, 482, 483 INTRODUCTION TO PHYSICS RESEARCH (5-5-5) F-W-S-SS Students are introduced to research techniques by assisting with an original investigation in experimental or theoretical Physics.

PHY 491-493 INDEPENDENT STUDY (1.5) F-W-S-SS The student will work under the supervision of a faculty member, on subject material of mutual interest.

PHY 501 THEORETICAL PHYSICS (5) (S) The theoretical foundation of classical mechanics, relativity, fields, quantum mechanics, group theory and relativity.

PHY 591-593 SPECIAL TOPICS (VAR) The student will work under the supervision of a faculty member on subject material of mutual interest.

CHEMISTRY

The student may choose a Bachelor of Arts program or a Bachelor of Science program of study in Chemistry.

DEGREE: Bachelor of Arts

This program is for students preparing for careers in medicine, dentistry, environmental studies, veterinary medicine, or secondary science education.

LOWER DIVISION PREPARATION:

Required Courses: one year of general chemistry; algebra and trigonometry; one year of general biology.

Lower or Upper Division Preparation: required courses which may be taken at the University: MAS 301-302 Differential and Integral Calculus; CHE 301-302 Organic Chemistry I-II; PHY 301-302-303 Physics with Calculus or PHY 305-306 Physics without calculus.

UPPER DIVISION PROGRAM:

		Quarter Hours
Required (Courses	24
CHE 403	Organic Chemistry III	5
CHE 427	Organic Structure Determination	2
or		
CHE 428	Research Techniques in Organic Chemistry	2
CHE 311	Physical Chemistry far Life Sciences	7
CHE 312	Quantitative Analysis	5
One addi	tional chemistry course	5
Electives:		66
		90

DEGREE: Bachelor of Science

This program is according to the guidelines of the American Chemical Society and prepares students for graduate study or professional careers as a chemist in industry, government service, or secondary school teaching.

LOWER DIVISION PREPARATION:

Required Courses: one year of general chemistry; algebro and trigonometry.

Lower or Upper Division Preparation: required courses which may be taken at the University: MAS 301-302 Differential and Integral Calculus; CHE 301-302 Organic Chemistry I-II; PHY 301-302-303 Physics with Calculus.

LIPPER DIVISION PROGRAM:

		Quart	er Hour
	Required Courses:		54
	CHE 403 Organic Chemistry III	5	
	CHE 427 Organic Structure Determination	2	
	or		
	CHE 428 Research Techniques in Organic Chemistry	2	
	CHE 321 Physical Chemistry I — Thermodynamics	5	
	CHE 322 Physical Chemistry II — Equilibrium and		
	Properties of Solutions	5	
	CHE 323 Physical Chemistry III — Quantum Mechanics	5	
	CHE 325-326-327 Physical Chemistry Laboratory I-II-III	1-2-2	
	CHE 312 Quantitative Analysis	5 7	
	CHE 412 Modern Analytical Chemistry	7	
	CHE 431 Advanced Inorganic Chemistry	5	
	Senior Seminar and/or Independent Study	5	
	One additional senior-level chemistry course	5	
	Other Required Courses: at least one of the following:		5
	MAS 325 Differential Equations	5	
	MAS 425 Math Methods in the Physical Sciences	5	
	MAS 311 Introduction to Computers	5	
	Electives:		31
			90
,	Ainor in Chemistry:		
	Required Courses:		33
	CHE 305-306 Contemporary Chemistry with Laboratory	14	
	CHE 301-302 Organic Chemistry with Laboratory	14	
	CHE 312 Quantitative Analysis with Laboratory	5	
			_
			33

COURSE OFFERINGS

CHE 301 ORGANIC CHEMISTRY (7) (F-S) An introduction to chemical bonding and atomic structure theory as it pertoins 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. Laboratory will provide an introduction to the basic tools and techniques of the organic chemist. (Lecture and laboratory).

CHE 302 ORGANIC CHEMISTRY II (7) (W-SS) Continuation of CHE 301. Laboratory includes synthesis and qualitative analysis of organic compounds. (Lecture and Laboratory).

CHE 305-306 CONTEMPORARY CHEMISTRY I-II (7-7) (F-W, S-SS) Fundamental principles of modern chemistry: atomic structure, stoichiometry, chemical bonding, states of mother, thermodynamics, solutions, kinetics, equilibrium, electrochemistry. This course is primarily designed for the student who feels that his background in general chemistry is somewhat weak and who would like to go on to organic chemistry or more advanced biology courses. Familiarity with algebraic manipulations is required. (Lecture and Laboratory).

CHE 309 SURVEY OF ORGANIC CHEMISTRY (7) (F) A bosic one-quarter 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. (Lecture and Laboratory).

CHE 311 PHYSICAL CHEMISTRY FOR THE LIFE SCIENCES (7) (S) Principles of Physical Chemistry with particular reference to the life sciences. Thermodynomics, equilibria, electrochemistry, and reaction kinetics. Students should have competence in colculus and general physics. (Lecture and Loboratory).

CHE 312 QUANTITATIVE ANALYSIS (5) (S) 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. Prerequisite: CHE 305-306 or equivalent. (Lecture and Laboratory).

CHE 321/PHY 321 PHYSICAL CHEMISTRY I — THERMODYNAMICS (5) (F) Fundomental principles of thermodynamics; the first, second, and third lows, free energy, entropy, in addition to the chemical potential, phase rule and its applications, concepts of activation energy. The first in a three-quarter physical chemistry sequence. The student must have competence in general chemistry and in mathematics through Calculus I. (Lecture).

CHE 322 PHYSICAL CHEMISTRY II — EQUILIBRIUM, KINETICS AND PROPERTIES OF SOLUTIONS (5) (W) The second in the series of physical chemistry courses: equilibrium, the relationship of the equilibrium constant to the chemical potential, catalyzed reactions, colligative properties of solutions, osmotic pressure, dipole moments and conductivity. CHE 321 is advised as prerequisite. (Lecture).

CHE 323/PHY 420 PHYSICAL CHEMISTRY III — QUANTUM MECHANICS (5)—(5) The third in the physical chemistry series: simple quontum mechanical calculations, solutions to the Schroedinger wave equation, simple harmonic oscillator, particle in a square well, the hydrogen atom, structure of atomic and molecular orbitals. Competence in fundamental colculus, including second order differential equations, is required. (Lecture).

CHE 325 PHYSICAL CHEMISTRY LABORATORY I (1) (F) Equotion of state and transport experiments taken concurrently with CHE 321.

CHE 326 PHYSICAL CHEMISTRY LABORATORY II (2) (W) Projects in thermochemistry, physical properties of solutions, and homogeneous equilibria. Taken concurrently with CHE 322.

CHE 327 PHYSICAL CHEMISTRY LABORATORY III (2) (S) Heterogeneous equilibria, reaction kinetics in solution; requires some knowledge of chemical reaction mechanisms in solution.

CHE 356/PHY 356 INTRODUCTION TO SCIENTIFIC INSTRUMENTATION (5) (W) The student learns to set up and operate such standard pieces of loboratory apparatus os bridges, amplifiers, oscilloscopes, frequency counters and thermocouple circuits utilizing chart recorders. A background in general physics is recommended.

CHE 403 ORGANIC CHEMISTRY III (5) (F-S) A look into specialized areas of organic chemistry including such topics as molecular rearrangements, photochemistry, pericyclic reactions, and heterocyclic chemistry, as well as more detailed examination of synthesis, etc. Should be occompanied by a loboratory (CHE 427 or CHE 428). (Lecture.)

CHE 404 BIO-ORGANIC CHEMISTRY (5) (W) Chemistry of naturally occurring organic compounds of biological importance. The relationship between organic chemistry and the chemical reactions which constitute the living organism. (Lecture)

CHE 405 SPECTROSCOPY AND MOLECULAR STRUCTURE (5) (W) Molecular structure and its relationship to spectroscopy. Introduction to theory and practical use of uv/visible, infrared, nmr, and mass spectroscopy. Prerequisite: Competency in organic chemistry and physical chemistry. (Lecture.)

CHE 406/PHY 411 STATISTICAL THERMODYNAMICS (5) (F) Review of the fundamental laws of thermodynamics applied to simple systems. Elementary kinetic theory of gases applied to diffusion, viscosity, thermal and electrical conductivity. Boltzmann, Fermi-Dirac and Bose-Einstein distribution functions applied in the Boltzmann limit to the calculation of thermodynamic variables. (Lecture).

CHE 407 KINETICS AND CATALYSIS (5) (F) Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Competence in fundamental calculus, including differential equations is required. (Lecture.)

CHE 412 MODERN ANALYTICAL CHEMISTRY (7) (S) A lecture-loboratory course designed to introduce instrumental methods of chemical onolysis including spectrophotometry, potentiometry, gas chromatography, atomic absorption, and polarography. Specific instrumental techniques will be covered. (Lecture and loboratory.) Prerequisites: Quantitative Analysis, Organic Chemistry, and General Physics.

CHE 421 ORGANIC SYNTHESIS (5) (F) Use of clossical 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. (Lecture.)

CHE 424 NATURAL PRODUCTS CHEMISTRY AND BIOSYNTHESIS (5) (F) Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins. (Lecture.)

CHE 426 PHYSICAL ORGANIC CHEMISTRY (5) (S) 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. (Lecture).

CHE 427 ORGANIC STRUCTURE DETERMINATION (2) (F-S) The qualitative analysis of organic compounds using modern spectroscopic and chemical methods. (Laboratory).

CHE 428 RESEARCH TECHNIQUES IN ORGANIC CHEMISTRY (2) (F-S) Practical instruction in the more advanced manipulations and procedures of the modern organic laboratory. This course is designed to prepare a student for research in organic chemistry and is a prerequisite for independent study (CHE 491) in organic chemistry. (Laboratory).

CHE 431 ADVANCED INORGANIC CHEMISTRY (5) (F) Molecular structure of inorganic compounds, periodicity, introduction to nonaqueous solvents, ligand field theory, organometallic compounds. (Lecture).

CHE 432 PHYSICAL INORGANIC CHEMISTRY (5) (W) Continuation of CHE 431. Introduction to use of physical methods to determine structure of inorganic compounds. (Lecture)

CHE 436 RADIOCHEMISTRY AND NUCLEAR CHEMISTRY (5) (S) Nuclear reactions, nuclear structure and the nature of radioactivity, properties and use of radioactive isotopes, counting techniques, fission and fusion. Thermodynamics and properties of solutions are valuable precursors. (Lecture and Loboratory.)

CHE 440 SOLID STATE (5)—(S) Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, and dielectric materials. (Lecture).

CHE 481 SPECIAL TOPICS IN ORGANIC CHEMISTRY (5) (F) An intensive examination of one or more areas selected by instructor and students.

CHE 483 SPECIAL TOPICS IN PHYSICAL CHEMISTRY (5) (W) An intensive examination of one or more areas selected by instructor and students.

CHE 485 SPECIAL TOPICS IN INORGANIC CHEMISTRY (5) (S) An intensive examination of one or more oreas selected by instructor and students.

CHE 491-492-493 RESEARCH AND INDEPENDENT STUDY IN CHEMISTRY (5-5-5) (F-W-S-SS) At any time the student chooses, from the beginning of his junior year on, he may work with a professor in a research area. The student should have a good grounding in general chemistry and preferably in organic chemistry and physics as well. He is encouraged to talk to a number of professors in the department and select that area with which he is most comfortable. It is anticipated that several actual publications will result. Variable credit with a maximum of 15 credits.

CHE 495 SENIOR SEMINAR (3) (W) During the senior year, the student will present a total of two topics, prepared from current journal articles in the field of chemistry, to other chemistry major students, environmental science students, chemistry and other science faculty.

CHE 581 SPECIAL TOPICS IN ORGANIC CHEMISTRY (5) (F) An intensive examination of one or more areas selected by instructor and students.

CHE 583 SPECIAL TOPICS IN PHYSICAL CHEMISTRY (5) (W) An intensive examination of one or more areas selected by instructor and students.

CHE 585 SPECIAL TOPICS IN INORGANIC CHEMISTRY (5) (S) An intensive examination of one or more areas selected by instructor and students.

EARTH SCIENCES

This program is interdisciplinary in nature and provides the background the student will need in professional work or graduate study. While thoroughly preparing the student in the basic sciences, the program also provides a sound knowledge of Caribbean earth sciences. Student and faculty exchanges will be promoted with their counterparts in the Caribbean. The student may choose either a Bachelor of Arts program or a Bachelor of Science program in earth sciences.

DEGREE: Bochelor of Arts

This program is for the student who desires a career in science education. This program is for the student who desires a significant background in the Earth Science for a career in science education, or in a public or private agency dealing with problems in the framework of the Earth Sciences.

LOWER DIVISION PREPARATION:

Required Courses: general biology; physical geology or the equivalent; college algebra, trigonometry, and analytical geometry; general chemistry; general physics.

Recommended Courses: Colculus

Remark: physics, chemistry, calculus courses may be taken at the University.

UPPER DIVISION PROGRAM:

		Quar	ter Hours
Required (Courses:		35
EAS 309	Modern Astronomy	5	
	Meteorology	5	
EAS 461	Paleobiology	5	
	Physical Geography	5	
EAS 331	Physical Oceanography	5	
EAS 401	Applied Environmental Geology		
	or		
WQT 330	/EVR 421 Water Resources	5	
BSC 308	Biological Oceanography	5	
Possible N	atural Science Electives:		10
BSC 306	Fundamentals of Ecology	5	
EAS 481	Cartography and Geologic Surveying	3	
PHY 307	Observational Astronomy	2	
Social Scie	nce Electives:		(45)
ANT 420	Cultures of the Caribbean	5	(- /
ECO 409	Economics of the Caribbean	5	
ECO 510	Economic Problems of Emerging Nations	5	
POS 307	Government and Politics of the Caribbean	5	
POS 409	Topics in Caribbean Politics	5	
POS 429	Conflict and Cooperation in the Caribbean	5	
			90

DEGREE: Bachelor of Science

This program provides a thorough scientific understanding of the basic sciences required for graduate study or a career in earth, marine, and atmospheric sciences.

OR

LOWER DIVISION PREPARATION:

Required Courses: 4 semester hours of general biology; 4 semester hours of physical geology or the equivalent; 4 semester hours of historical geology; mothematics (calculus I and II); 15 quarter hours or the equivalent, including laboratory, of general physics; 14 quarter hours or the equivalent, including laboratory, of general chemistry.

Remark: the mathematics, physics, and chemistry requirements may be taken at the University.

UPPER DIVISION PROGRAM:

	Quarter Hours
Required Courses: a minimum of 55 quarter hours of	
Earth Science courses is required including at least 35 quar-	
ter hours from the following courses:	55
EAS 309 Modern Astranomy	5
EAS 311 Physical Geography	5
EAS 313 Optical Mineralogy	5
EAS 331 Physical Oceanography	5
EAS 410 Meteorology	5
EAS 412 Geophysics	5
EAS 421 Structural Geology	5
EAS 461 Paleobiology	5
EAS 471 Sedimentology	5
Other Required Courses:	8
Independent Study	5
EAS 481 Cartography and Geologic Surveying	3
or the equivalent	
Electives: select courses to meet particular professional goals. Suggestions:	27

(Continued on next page)

(Continued)			
Natural Sc.	iences:		
BSC 308	Biological Oceanography	5	
BSC 360	Fundomentals of Ecology	5	
BSC 560	Morine Ecology	5	
WQT 330	/EVR 421 Water Resources	5	
EVR 441	Energy Resources	5	
Social Scie	nces:		
ANT 420	Cultures of the Caribbean	5	
ECO 409	Economics of the Caribbean	5	
ECO 510	Economic Problems of Emerging Nations	5	
POS 307	Government and Politics of the Caribbean	5	
POS 409	Topics in Caribbean Politics	5	
POS 429	Conflict and Cooperation in the Caribbean	5	
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MINOR IN EARTH SCIENCES

Required Courses: 30 quarter hours minimum; the following courses are recommended: EAS 301 Environmental Geology 5 5 EAS 302 Elements of Caribbean Geology 5 EAS 309 Modern Astronomy 5 EAS 311 Physical Geography EAS 331 Physical Oceanography 5 5 EAS 410 Meteorology EAS 461 Paleobiology 5 EAS 481 Cartography and Geologic Surveying 5

CERTIFICATE IN CARIBBEAN STUDIES

A student may earn a Certificate in Caribbean Studies by successfully completing the 30 quarter hours of social "Riences coursework listed above for the Bachelor of Science Program in Earth Sciences, or by completing six other Caribbean related courses from at least two departments.

The social science major student in the Caribbean Certificate Program may elect up to five Caribbean related earth science courses toward the six courses required for the certificate.

Recomme	nded Courses: in sequence:	
EAS 302	Elements of Caribbean Geology	5
EAS 495	Caribbean Earth Sciences Seminar	5
EAS 496	Caribbean Mineral Resources Field Trip	5

COURSE OFFERINGS

EAS 301 ENVIRONMENTAL GEOLOGY (5) An introductory course for non-majors and those desiring a cultural understanding of the earth sciences. An investigation of geological ospects affecting man and his environment. Emphasis is placed upon practical aspects of natural and man-induced geological processes affecting man's daily life. Case studies and general principles illustrated from South Florida and the Caribbean area. One field trip and a total of 10 hours laboratory work to be expected. 2 — 2 hour lectures per week: 1 — 1 hour lab per week.

EAS 302 ELEMENTS OF CARIBBEAN GEOLOGY (5) A survey of the Geology of the Caribbean and neighboring regions in view of current data and modern concepts of global tectanics. 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. A total of 10 hours of laboratory work to be expected. 2 — 2 hour lectures per week; 1 — 1 hour lab per week. Recommended: Physical Geology or EAS 301, or permission of instructor.

EAS 309/PHY 309 MODERN ASTRONOMY (5) The structure and evolution of our solar system is studied with particular emphasis on physical concepts. Topics will include ostronomical coordinate systems, celestial mechanics, the earth's motions and a description of our solar system. Recommended: College Algebra and Geometry.

EAS 310/PHY 310 MODERN ASTROPHYSICS (5) An introduction to the structure of stars and galaxies and the evolution of the universe as a whole. Topics will include otomic spectra, stellar classifications, galactic structure and cosmology. Recommended: PHY 301-303 and Calculus.

EAS 311 PHYSICAL GEOGRAPHY (5) Survey of the physical environment relevant to studies in regional geography, anthropology, biology, and earth sciences. Natural evolution of landforms and the interacting processes responsible for these features. Environmental modifications and deteriorations caused by human interactions, their socio-economic impocts and geographic problems. Case studies illustrated from South Florida and the Caribbean region. Laboratory work includes map interpretation, photogrammetry and use of aerial photographs as map supplements — illustrated from South Florida and the Caribbean. 2-2 hour lectures per week; 1-1 hour lab per week.

- EAS 312 MINERALOGY (5) Physical properties and origin of the most common minerals and the techniques of mineral identification and study, including principles of symmetry, internal structure of crystals, bonding and external form. A considerable part of time is devoted to laboratory study of minerals. Prerequisite: Physical Geology.
- EAS 313 OPTICAL MINERALOGY (5) Analytical method for the study of optical properties of minerals, including the polarizing petrographic microscope, powder and single crystal x-ray diffraction methods, and x-ray fluorescence. Prerequisite: Mineralogy or equivalent.
- EAS 331 PHYSICAL OCEANOGRAPHY (5) 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 from the Caribbean Sea, One field trip to be expected. Recommended: Physical Geology or equivalent.
- EAS 340 MINERAL DEPOSITS (5) Morphology and genetic processes involved in known occurrences of mineral deposits; structural factors governing their size, location and shape. Exploration, detection, and exploitation methods. Emphasis is placed on known and potential mineral deposits of the Caribbean and neighbouring areas. Loboratory work includes the study of ore samples and interpretation of geologic maps bearing on mineral deposits of the Caribbean. 2 2 hour lectures per week; 1 1 hour lab per week. Prerequisites: Physical Geology or equivalent, EAS 331, EAS 313, and chemistry.
- EAS 401 APPLIED ENVIRONMENTAL GEOLOGY (5) A survey of the geological and geographical factors critical to man's attempt to contend with natural processes. Construction problems, sewers, waste disposal, dams, ground water, terrain evaluation in relation to the nature of the underlying substratum. Principles illustrated from South Flarida and the Caribbean region in particular. Study of the geologic factors involved in future development and growth of these areas and conservation methods in relation to the geology of these areas. Two aptional field trips in South Florida and possible summer field work in the Caribbean area. Prerequisites: EAS 301, EAS 311, and a sound background in mathematics, physics, and chemistry.
- EAS 410/EVR 412 METEOROLOGY (5) 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 neighbouring areas, birth place of major Atlantic tropical storms. Laboratory work emphasizes the reading of weather maps, introduction to meteorologic instruments, transmission and plotting of meteorological data. 2 2 hour lectures per week; 1 1 hour lob per week. Recommended: EAS 309, EAS 311, and competence in physics and calculus.
- EAS 412 GEOPHYSICS (5) A survey of the different principles and methods of measurements of the physical properties of the earth and the moon: seismic, magnetic, electrical, thermal and gravitational. The implications of the results in terms of the earth's structure, composition, evolution and present state. Case studies illustrated from recent geophysical data from the Caribbean area and Central America. Prerequisites: EAS 301, EAS 309, EAS 311, and EAS 331.
- EAS 421 PRINCIPLES OF STRUCTURAL GEOLOGY (5) Survey of basic principles and methods in the study and analysis of geologic deformation illustrated from the Caribbean and Central American area. Recognition and interpretation of geologic structures in island areas. Mechanics of deformable bodies, fractures, faulting, brittle-ductile transition in rocks, flow and folding. Laboratory work emphasizes the interpretation of structures on Caribbean aerial photographs, geologic and topographic maps, and the study of microstructures in hand specimens of Caribbean rocks. 1 3 hour leab per week. Prerequisites: Physical Geology or equivalent, EAS 311. Recommended: EAS 412 and EAS 302.
- EAS 430 DYNAMIC GEOGRAPHY (5) Theories and techniques used in modern geographic analyses. Simple correlation and regression. Multiple regression. Surfaces and regions, and the analysis of variance. Non parametric statistics. Factorial analysis and spatial allocation models. Examples emphasize aspects of economic, urban, transportation and social geography in South Florida and the Caribbean orea. Prerequisites: EAS 311 and a sound background in mathematics.
- EAS 432 MARINE GEOLOGY (5) Survey of the main physiographic provinces of the ocean floor. Modern theories concerning the evolution of the crust; continental drift, sea-floor 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 neighbouring region. Laboratory work will consist in the analysis and interpretation of geophysical data from the Caribbean Sea. 2 2 hour lectures; 1 1 hour lob per week. Prerequisites: EAS 412, EAS 331, EAS 471, or instructor's permission.

EAS 440 GEOCHEMISTRY (5) Origin of the chemical elements of common rock-forming minerals. Atomic theory, band 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 and mathematics, and a sound background in the earth sciences.

EAS 452 DYNAMIC METEOROLOGY (5) Dynamical processes in the atmosphere. Meteorological thermodynamics and atmospheric statics. Scientific bases for modern quantitative and analytical meteorology. Variation of the wind and pressure fields in the vertical. Mechanism of pressure change; behavior of cyclones and anticyclones. Dynamic forecasting by numerical methods. Prerequisites: EAS 309, EAS 311, and EAS 410.

EAS 461 PALEOBIOLOGY (5) Development of life as traced through the fossil record. Survey of the main groups of animal invertebrotes commonly found as fossils. Theories of evolution and extinction. Study of the major microfossil groups used in biostratigraphic zonation, and as paleoecologic indicators. Microscopic study of foraminifera and radiolaria from Caribbean samples. 1 — 3 hour lecture per week; 1 — 3 hour lob per week. Prerequisites: Physical and Historical Geology, General Biology, or the instructor's permission.

EAS 471 SEDIMENTOLOGY (5) Sedimentary processes in the geological cycles as illustrated in recent environments. Different groups of sedimentary rocks. Primary and secondary sedimentary structures. Physicochemical properties and diagenetic processes. Analytical techniques applied to modern sedimentology of both loose and lithified sediments: Mechanical analyses, coloration, heavy mineral separation. Macroscopic and microscopic study of samples from South Florida and the Caribbean region. Method of interpretation of post environments. 1 — 3 hour lecture per week; 1 — 3 hour lab per week. Prerequisites: Physical geology or equivalent, EAS 313, and a sound background in mathematics and chemistry.

EAS 481 CARTOGRAPHY AND GEOLOGIC SURVEYING (3) A three-week course to be offered in the United States or in one of the Caribbean islands. The course is designed for Earth Science majors. Methods in cartographic drafting, compilation, design and evaluation. Methods of geologic surveying. Use of plane table, topographic maps and air photographs. Students unable to attend this course at FIU are encouraged to take a similar field course given at other institutions as substitute. Prerequisites: EAS 311 and EAS 421.

EAS 491-492 INDEPENDENT STUDY (5-5) 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 with a maximum of 10 credits. Prerequisites: Permission of the student's advisor.

EAS 495 CARIBBEAN EARTH SCIENCES SEMINAR (5) 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. Prerequisites: EAS 302 or Instructor's permission.

EAS 496 CARIBBEAN MINERAL RESOURCES FIELD TRIP (5) A three-week field course in at least two Caribbean islands. Cursory review of the geologic factors governing the occurrence, size, and economic value of mineral deposits. Emphasis is on bauxite, copper, and energy resources. Visit to selected regions of active exploitation and processing plants, as well as abandoned mines, and potential sites of future exploitations. Prerequisites: EAS 302, EAS 495, or instructor's permission.

EAS 501 CARIBBEAN SHALLOW-MARINE ENVIRONMENTS (5) Four-week field study of multiple tropical environments as illustrated in the Caribbean. Physico-chemical processes in the near-share arenaceous, argillaceous and calcareous environments. Coral reef morphology, ecology and distribution patterns. Dynamical processes acting on the near-share environments and their effects on reef growth and distribution. Reef bioerosions. Coastal evolution in response to natural processes. In-site study of some similar emerged environments in the Caribbean islands. Economic importance of tropical shallow-marine environments in world's 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.

EAS 561 CARIBBEAN STRATIGRAPHIC MICROPALEONTOLOGY (5) Survey of the stratigraphy of biostrotigraphic 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. Poleobiogeographic and paleoecologic considerations. Considerable amount of time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GEO 461 or the instructor's permission.

ENVIRONMENTAL STUDIES

This program prepares environmentalists in such fields os political science, economics, sociology, and the humanities and scientists with environmental awareness, who desire to work in areas dealing with the natural environment. The student may choose either a Bachelor of Arts (non-science) program or a Bachelor of Science (science) program of study in environmental studies.

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Recommended Courses: natural history of South Florida, conservation of natural resources, man and environment, college algebro (for economics and political science concentration only).

Remark: recommended courses which may be taken at the University: POS 321 The Legislative Process or POS 314 Politics in Public Bureaucracy; ECO 301 Economics, Man, and Society.

Nate: A student with an Associate of Arts degree is adequately prepared to enter the pragram. A student with an Associate of Science may wish to enroll in the programs of the School of Technology, but may also be prepared to enter the Environmental Studies Program. An advisor should be consulted.

UPPER DIVISION PROGRAM:

Ac

		Quarte	r Hours
Required C	ourses:		43
EVR 301-3	102-303 Environmental Science	15	
BSC 360	Fundamentals of Ecology	5	
ECO 319	Introduction to Environmental Economics	5	
MAS 310	Computers and Society		
	or		
MAS 398	Mathematical Ecology	5	
POS 439	Environmental Politics and Policy	5	
EVR 491	Independent Study	5	
EVR 515	Environmental Field Studies of So. Florida	3	
dditional Co	ourses: the student may elect one of the following areas of		
ncentration:			47
1. Genera	I Environmental Studies: select four courses from the follow	wing:	
EVR 421	Woter Resources	5	
EVR 431	Air Resources	5	
EVR 441	Energy Resources	5	
EAS 401	Applied Environmental Geology	5	
	Mineral Resources	5	
POS 552	Environmental Planning and Law	5	
ECO 421	Land and Resource Economics	5	
SOC 351	Population Analysis	5	
PHR 426	Man and Nature	5	
PSY 410	Environmental Psychology	5	
2. Econom	ics — Political Science:		
ECO 307	Theory of Price	5	
ECO 421	Land and Resource Economics	5	
POS 421	Government and Politics of the U.S.	5	
POS 552	Environmental Planning and Law	5	
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Remark: in special cases, equivalent courses may be substituted with the consent of a faculty advisor.

OR

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Recammended Courses: college algebra, conservation of natural resources, general biology, general chemistry, man and environment, natural history of South Florida, physical geology.

Remark: recommended courses which may be taken at the University: MAS 301-302 Calculus (except for environmental biology); ECO 301 Economics, Man, and Society; PHY 301-303 or PHY 305-307 Physics; POS 301 or 321 The Legislative Process.

UPPER DIVISION PROGRAM:

		Quarter Haurs
Required C	ourses:	40
BSC 360	General Ecology	5
ECO 319	Introduction to Environmental Economics	5
EVR 401-4	02 Survey of Environmental Problems	10
MAS 311	Introduction to Computers	
	or	
MAS 398	Mathematical Ecology	5
POS 439	Environmental Palitics and Policy	5
EVR 491	Independent Study	5
	At least one course from the electives listed	_
	under the particular concentration	5
	(C . C	

Additional Cou of concentration: 1. AIR QUALITY		the following areas	50
Required:			
	Quantitative Analysis	5	
	2 Organic Chemistry	14	
	ir Resources	5	
	/R 412 Meteorology	5	
Electives:	,		
	strumentation	5	
	Aodern Analytical Chemistry	5	
	hysical Chemistry for Life Sciences	5	
	nergy Resources	5	
	hermodynamics	5	
2. WATER QUA			
Required:			
	Quantitative Analysis	5	
	hysical Chemistry for Life Sciences	5	
	Vater Resources	5	
	in Aquatic Biology	10	
	Seochemistry	5	
Electives:	•		
	nstrumental Analysis	5	
	Addern Analytical Chemistry	7	
	edimentology	5	
	luid Mechanics	5	
3. ENERGY ANI			
Required:			
	03 Physics with Calculus (if not		
	ompleted in the lower division	15	
	hermodynamics		
C 021 .	or		
CHE 311 F	Physical Chemistry for Life Sciences	5	
	arth Physics	5	
	nergy Resources	5	
	Aineral Resources	5	
Electives:			
	Air Resources	5	
EAS 312 /		5	
	Vater Resources	5	
	Geachemistry	5	
	Nuclear Chemistry	5	
4. MARINE ECC			
Required:			
	Nater Resources	5	
	Oceanography	5	
	Biological Oceanography	5	
	General Microbiology	5	
Electives:	··-·		
	Tropical Botany	5	
	The Invertebrates	5	
	Quantitative Analysis	5	
	Marine Ecology	5	
	IVIRONMENTAL SCIENCE:		
Required:			
•	Water Resources	5	
	Air Resources	5	
	Energy Resources	5	
	Quantitative Analysis	5	
	ect from ony of the courses in the other		
concentration			

COURSE OFFERINGS

EVR 301 ENVIRONMENTAL SCIENCE I (5) (F) A course for non-science majors offering fundomental principles of chemistry, physics and biology in an environmental framework. The purpose is to increase scientific literacy and environmental awareness of non-scientists. No particular preparation required. Recommended for all elementary and non-science secondary school teachers. The course provides enough science background so the student may take further courses in chemistry or biology.

EVR 302 ENVIRONMENTAL SCIENCE II (5) (W) Continuation of EVR 301.

EVR 303 ENVIRONMENTAL SCIENCE: SPECIAL PROBLEMS (5) (S) Continuation of EVR 302.

EVR 312 TOPICS IN ENVIRONMENTAL STUDIES (5) An intensive analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 401 SURVEY OF ENVIRONMENTAL PROBLEMS I (5) (W) 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 402 SURVEY OF ENVIRONMENTAL PROBLEMS II (5) (S) A continuation of EVR 401.

EVR 412 METEOROLOGY (5) The earth's otmosphere and its physical properties. General circulation and thermal structure of the atmosphere on a global and local scale. Physics and dynamics of clouds. Weather systems including temperature and tropical storms, air masses and seasonal variations. Competence in physics and colculus is required.

EVR 421 WATER RESOURCES (5) A seminor dealing with various aspects of water use, water pollution problems, chemistry and ecology of South Florida's waters. A thorough background in fundamental chemistry, biology and ecology is recommended.

EVR 431 AIR RESOURCES (5) Common air pollutants and their sources and methods of control. Different legislative and administrative approaches will be studied.

EVR 441 ENERGY RESOURCES (5) Seminor dealing with power and energy production in modern society, fundamental energy relationships of industrial and domestic processes.

EVR 491-492 RESEARCH AND INDEPENDENT STUDY (Var) The student works with a professor on a research project.

EVR 512 TOPICS IN ENVIRONMENTAL STUDIES (5) An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 515 SOUTH FLORIDA ECOLOGY: FIELD STUDIES (5) (W,S) An introduction to the ecology of South Florido through a series of field trips into several unique ecosystems, such as the Everglades, hordwood hammocks, and coastal regions. No science background required.

EVR 581 SPECIAL TOPICS (5) (W) A graduote-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

EVR 591 RESEARCH AND INDEPENDENT STUDY (Var) The student works with a professor on a research project. Variable credit.

POLITICAL SCIENCE MAJOR

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Recommended Courses: American government, ecology, economics, foreign language, history, international relations, introduction to statistics, psychology, sociology, onthropology, state and local government.

UPPER DIVISION PROGRAM:

major:	Quarter Hours
Breadth Requirements:	25
One 5-credit course in each of the following fields: Com-	
parative politics (CP); international politics (IP); political	
theory (PT); public law (PL); public policy and administra-	
tion (PP)	
Depth Requirements:	25
Five courses from any one of the following areas: interna-	
tional and comparative politics; political theory and analy-	
sis; public policy, law, and administration	
Remark:	
One course designated AP (Politics and the Arts) may be	
substituted for one course in the depth requirement	
Electives:	40
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Minor:

Required Courses: Any five lecture courses; 25 quarter hours

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 prelaw student include: (1) how to think logically, (2) how to read intelligently, and (3) how to express oneself clearly. These skills are developed in any discipline or field. 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 on one broad area. For most pre-law students, that area may be public law, policy, and administration. The Department will counsel a student on prelaw school concerns and preparation as an integral part of its overall advising program. In addition, special apportunities will be available to a student who is interested in participating in judicial internships.

Public-Afairs Internship — The Department provides the student at several different levels with opportunities for work-study experiences in governmental and non-governmental agencies. There are five categories of internships available to students: (1) judicial internships, (2) administrative internships, (3) legislative internships, (4) urban internships and (5) international internships. Standards for enrollment as an intern student include:

- Enrollment is by permission of instructor only. A student wishing to enroll as a public
 affairs intern should consult with the appropriate faculty member and receive written
 permission to enroll. Ordinarily, specified courses must be taken prior to or concurrent
 with the internship.
- A Political Science major may count a maximum of 10 credit hours in internships toward his major. Five additional hours may be counted as electives for a maximum of 15 credit hours in internship in Political Science.
- 3. All public affairs internships in Political Science will be on a "Credit No Credit" basis. For further information, contact the Department of Political Science.

Evaluation of Student Records and Transcripts — As a general rule, students will receive transfer credits for junior and senior level courses in political science with a grade of C or better. These courses may then be applied to the 50 credit hour requirement for majors in political science.

Senior Honors Program — For a select number of exceptional seniors. This program will approximate some of the advantages of the seminar and tutorial system in the context of a large urban university.

COURSE OFFERINGS

POS 301 FOUNDATIONS OF POLITICAL SCIENCE (5) Introduces the student to the major fields of political science. Attention is given to the concepts, definitions, and terminology used in the discipline. Intended for the nan-major. Elective credit only for political science majors.

POS 302 METHODS OF POLITICAL ANALYSIS (5) Introduction to methods of collecting, analyzing and evaluation information to answer questions about politics. Includes formulation of research problems, ways to collect and summarize information, measures of relationship and of risk, and interpretation of research findings. Strongly recommended for students planning graduate study. (PT)

POS 303 THEORY AND ANALYSIS OF PUBLIC POLICY (5) An intensive examination of the theory and practice of farmulating, legitimizing, administering, and evaluating public policy. Includes a discussion of the role of administrators, legislators, courts, interest groups and political parties in these processes. Gives the student an analytical basis for understanding and participating in the making of public policy in a variety of policy areas. (PP)

POS 304 GOVERNMENT AND POLITICS OF SOUTH AMERICA (5) A crass-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 rale of the military and to the problem of violence in the area. Designed to give the student on averview of the political life of the nations with whom we share this hemisphere. (CP)

POS 306 DYNAMICS OF INTERNATIONAL POLITICS (5)

An examination of the nation-state system. Attention is given to the use of force in international affairs, as well as those arganizations, such as the United Nations, which have an international dimension. The course should aid the student in understanding the complexities of world politics. (IP)

POS 307 GOVERNMENT AND POLITICS OF THE CARIBBEAN (5) Studies the political system of the major British, French, Dutch, and Spanish areas in the Caribbean basin. Although attention is focused an such factors as political party systems, farms of government, and regional politics, emphasis is placed on the developmental problems confronted by small democracies in a nanindustrial setting. Discusses the paradoxes between madernity and tradition throughout the developing Caribbean and the relationship between politics, ecanomics, and culture. Helps the student 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)

POS 308 GOVERNMENT AND POLITICS OF CHINA (5) An intensive examination of the major political institutions of mainland Chino. A critical analysis of changing aspects of traditional relationships in Chinese political culture and major reform movements in contemporary Chinese politics. Allows the student to better understand a nation whose political development will be an important factor in global development. (CP)

POS 311 ANCIENT AND MEDIEVAL POLITICAL THEORY (5) A study of the major political philosophers of the Ancient and Medieval periods. Primary emphasis will be given to the Greek experience. The nature of political theory as a tradition of discourse will be examined. (PT)

POS 312 STATE — LOCAL POLITICAL PROCESSES (5) A study of the political processes, structure, and development of state and local political systems. This course attempts to provide students with an understanding of the basic structure of government and its relationship to local politics. (PP)

POS 313 GOVERNMENT AND POLITICS OF THE SOVIET UNION AND EASTERN EUROPE (5) An intensive examination of the political structures and institutions of the Soviet Union and East European Communist states. Particular attention will be paid to the historical and cultural underpinnings of the Soviet regime. The rale of Marxist-Leninist idealogy in shaping policy processes and content will be given careful analysis. (CP)

POS 314 POLITICS OF PUBLIC BUREAUCRACY (5) An intraduction to the political environment of administrative decision making in public agencies. Special emphasis is placed upon the politics of budgeting, personnel management, arganizational requirements, and policy making. (PP)

POS 316 GOVERNMENT AND POLITICS OF CENTRAL AMERICA (5) Examines the political systems of the countries of Central America. 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 should develop a better understanding of a region which has close ties to the United States. (CP)

POS 317 THEORY AND METHODOLOGY OF INTERNATIONAL POLITICS (5) An intensive exomination of the varied approaches to the consideration of international relations. Gives the student an analytical basis for the understanding of relations among states. (IP, PT)

POS 321 THE LEGISLATIVE PROCESS (5)

Examines the context and pracess of legislative decision-making, including the impact of elections, groups, bureaucracies and the narms of legislative behavior on legislative decisions. Evaluates legislatures in light of various theories of representation and conflict-management. (PP, PL)

POS 322 MODERN POLITICAL THEORY I (5) An analysis of the political thought of the great political thinkers since Machiavelli, culminating with the Nineteenth Century theorists. Basic themes and ideas comman to all these political theorists will be discussed in detail. The problem of "modernity" will receive special attention. (PT)

POS 323 URBAN POLITICS (5) An examination of the pracesses by which social canflicts in American urban areas are represented and regulated. Emphasis is placed an how urban problems are identified and proposed salutions are farmulated, legitimized, and administered by urban policy making pracesses. Includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas. (PP)

POS 326 THEORIES OF LATIN AMERICAN POLITICS (5) Studies the dynamics of Latin American politics with an emphasis an the rale of the military, and the church. Also considers alternative strategies for madernizing the region. (IP,PT)

POS 331 THE JUDICIAL PROCESS (5) 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. (PL,PP)

POS 333 CONTEMPORARY POLITICAL THEORY (5)

An overview of the major conceptual frameworks used by political theorists to describe, to explain, and to evaluate political behavior and processes. Stress is placed upon political theory not only as a basis for inquiry but also as a base for political action. Will enable the student to develop analytical abilities with which he can interpret the political events of his time. (PT)

POS 338 RACE AND POLITICS IN THE CARIBBEAN (5) A discussion of the entry of different ethnic and cultural groups in the Caribbean area and an examination of their impact, by the application of specific concepts, upon the political processes and political development in certain states. (CP)

POS 339 INTERNATIONAL LAW (5) The low 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 nonWestern perspectives. Examines the emerging body of transnational law in social, economic, and technological areas of international relations. Enables the student to appreciate the problems involved in structuring conflict in international relations. (IP, PL)

POS 341 POLITICAL PARTIES (5) Studies the internal structure, political functions, and behavior of modern political parties. Attention is given to the relationships between political parties and various economic, military, ethnic, and regional interests. Enables the student to understand the problems of expressing and structuring political demands to facilitate or obstruct governmental decision moking. (PP)

POS 343 CONSTITUTIONAL LAW: POWERS (5) An examination of the basic principles of American government as defined through constitutional law. Focus will be upon the nature of the union, federalism, national government powers, separation of powers, state government powers, and the powers of the respective branches of government. (PL)

POS 344 CONSTITUTIONAL LAW: LIMITATIONS (5) An examination of the limitations upon 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. (PL)

POS 345 URBAN GOVERNMENT AND ADMINISTRATION (5) A study of the organization, administrative decision-making, and process of urban government; interaction with the political process. This course of tempts 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. (PP)

POS 348 INTERNATIONAL ORGANIZATION (5) An analysis of the factors and problems involved in administering change on a transnational basis. Stress is placed on the difficulty of applying legal norms to the international arena. Attention is given to those organizations, expecially the United Nations, which are entrusted with implementing international agreements. Enables the student to understand the difficulties involved in maintaining world peace. (IP)

POS 401 POLITICAL COMMUNICATION AND PUBLIC OPINION (5) The way in which political beliefs, attitudes, and roles are learned from childhood through life. Discusses the impact of widely held feelings on the policy-making process and the relationship of such concepts as "image" on public opinion. Aids the student in understanding his own political beliefs. (PP)

POS 403 CUBAN POLITICS (5)

Examines the course of Twentieth Century Cuban politics. It is subdivided into five parts, involving the three periods of relatively stable politics and the two major revolutions which took place. (CP)

POS 404 POLITICS OF THE THIRD WORLD (5) A consideration of the problems and factors which both retard and generate political life in developing countries. Includes a discussion of the role of ideology in these nations. Enables the student to appreciate the difficulties of applying Western political norms and values to non-Western cultures. (CP)

POS 405 GOVERNMENT AND POLITICS OF WESTERN EUROPE (5) Studies the 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 student to better understand the nations which have supplied many of the theoretical foundations of modern politics. (CP)

POS 407 INDEPENDENT STUDY (VAR) By arrangement with the instructor.

POS 408 ALTERNATIVE POLITICAL FUTURES (5) Explores the political dimensions of the future. Examines alternative political systems and institutions from the perspective of political ideas. Special attention will be given to assessing and extrapolating current political trends into the future. (PP,PT)

POS 409 TOPICS IN CARIBBEAN POLITICS (5) An intensive examination of selected topics dealing with the Caribbean area. The subjects will vary, depending upon the desires of both students and faculty. (CP)

POS 411 THE PRESIDENCY (5) An examination of the various interpretations of the Presidency. Attention is directed to the role of the President in a technocratic society. Enables the student to understand one of the most visible political institutions. (PP)

- POS 413 AMERICAN FOREIGN POLICY (5) An examination of the legal, administrative, and political structure by which American foreign policies are formulated and implemented. Includes a discussion of the objectives and consequences of United States foreign policy in selected regional, social-economic, and ideological areas. Enables the student to understand the procedures by which foreign policy is made and implemented in the United States. (IP, PP)
- POS 417 ISSUES IN THE ADMINISTRATION OF PUBLIC POLICY (5) An analysis of the policy consequences of majar issues facing political executives and administrators, including planning for the year 2000, bringing government closer to the people, the pathologies of bureaucratization, technology assessment, quantification aids in decisian making, needs for policy advice, and experiments in organizational forms. (PP)
- POS 421 GOVERNMENT AND POLITICS OF THE UNITED STATES (5) An examination of the origin and development, structure and aperation of the government of the United States, with an emphasis on the characteristics and political consequences of federalism. Allows the student to have a better understanding of the political system in which he lives. (PP)
- POS 422 MODERN POLITICAL THEORY II (5) An analysis of the political thought of the great political thinkers of the late Eighteenth, Nineteenth, and early Twentieth Centuries. Primary emphasis will be 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 will be extensively analyzed. (PT)
- POS 423 TOPICS IN URBAN POLITICS AND POLICY (5) An examination of the processes by which sociol conflicts in American urban areas are represented and regulated. Emphasis is placed on how urban problems are identified and propased solutions are 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. (PP)
- POS 427 AMERICAN POLITICAL THOUGHT (5) An examination of American political thought from its 17th Century arigins to the contemporary period. The continuities and discontinuities in the development of American political ideas since colonial times will receive special attention. (PT)
- POS 429 CONFLICT AND COOPERATION IN THE CARIBBEAN (5) An analysis of the institutions and processes promoting and inhibiting regional cooperation in the Caribbean area. Designed to enable the student to appreciate the trend toward regionalism and the problems of interstate relations in this microcosm of the world. (CP, IP)
- POS 431 POLITICAL VIOLENCE AND REVOLUTION (5) An examination of political violence and revolution in caping with and solving political problems. Includes a comparative discussion of the role of violence and revolution in other countries. Enables the student more clearly to understand the manifestations of political violence and revolution in the political events of his own time. (PT)
- POS 437 POLITICAL AND SOCIAL CHANGE IN LATIN AMERICA (5) The major internal and external factors making for change in Latin America, such as industrialization, land reform, bureaucratic professionalism, and education. The role of the United States as a change agent in the area receives special attention. Enables the student to understand the dynamics of change in this important area and to compare these processes with events in his own country. (CP)
- POS 439 ENVIRONMENTAL POLITICS AND POLICY (5) A systematic examination of environmental policy making which emphasizes the various steps invalved in transforming private preferences into authoritative public policies. Special attention is directed at the unique political problems pased 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 averlapping policy matrices which constrain environmental action. Should enable student to identify critical decision points in the environmental policy-making process. (PP)
- POS 441 POLITICS OF AUTHORITARIANISM (5) The course is designed to analyze the circumstances giving rise to non-totalitarian modern dictatorships, their political dynamics and their survival capability. (CP)
- POS 442 JUDICIAL BEHAVIOR (5) An examination of the various approaches, theories, and findings on how judicial actors behave, 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. (PL)
- POS 444 POLITICAL IDEOLOGIES (5) An analysis of modern political ideologies since the French Revolutian, including liberalism, conservatism, and socialism. Particular emphasis will be given to Marxism. The contemporary link between ideology and totalitarianism will be examined. (PT)
- POS 445 URBAN POLITICAL LEADERSHIP (5) A theoretical analysis and interpretation of urban political leadership with a special emphasis on the structure of political power and the decision-making process. This course attempts to provide students with an understanding of the basic structure of urban political leadership. The attitudes and values of urban political elite will also be examined. (PP)
- POS 452 INTEREST GROUP POLITICS (5) An examination of the various types of valuntary associations which seek to influence the political process. Special attention is given to the rale 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. (PP)

POS 455 POLITICS AND THE ARTS (5) Employs the arts as a tool of analysis for political science. Includes literature, painting, music, and film. Special attention is given to the relationship between popular culture and political system. (PT)

POS 461 TOPICS IN POLITICS (VAR) Subject matter varies according to instructor.

POS 462 COMPARATIVE JUDICIAL POLITICS (5) An examination of the various modes of dispute settlement and rule adjudication cross-culturally. Emphasis will be upon the similarities and differences of judicial behavior, judicial decision-making, judicial recruitment, and judicial powers in cross-national analysis. (PL, CP)

POS 463 ETHNIC POLITICS (5) An examination of the influence of major ethnic groups on American politics. Special attention will be given to black, Cuban-American and Puerto Rican interest groups. (PP)

POS 469 POLITICAL FOUNDATIONS OF INTERNATIONAL LAW (5) An examination of the interaction between politics and international law with particular emphasis upon 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, PL)

POS 471-472-473-474 (PUBLIC AFFAIRS INTERNSHIPS) (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 471 — LEGISLATIVE INTERNSHIP

POS 472 — JUDICIAL INTERNSHIP

POS 473 — ADMINISTRATIVE INTERNSHIP

POS 474 — INTERNATIONAL INTERNSHIP

POS 481 TOPICS IN EDUCATIONAL POLICY (VAR) An intensive examination of selected topics dealing with educational policy. The subjects will vary, depending upon the desires of both students and faculty.

POS 484 POLITICAL URBAN TRANSPORTATION DECISION-MAKING (5) A study of urban transportation decision-making processes, with a special emphasis on the citizen participation, the pattern of mobilization of the community support for/or against transportation policies, and the interaction with the local, state, and federal officials. The course attempts to provide students with an understanding of the decision-making process with respect to the urban transportation policy planning. The role of citizen participation, mobilization process, and their interaction with the public officials, will be analyzed. (PP)

POS 486 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 chaose topics of particular interest to him.

POS 488 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 desires of both students and faculty. Allows the student to choose topics of particular interest to him.

POS 491 HONORS SEMINAR (VAR) Subject matter varies according to instructor.

POS 492 HONORS SEMINAR (VAR) Subject matter varies according to instructor.

POS 493 HONORS SEMINAR (VAR) Subject matter varies according to instructor.

POS 495 POLITICAL URBAN JEWISH LEADERSHIP (5) A study of the leadership structure of the Jewish community with special focus upon the Jewish elite integration process within the community power structure. The course attempts to provide students with an understanding of the nature of Jewish leadership structure and their role in the community social and political system. (PP)

POS 518 INDEPENDENT STUDY (VAR) By arrangement with the instructor.

POS 552 TOPICS IN PUBLIC POLICY (VAR) An intensive examination of selected topics dealing with public policy. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him.

POS 553 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 both students and faculty.

POS 556 TOPICS IN POLITICS AND THE ARTS (5) An intensive examination of selected topics in the field of politics and the arts. Subjects will vary, depending upon the desires of both students and faculty. (AP)

POS 559 THE MULTI-NATIONAL CORPORATION AND CARIBBEAN DEVELOPMENT (5) An analysis of the development and role of the multi-national corporation in the Caribbean area, emphasizing its implications for the political and economic development of certain states. (CP, IP)

POS 566 TOPICS IN POLITICAL THEORY (VAR) An intensive examination of selected topics dealing with political theory. The subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of porticular interest to him.

POS 572 TOPICS IN POLITICS (VAR) Subject matter varies occording to instructor.

POS 587 TOPICS IN INTERNATIONAL LAW (VAR) An intensive examination of selected topics in international law. Subjects will vary, including far 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.

POS 588 TOPICS IN COMPARATIVE POLITICS (VAR) An intensive examination of selected political topics from a cross-notional point of view. The subjects will vary, depending upon the desires to both students and faculty. Allows the student to choose topics of particular interest to him.

POS 607 SEMINAR IN POLITICAL THEORY (VAR)

POS 615 SEMINAR IN PUBLIC POLICY (VAR)

POS 617 SEMINAR IN INTERNATIONAL POLITICS (VAR)

POS 618 SEMINAR IN URBAN SYSTEMS (VAR)

POS 683 TOPICS IN POLITICS (VAR) Subject matter varies according to instructor.

PSYCHOLOGY MAJOR

DEGREE: Bachelor of Arts

LOWER DIVISION PREPARATION:

Required course: introductory psychology

Recommended courses: physics, history, saciology, philosophy, economics, mothematics LIPPER DIVISION PROGRAM:

	Quarter Hours
Required Courses:	22
PSY 349 Advanced General Psychology with Lab (Junior year)	7
One other lab or field experience	7
MAS 307 Introduction to Statistics I (Junior year)	5
MAS 308 Introduction to Statistics II (Junior year)	3
Additional Psychology Courses	31-46
Recommended:	
PSY 489 Overview of Psychology (the student planning to	
take the psychology speciality part of the Graduate Re-	
cord Examination is strongly advised to take this course)	
Courses other than Psychology and Statistics	22-37
	90

Remarks: (1) The student is strongly urged to cantact 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.

Bachelor degree with Honors:

Application must be made and departmental approval granted before the third quarter of the junior year to undertake an independent project which must be approved by and carried out under the supervision of a member of the Department. Upon completion of the study, a satisfactory oral defense of the work must be presented to a Departmental 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.

COURSE OFFERINGS

PSY 300 INTRODUCTORY PSYCHOLOGY (5) (F,SS) Psychological principles underlying basic processes such as perceiving, learning, thinking, mativation and emotions. Students will be introduced to theories and research methods in terms of their contributions to contemporary psychology. This course will not count towards the major in psychology. It is designed for non-majors and is a prerequisite for majors who have not had an introductory course in psychology.

PSY 305 INTRODUCTORY EDUCATIONAL PSYCHOLOGY (5) (F,W,S,SS) An introduction to the ways in which the principles of psychology apply to educational practices, considering aspects of the basic pracesses such as development, learning, individual differences and adjustment, with special reference to the problems of teacher effectiveness and teacher-student interaction. This course is designed for students who have not had a prior caurse in Educational Psychology. While not designed as a course for Psychology majors, it may, under special petition, be counted as meeting an elective requirement in Psychology.

PSY 307 HUMAN GROWTH AND DEVELOPMENT (5) (F,S,SS) An introductory study of the development of personality, intelligence, and motivation from childhood to adulthaad, emphasis will be placed on development of cognitive systems through social learning. This course is designed primarily for students enrolled in the Schools of Education and Health and Social Services. Students planning to major in Psychology should enroll in PSY 330.

PSY 310 PSYCHOLOGY OF WOMEN (5) (F) An examination of women from various perspectives, such as biological, anthropological, mythological, religious, historical, legal, sociological and psycho-onalytical points of view. Discussion of how these various perspectives influence the psychological development of contemporary women.

PSY 311 PSYCHOLOGY OF DRUGS AND DRUG ABUSE (5) (W) This course will cover some basic information about the nature and effects of the families 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.

PSY 320 INTRODUCTION TO COMMUNITY PSYCHOLOGY (5) (F,S) An introduction to the issues and scope of community psychology. Students will be exposed to the development of community psychology as a growing discipline. Particular emphasis will be placed on the role of the community psychologist as an agent of social change.

PSY 321 PSYCHOLOGY OF RACISM (5) (W) Consideration will be given to the nature and development of institutional racism in America. The historical, social, economic and psychological aspects of racism will be examined.

PSY 330 INTRODUCTORY DEVELOPMENTAL PSYCHOLOGY (5) (F,W,SS) An introduction to human development focusing on infancy and childhood. Particular attention will be devoted to intellectual, personality, and social development. Cansideration will be given to both theoretical and empirical perspectives. This course or its equivalent must be completed successfully before students may enroll in most 400 and 500 level courses in developmental psychology.

PSY 331 PSYCHOLOGY OF ADOLESCENCE (5) (W) An examination of the psychological, sociological and biological factors contributing to the changes from childhood to adolescence and from adolescence to young adulthood.

PSY 332 PSYCHOLOGY OF ADULTHOOD (5) (S) The transition from youth to middle age will be studied. Focus will be placed on changing roles in family, work, and societal settings as these factors influence personality and other aspects of psychological function.

PSY 349 ADVANCED GENERAL PSYCHOLOGY WITH LABORATORY (7) (F,W,S) An intensive lecture and laboratory course designed to present the basic concepts and methods of traditional and contemparary psychology. Emphasis will be placed on the role of methodology and experimentation in all phases of psychology. Students will study sensory systems, information processing, perception and other psychological processes. In addition to classroom experience, students will participate in laboratory exercises designed to illustrate concepts covered in lectures. The laboratory aspect of the course will provide students with an opportunity ta develop and use skills and techniques employed in the execution of human psychological experiments, and will meet requirements of a laboratory course in experimental psychology. This course is required of all psychology majors and must be completed during the first year of residence.

PSY 350 INTRODUCTORY INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (5) (F,W) Introduction to the study of behavior in the work environment. Illustrative topics include formal and informal organization, work motivation, satisfaction and performance, leadership, job analysis, selection, and performance evaluation, training and development, advertising and consumer behavior, and industrial clinical psychology.

PSY 360 THEORIES OF PERSONALITY (5) (F,S) An examination of various theories of personality. Consideration will be given to traditional and contemporary approaches to personality development.

PSY 361 MOTIVATION AND EMOTION (5) (F,W) Introduces several perspectives from learning theory, perception, and personality theory to explore why and haw people move through their physical and social environment.

PSY 362 PERSONAL ADJUSTMENT (5) Study of personal adjustment in the social and accupational life of the individual. Emphasis on interpersonal aspects of effective behavior.

PSY 370 INTRODUCTORY SOCIAL PSYCHOLOGY (5) (F,W) Introduction to the study of the relationship of the individual to Social Systems including topics such as social behavior, attitude development and change, social conflict, group processes, mass phenomena and communication.

PSY 372 PSYCHOLOGY OF GIVING, HELPING AND VOLUNTEERING (5) Theories, research data, and community applications of prosocial activities, such as giving, helping, valunteering and altruism.

PSY 410 ENVIRONMENTAL PSYCHOLOGY (5) (W) An introduction to the man-environment interaction, including psychological, sociological and physical aspects.

PSY 412 PSYCHOLOGY OF LANGUAGE (5) (W) An overview of the psychology of language and the psychological "reality" of linguistic structures, behavioristic vs. cognitive views of psycholinguistics will be examined. Consideration will be given to the biological basis of language, language and thought, language acquisition, and language pathology.

- PSY 413 PRINCIPLES AND THEORIES OF BEHAVIOR MODIFICATION (5) (S) Studies different approaches to the modification of problem behavior through the application of learning principles and theories.
- PSY 420 PSYCHOLOGY OF SOCIAL CHANGE (5) (W) An examination of methods of implementing institutional change. Consideration will be given to alternatives such as violent vs. non-violent confrontation, the use of information as an instrument of change and others.
- PSY 421 TOPICS IN COMMUNITY PSYCHOLOGY (5) (S) Various topics and current methods in community psychology will be covered. Students enrolled in this course will focus on the psychological aspects of various community problems such as drugs, racism, overpopulation, ecology, militarism, women's liberation, the youth movement, etc.
- PSY 422 PSYCHOLOGY OF CONFLICT (5) This course examines the psychological factors involved in conflict situations. The focus is upon intrapersonal, interpersonal and intergroup conflict resolution and will attempt to determine their applicability to various conflict conditions such as racial, religious or international wars. The course will also consider the ultimate disintegration of the individual personality as a result of internalized conflict and will attempt to familiarize students with the psychological factors underlying varying conditions of conflict and its ultimate resolution.
- PSY 429 COMMUNITY PSYCHOLOGY FIELD EXPERIENCES I (7) (F) Students will be organized into task oriented teams or will work independently in the community for the purpose of becoming familiar with various community institutions and for developing an action plan for assisting institutions in implementing change. Students enrolled in this course should have successfully completed Introductory Community Psychology.
- PSY 430 LANGUAGE ACQUISITION (5) (S) An examination of how children acquire language, based on experimental findings from contemporary linguistic, psycholinguistic and behavioral theory.
- PSY 431 COGNITIVE DEVELOPMENT (5) (S) An examination of developmental changes in the nature of children's thought processes. Particular emphasis will be given to the theories of Jean Piaget. Prerequisite: Students should have successfully completed a course in introductory developmental psychology or its equivalent.
- PSY 432 CHILDREN'S LEARNING (5) (W) Learning in infancy and childhood with particular emphasis on simple conditioning, discrimination shifts, mediation, transposition, observational and concept learning. Students enrolling in this course should have completed successfully at least one prior course in developmental psychology.
- PSY 433 SOCIAL AND PERSONALITY DEVELOPMENT (5) (W) An examination of the genetic, familial, and societal factors influencing the development of a child's personality and his social behavior. (Offered alternate years.)
- PSY 434 GERONTOLOGICAL PSYCHOLOGY (5) An examination of the factors which contribute to the psychological profile characterizing old age. Biological and sociological components will be considered and their impact on perceptual, cognitive, and personality processes will be analyzed. Students enrolling in this course should have successfully completed at least one prior course in developmental psychology.
- PSY 435 MORAL AND CHARACTER DEVELOPMENT (5) (F,W,S) The course is intended to be a critical survey of psychological theories and psychological research concerning the development of moral attitudes and behavior; and the application of research in moral development to social problems. Emphasis will be given to those theories that hove generated a substantial body of empirical research. The major theories to be reviewed will 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.).
- PSY 439 DEVELOPMENTAL PSYCHOLOGY LABORATORY (7) (F,S) Laboratory/observation exercises illustrative of the concepts and research techniques used in developmental psychology. Particular emphasis will be given to cognitive and social-cognitive development.
- PSY 440 CURRENT EXPERIMENTAL THEORIES (5) (F,S) The stress in this course is upon current specific theories determining the nature and direction of the research and interest in the several important areas such as psyshophysics, 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.
- PSY 441 SENSATION AND PERCEPTION (5) (F) Basic concepts in sensation and perception will be 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 will be considered. Psychophysical techniques such as subjective magnitude estimation and signal detection theory will be offered.
- PSY 442 COGNITIVE PROCESSES (5) (W) Investigation of the mental processing underlying experiences and behavior. Topics will 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.

PSY 443 INTRODUCTORY BIO-PSYCHOLOGY (5) (F) A study of the more important psychobiologic correlates of behavior in basic psychological phenomena. Open only to majors in the senior year or otherwise qualified students.

PSY 449 HUMAN LEARNING AND REMEMBERING LECTURES AND LABORATORY (7) (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 the conduct of experimental studies of human learning and remembering. Students who have not had Advanced General Psychology With Laboratory should first complete successfully PSY 349.

PSY 450 SOCIAL PSYCHOLOGY OF ORGANIZATIONS (5) Survey of the theoretical and methodological issues in the study of arganizational structures and environments, facusing on social processes as constraints on organizational functioning.

PSY 451 PERSONNEL PSYCHOLOGY (5) Techniques and procedures applicable to the selection, placement, utilization, and evaluation of personnel in organizations will be considered. The emphasis will be on empirical procedures rather than the management function in the personnel area. Topics such as quantitive methods and models for selection, criteria analysis, performance appraisal, management training, and job satisfaction will be discussed. Prior course in Statistics strongly recommended.

PSY 452 CONSUMER PSYCHOLOGY (5) (F,W) This course will study and review the psychological components contributing to satisfactions and dissatisfactions in buying and selling transactions. It will also study the consequences of such transactions as they affect the environment in which we live as well as society in general. The interface between business, labor, government and the consumer — as all four groups are involved in consumer affairs — will be objectively analyzed.

PSY 453 SEMINAR AND FIELD WORK IN CONSUMER PSYCHOLOGY (7) (\$) Students will work individually or in teams on topics and issues relevant to the needs of South Florida. The Research Projects approved will require gathering and analyzing of data calculated to help reduce or solve current consumer affairs problems. Emphasis will be placed on methods and measurements used by psychologists. It is recommended that students complete the course in Consumer Psychology prior to registering for this course.

PSY 459 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY LECTURES AND LABORATORY (7) Students will gain experience with the use of psychametric instruments in the areas of jab 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.

PSY 460 PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (5) The uniqueness of each human being is discussed with reference to human differences and similarities. Principles and theories of contemporary psychological tests which underlie personality, intellectual and skill differences are presented.

PSY 461 ABNORMAL PSYCHOLOGY (5) (W,S) Various forms of behavior pathology are examined in the light of traditional and current concepts of mental health and illness. Problems of diagnosis and treatment will be discussed. Role of social mores is adduced.

PSY 462 TOPICS IN PERSONALITY (VAR) (F,W,S,SS)

PSY 463 HUMANISTIC PSYCHOLOGY (5) Studies the methodology, research and findings of the humanistic orientation in psychology. Tapics such as counseling, encounter groups, higher consciousness, bio-feedback, intentional communities, education, mysticism and religion are examined from the humanistic viewpoint. Completion of a course in theories of personality is recommended.

PSY 464 PSYCHOLOGY OF DREAMS AND DREAMING (5) 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. Students should have successfully completed a course in Theories of Personality or its equivalent.

PSY 465 TREATMENT OF BEHAVIOR DISORDERS (5) Current approaches to the treatment and improvement of psychological disorders are critically surveyed. Emphasis is placed on the examination of the various techniques of psychotherapy and behavior therapy. Broader strategies of prevention and mental health promotion, like consultation, counseling, and programmed agency services are also studied.

PSY 469 DIFFERENTIAL PSYCHOLOGY LABORATORY (7) Lectures and laboratory field experiences in the principles and methods underlying the administration, construction and evaluation of psychological tests, and practice in the administration and interpretation of selected psychological tests. Students who have not had an introductory course in statistics should first complete successfully MAS 307 or its equivalent.

PSY 470 THEORIES OF HUMAN RELATIONS (5) (S) Research methods and findings on the topic of interpersonal interaction in face-to-face situations. Emphasis on content of research methods and findings rather than in-class experiences.

PSY 471 SMALL GROUP BEHAVIOR (5) (F,W) Introduction to the study of the structure and function of groups emphosizing the behavior of individuals as affected by the group. The course will focus upon experimental evidence concerning such topics as social facilitation, group decision moking, phases in group development, physical factors in group behavior, etc., rather than upon student personal experience in sensitivity or encounter training.

PSY 473 SOCIAL MOTIVATION (5) Focuses upon those sources of human motivation which are a consequence of man's social-interpersonal environment and his striving to obtain socially 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 will be discussed.

PSY 479 EXPERIMENTAL SOCIAL PSYCHOLOGY LECTURES AND LABORATORY (7) (S) The primary purpose of this course is to have students conduct actual social psychological experiments. Lecture material will be secondary to and in the interest of allowing students to execute representative experiments in areas such as attitude measurement and change, conformity, group structure and communication, etc.

PSY 480 SPECIAL TOPICS IN PSYCHOLOGY (VAR)

PSY 481 PSYCHOLOGICAL ASPECTS OF INTERNATIONAL RELATIONS AND CONFLICT (5) (W) A study of the psychological, especially social, factors in the dynamics of international behavior interactions which may increase or decrease tensions and conflicts.

PSY 482 ATTITUDES AND ETHNICITY: A CROSS-CULTURAL PSYCHOLOGICAL APPROACH (5) Comparative study of the attitudes and practices of racial and ethnic groups toward each other in a variety of cultural and national settings.

PSY 483 PSYCHOLOGICAL INFLUENCE OF CULTURE ON LEARNING AND THINKING (5) An analysis of the research and theory relating cultural and societal influences of learning and thinking. Consideration will be given to the controversies concerning assessment, individual and group differences. Prior course work in developmental psychology would be helpful.

PSY 489 OVERVIEW OF PSYCHOLOGY (5) (W) A consideration of the historical origins and developments of modern psychology as a viable discipline, in the light of the major influences upon its growth. Enrollment will be limited to students who have satisfactorily completed at least 20 quarter hours in upper division psychology courses.

PSY 490 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 will be expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their study.

PSY 491 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 will be expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their experiences.

PSY 492 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 will be expected to have regularly scheduled meetings with their faculty advisor, to conduct the research, and to submit a written report of their research.

PSY 498 SENIOR SEMINAR IN PSYCHOLOGY (2) An advanced seminar for seniors. Analysis of major contemporary trends in psychological theory and research.

PSY 499 HONORS RESEARCH PROJECT (VAR) Limited to qualified seniors seeking honors in psychology. Students must submit a research plan and have a research advisor selected who has approved 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 529 COMMUNITY PSYCHOLOGY FIELD EXPERIENCES II (7) (W) Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Students enrolled in this course must have completed Field Experience in Community Psychology I.

PSY 530 CULTURE AND CHILDHOOD (5) (W,S) An examination of cultural and societal influences on children's motor, perceptual, intellectual, and personality development. Extensive readings in the cross-cultural research literature will serve as the focus for class discussions and independent projects. The course is designed for seniors and graduate students.

PSY 531 DISORDERS OF LANGUAGE IN CHILDHOOD (5) (F) This course focuses on the failure 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 at least one course in developmental psychology.

PSY 547 THEORIES OF LEARNING (5) The major theoretical systems of learning will be covered with the intent of determining how well each accounts for the phenomena of learning. Emphasis will be 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 will be considered.

PSY 548 METHODS OF PSYCHOLOGICAL RESEARCH (5) A practicum course in behavioral research in which an investigation is planned, carried out, analyzed, and reported. Discussion will be directed to experimental, quasi-experimental, and non-experimental designs, obtrusive and unabtrusive measures, mathematical and logical tools for analysis of results, uses of the computer for data callection and analysis, and ethical considerations in research on human populations. Prerequisite: permission of the instructor.

PSY 549 ADVANCED EXPERIMENTAL PSYCHOLOGY: LECTURES AND LABORATORY (7) Lecture and laboratory course investigating experimental research in the fundamental processes of human behavior. These include perceptual, cognitive, and linguistic pracesses. Students enrolling in this course should have successfully completed PSY 349, MAS 307 and MAS 308.

PSY 560 PERSONALITY DYNAMICS (5) (S) A review of different approaches to the study of personality dynamics. Special consideration is given to psychoanalysis and neo-analytic psychology. Other personality theories influencing modern psychological thought are also considered. Students should have successfully completed a course in theories of personality or its equivalent. Instructor's permission is required.

PSY 561 CURRENT ISSUES IN MENTAL HEALTH (5) A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental health patients; planning, programming and administering mental health services; political, ethical and legal constraints on the operation of mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisites: Abnormal Psychology or permission of the instructor.

PSY 563 ADVANCED BEHAVIOR PATHOLOGY (5) Advanced study of the causes, psychopathology, manifestations and social and personal consequences of behavior disturbance. Emphasis is placed an 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) will be covered.

PSY 570 ADVANCED SOCIAL PSYCHOLOGY (5) (W) An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Students enralling in this course should have completed successfully at least an introductary caurse in social psychology or its equivalent.

PSY 580 SPECIAL TOPICS IN PSYCHOLOGY (VAR) (F,W,S,SS)

PSY 601 SPECIAL TOPICS IN EDUCATIONAL PSYCHOLOGY (VAR) An intensive analysis of a particular topic in educational psychology. Students will have to have topics approved by the instructor prior to registration. Open anly to advanced and graduate students in the School of Education.

SOCIAL SCIENCES INTERDISCIPLINARY MAJOR

DEGREE: Bachelor of Arts
LOWER DIVISION PREPARATION:

Required Courses: Nane

Recommended Courses: anthropology, economics, palitical science, psychology, sociology, urban/environmental studies, mathematics, philosophy, statistics.

UPPER DIVISION PROGRAM:

Required Courses:

Sacial science courses, including ane upper division course from the following departments: Political Science and Gavernment, Psychology, Saciology/Anthropology, and non-social science caurses.

MAS 307 Introduction to Statistics* (5)

*unless the Statistics requirement, or its equivalent, was completed prior to admission. If MAS 307 is taken at the University, it must be taken during the first or second academic quarter of enrollment.

SSC 500 Social Sciences Advanced Interdisciplinary Seminar (5) Electives:

Remarks: in addition to the above requirements, the student is required to complete an independent project conducted under the supervision of a faculty committee and present an oral defense of the work 20-35

Quarter Hours

55-70

90

COURSE OFFERINGS

SSC 500 SOCIAL SCIENCES ADVANCED INTERDISCIPLINARY SEMINAR (5) An interdisciplinary study group in social science. Faculty and students from the various social science departments participate in problem-oriented workshops. Topics to be announced. Open also to advanced students outside of the social sciences.

SOCIOLOGY MAJOR

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

DEGREE: Bachelor of Arts

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

Required Courses: introduction to cultural anthropology, or introduction to physical anthropology, or introduction to sociology.

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

UPPER DIVISION PROGRAM

	Quarter Hours
Required Courses:	60
Core Courses:	
ASC 301 Anthropological Theories	5
ASC 302 Sociological Theories	5
ASC 303 Research Methods	5
ASC 304 Ethical Issues in Social Science Research	5
Area Courses: either sociology or anthropology	40
Electives: with approval of the faculty advisor	30
	_
	90

NOTE: A student with special interests may consult faculty advisors to plan an individualized program of study. Field Wark Experience — A meaningful understanding of anthropology and sociology can best be developed through the interplay between theory and research. Each student will be encouraged to work outside of the formal classroom under faculty supervision.

COURSE OFFERINGS

ASC 301 ANTHROPOLOGICAL THEORIES (5) This course examines the process of theory building and explanation in the social sciences and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution, Boas and historical particularism, Freud and culture and personality, and Malinowski and functionalism.

ASC 302 SOCIOLOGICAL THEORIES (5) Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists with respect to their methodologies, 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 goin in-depth knowledge of opposing theories as well as an appreciation of the contingent nature of sociological theories.

ASC 303 RESEARCH METHODS (5) An introduction to the scientific method and its application to anthropological and sociological research. Topics include formulation of research problems, research design, field methods and collection of data, hypothesis testing and interpretation of results.

ASC 304 ETHICAL ISSUES IN SOCIAL SCIENCE RESEARCH (5) An introduction to the problems and possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Case studies involving issues such as nation-building in oreas of accelerated change including Africa and Asia.

SOC 301 THE SCOPE OF SOCIOLOGY (5) Introduction to the field of sociology with particular emphasis on scope and limitations. Basic but major divisions of the discipline will be introduced. Vacabulary, conceptualizations, research approaches, and vocational apportunities will be reviewed. The relationship of theory and empirical study will be stressed. (Also recommended for non-majors.)

SOC 302 THE BASIC IDEAS OF SOCIOLOGY (5) The course will introduce the student to the ideas of community, authority, status, alienation and the sacred as used in sociological literature.

SOC 311 THE INDIVIDUAL IN SOCIETY (5) Introduction to the study of the individual as a social being with particular emphasis on man's social origins, human perceptions, and the interaction of the individual and the group within society.

SOC 312 SMALL GROUPS (5) Survey of small group studies, their development and the associated theoretical schools of thought. The significance of small group studies far social theory is evaluated.

SOC 313 COLLECTIVE BEHAVIOR (5) The study of human behavior as found in relatively unstructured farms such as crowds, riots, revivals, public opinion, social movements, and fads. The interplay of such behavior and the rise of new norms and values are analyzed.

SOC 321 CRIMINOLOGY (5) 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 322 DELINQUENCY (5) 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 323 SOCIAL DEVIANCY (DEVIANT BEHAVIOR) (5) The study of behavior that caunters the culturally accepted norms or regularities. The social implications of deviancy are reviewed and theoretical formulations regarding deviant behavior are analyzed.

SOC 331-332-333-334-335 COMMUNITY SOCIOLOGY COURSES (5) Special courses dealing with community programs such as Model Cities, valuntary organizations, United Fund, inner city schools, public service agencies. Faculty will come from community agencies, and course work will facus on local problems.

SOC 341 THE COMMUNITY (5) 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 recognized. Attention is given to the interaction of individuals and groups as they exist within the community.

SOC 342 THE SOCIAL SYSTEM (5) The study of society as a system, the benefits of such a conceptual approach, and related theoretical constructs are compared.

SOC 343 SCHOOL AND SOCIETY (5) A specialized course dealing with the place of schools (particularly public) in society and the import of social criteria for school personnel and the influence of such criteria on the educational processes within the school system (institution).

SOC 351 INTRODUCTION TO POPULATION ANALYSIS (5) An introduction to the study of population analysis. Classifications by age, sex, occupation, or other criteria and the significance of such data for analyzing major social trends are studied. The import of statistical records such as births, deaths, marriage registrations and census data is reviewed and analyzed.

SOC 352 HUMAN ECOLOGY (5) An introduction to the adaptive processes social beings make to their environment with particular emphasis on spatial distributions of inter-related social facts such as crime rates and population characteristics or poverty and housing canditions. Current studies an social inter-relationships and physical environments are introduced.

SOC 361 SOCIAL INSTITUTIONS/ORGANIZATION (5) An introduction to more formalized behaviors that tend to provide accepted, orderly, and enduring procedures for groups having more than narrow interests and which perpetuate themselves and continue their existence as a group. These institutionalized ways of behavior are associated with specific institutions and studied comparatively.

SOC 363 MARRIAGE AND THE FAMILY (5) An introduction to the intensive study of the kinship relationship of man known as the family. The family is distinguished from other social units and behaviour variations of this special unit are analyzed and associated with special functions. Contemporary manifestations of the family and the dynamic changes indicated are considered.

SOC 371 SOCIAL PROBLEMS (5) An introduction to the concept of a social problem and the approaches used to understand more fully the total dimensions of some specific problems. Special emphasis is given to clarifying one's understanding of the underlying nature for selected social problems, an analysis of those aspects amendable to remedy, and an inventory of the knowledge and skills available.

SOC 381 SOCIAL CHANGE (5) The study of major shifts in focus for societies or culture is covered, and the course defines indicators associated with such changes. Particular attention is given to the development of industrial societies and the study of the dynamics involved for nations emerging from various stages of "underdevelopment."

SOC 402 BASIC RESEARCH DESIGN (5) Advanced course in social research which provides 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 acquaint the student with the use of computers in research in the behavioral sciences.

SOC 403 ADVANCED SOCIAL THEORY (5) An analysis of various classical and current saciological theories with particular attention paid to their conceptions of man in society and the wider implications such conceptions have for their theoretical perspective. The theories of Durkheim, Parsons, Weber, Goffman, Bendix and Dahrendarf will be examined.

SOC 406 SOCIOLOGY OF THE 20th CENTURY (5) An examination of the socialogical implications evident in the events of our modern world. Heavy reliance is placed an intellectual materials other than social science, especially literature.

SOC 411 ROLE THEORY (5) An analysis of the relation between man and society from the perspectives of role theory. The course explores the effect society has an individual biography and action.

SOC 412 SYMBOLS AND SOCIETY (5) An analysis of the effect of culture on the individual and on society. The rales of popular and intellectual culture life will be examined.

SOC 413 MASS CULTURE (5)

SOC 414 SOCIOLOGY THROUGH FILM (5)

SOC 421 THERAPY AS A SOCIAL INSTITUTION (5) An analysis of psychotherapy from the sociological perspective. The effect of therapy on society and its functioning in society are also analyzed. Comparable institutions in other societies are examined.

SOC 422 CLINICAL SOCIOLOGY (5) The problems of alienation, anomie, and happiness will be analyzed. A third position between social work and social change will be sought. Personal adjustment, social revolution, and individual calculation will be weighed as responses to the demands of social life.

SOC 431-432-433-434-435 AREA STUDIES: SOCIAL STRUCTURES AND PROBLEMS (5) Special caurses on the social structures and related sociological problems of specific geographical and cultural areas. To be affered at various times.

SOC 436 LATIN AMERICAN AND CARIBBEAN SOCIAL STRUCTURES (5) The types of social structures, statuses and roles and the resulting distributions of power and authority in the hemisphere.

SOC 441 COMMUNITY ORGANIZATION (5) An intensive study of how communities are arganized, with special emphasis on the interactive process of the varied components of a community. Special study permitting students to concentrate on interest areas is required.

SOC 442 COMPARATIVE SOCIAL SYSTEMS (5) The study of varied social systems particularly as to those qualities regularly occurring in each and those which differ. Such variables are then analyzed for associational carrelates to the systems studied.

SOC 451 URBAN SOCIOLOGY (5) The study of society as manifested in the urban community with particular attention given to the problems associated with urban life. The development of urban societies, is reviewed historically and factors associated with this development are identified.

SOC 455 MAN, SOCIETY AND TECHNOLOGY (5) The study of contemporary society, man's role in it, and effects of technological change. A study of the interrelationships with special attention given to vocational study and instruction within the framework of the relationships perceived.

SOC 461 SOCIAL STRATIFICATION (MOBILITY) (5) The study of society structured hierarchically with particular attention given to the form and content of the various levels. Problems in the social order and differential human behaviors associated with stratification are analyzed.

SOC 462 THE PROBLEM OF BUREAUCRACY IN THE MODERN WORLD (5) The course deals with the microsocialogical problems of the internal organization of bureaucracies and with relation between bureaucracy and personality, with the macro-socialogical problems of the emergence of the bureaucratic form, bureaucratization and contemporary life, as well as with general problems of affluence, meaningless activity, how to beat the bureaucracy, and bureaucracy and atractiv.

SOC 463 COMPARATIVE FAMILY SYSTEMS (5) The study of family organization and function in selected major world cultures. Emphasis is given to the inter-relationships of the family, the economic system, urbanization, and human development.

SOC 464 STUDIES IN COMPARATIVE LIFE STYLES (5) A problem ariented course emphasizing the differential behavior associated with categories such as nationalism, social class, income distribution, and political or religious affiliation.

SOC 471 MINORITIES (RACE AND ETHNIC RELATIONS) (5) The study of social groups identified by racial ar ethnic characteristics. Particular emphasis is given to their role in society, especially that society of which they are a part and the interactive pracess resulting from contact with the majority. Social behaviors of minorities are reviewed and related to institutional structures and their accepted norms.

SOC 472 THE ROLE OF WOMEN IN CONTEMPORARY SOCIETY (5) A concentrated study of wamen in society, rale arigins and their development in contemporary society. Particular attention is given to how such behaviors became narmalized and the rapidity with which they change.

SOC 473 HEALTH AND WELFARE DELIVERY SYSTEMS (5) A review of the varied systems servicing saciety's health and welfare needs. Attention is given to the institutional origins of such systems and their propensity for change and modification. Studies reflecting evaluative considerations for such systems are reviewed.

SOC 474 SOCIOLOGY AND SOCIAL PLANNING (5)

SOC 475 SOCIOLOGY OF REAL ESTATE AND LAND USE (5)

SOC 476 SOCIOLOGY OF THE UNDERPRIVILEGED SOCIETIES 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 socialogical analysis.

SOC 477 SOCIOLOGY OF MEDICINE (5) The social arganization of medical institutions and the social factors associated with incidence of physical/mental illness and its treatment. Opportunity available for students to pursue specialized interests related to public needs and medical services.

SOC 478 SOCIOLOGY OF RELIGION (5) The study of religious institutions, their structure and function in various societies. Leadership qualities, participation and practices, and the relationship of religious institutions to other social institutions are studied.

SOC 479 POLITICAL SOCIOLOGY (5) The underlying social conditions of political order, political process and political behavior are explored. Examples will be drawn from empirical and theoretical studies of power, elites, social class and socialization.

SOC 481 COMPARATIVE SOCIOLOGY (5) A cross-cultural and cross-national survey of sociological studies with particular emphasis on theoretical and methodological issues. Examples will be drawn from studies on culture patterns, social structure, sexual mares, power relationships and the ethical implications of cross-national research.

SOC 483 HISTORICAL SOCIOLOGY (5) The authenticity and meaning of historical data far socialogical research. Systematic theories in history are analyzed far their utility in saciology. Particular emphasis will be placed on the socialogical uses of the comparative method in history.

SOC 491 SOCIAL CONFLICT (5) 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 492 SOCIOLOGY OF SOCIOLOGY (5) An analysis of the disciplines of Saciology and Anthrapalagy using the tools developed by those disciplines themselves. The political, sacial and ecanomic cantexts of the field are examined to see how the discipline is used, for what advantages, and to what effect.

SOC 493 BASIC ASSUMPTIONS OF SOCIOLOGY (5) An analysis of the basic assumptions underlying the different perspectives in Sociology and Anthropology.

SOC 494 INTELLECTUAL PRECURSORS OF SOCIOLOGY (5) An analysis of social ideas from which socialogy emerged. The ideas of Aristotle, Habbes, Rousseau, and Marx, among others, will be discussed as contributions to the emergence of Socialogy.

SOC 495 SOCIOLOGY OF UTOPIA (5) An analysis of utapian thinking as well as the sociological implications of utapianism.

SOC 496 SOCIAL CONFLICT IN MULTI-ETHNIC SOCIETIES (5) 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 cansequences of prejudice are analyzed in terms of the casts to every group in the society.

SOC 497 HONORS SEMINAR (S) Permission of instructor needed.

SOC 499 DIRECTED FIELD RESEARCH (VAR) Permission of instructor needed.

SOC 572 SOCIOLOGY OF LAW AND LEGAL PROCESSES (5)

SOC 581 INDUSTRIAL SOCIOLOGY (5) Concentrated study of industrialization and the socialogical theary involved. Manpawer, unemployment, apprentice programs, classificatory schemes are subject matter studied.

SOC 582 SOCIOLOGY OF EDUCATION (5) An analysis of education os a social pracess and the interrelationship of educational systems and society. The study of education as a socialization process, the social structure of education, and the rale played as an agent in social change are emphasized.

SOC 586 SOCIOLOGY OF KNOWLEDGE (5) The study of the theoretical bases of knowledge and the inter-relatedness of social factors, particularly as knowledge relates to institutional forms of behavior.

SOC 587 SOCIOLOGY OF MENTAL HEALTH (5) A concentrated study of mental illness with particular emphasis an 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. Fomily effects of mental illness discovery and treatment are assessed and mental health programs and their effectiveness are reviewed.

SOC 589 CONFLICT RESOLUTION: SOCIETY AND LABOR (5) A concentrated study of conflict as evidenced in labor's relationship to society. The development of methods of resolution and an assessment of the 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 590 ADVANCED URBAN SOCIOLOGY (5) A concentrated study of urban problems. Emphasis given to social policy and the role of public and private agencies in sustaining, administrating and changing such policy. Urban problems are studied as an intermix of social, cultural, palitical and economic factors. Methods of social cost analysis are discussed.

SOC 591 DIRECTED INDIVIDUAL STUDY (VAR) (F,W,S,SS) Supervised readings and/or field research and training. May be repeated.

CERTIFICATE PROGRAMS

BLACK STUDIES

Director: Melbourne S. Cummings (English)

Coordinating Committee: Luretha Lucky (Education), Dominic Mohamed (Education), Marvin Dunn (Psychology), Edward Isibor (Technology), Rose Foster (Health and Social Services)

The certificate in Black Studies will be awarded to the student who has demonstrated competence in course work pertaining to the study of Afro-America and/or Africa. It is designed to meet the needs of the person who has a general interest in Afro-America and Africa, as well as the individual for whom work in Black Studies would serve to assist in career planning or advancement.

A student is able to acquire a Certificate in Black Studies by fulfilling the following requirements:

- The successful completion of at least 30 hours in Black Studies courses which are outlined below.
- 2. At least 15 hours of the course work must be taken at FIU.
- Courses must be selected from at least two different departments. Fulfilling the requirements in Black Studies does not preclude the students' meeting the requirements of their major fields appropriate to their degrees.

The student is allowed to choose his or her courses for the Black Studies Certificate Program from this list:

Criminal Justice

CRJ 422 Administration of Correctional Institutions (5)

CRJ 395 Contemporary Issues in Criminal Justice (VAR)

Economics

ECO 329 Ecanomics of Race and Sex Discrimination (5)

Education

PPS 508 Educational and Vacational Guidance (5)*

*to be refocused on minority situations (Career Exploration and Guidance for the Minarity and Disadvantaged)

English

ENG 380 Survey of Afra-American Literature (5)

ENG 422 Rhetaric and Communication: Black Rhetoric (5)

ENG 442 Regional Literature in English: Sub-Saharan Africa (5)

ENG 506 Major American Literary Figures: Wright, Ellison, Baldwin, Brooks, Hughes (5)

ENG 545 Literary Movements: The Harlem Renaissance (5)

History

HIS 360-361 African History (5-5)

HIS 395-396 Regional and National History: Africa (5)

HIS 455 Individuals and History: Black Autobiographies in the U.S. (5)

*NOTE: The History Department has structured same of its catalog listings to be very general; most af the offerings are topical or thematic courses, for example, Social History 410-415, Intellectual History 415-419, Cultural History 420-424, etc. Aspects of the Black or African experience will be taught under these headings. See quarterly course listing from the Registrar's Office or the History Department's quarterly course lists.

Health Science

HSM 484 Family Health Centers (5)

Music

MUS 307 Evolution of Jazz (5)

(Continued) Political Science

POS 404 Politics of the Third World (5) POS 441 International Development (5)

POS 463 Ethnic Politics (5)

Psychology

PSY 321 Psychology of Racism (5)

PSY 322 Psychology of the Disadvantaged (5)

PSY 482 Attitude and Ethnicity (5)

PSY 530 Culture and Childhoad (5)

Sociology

SOC 471 Minorities (Race and Ethnic Relations) (5)

SOC 588 Social Conflict in Multi-Ethnic Societies (5)

Social Work

SOW 405 Person Systems in Distress (5)

SOW 302 Cantemporary Issues and Problems in Social Welfare Policy (5)

*NOTE: There are other courses that have been proposed that will be used in the Certificate Program, if approved.

Theatre

THE 339 Black Theatre Techniques (5)

THE 555 Development of Black Theatre in America (5)

CARIBBEAN STUDIES

Director: Ken I, Boodhoo (Political Science)

Coordinating Committee: Maria Vizcaina (Philosophy and Religion), Richard Dwyer (English), Barry Levine (Sociology and Anthropology), Raul Moncarz (Economics), Bernard Marshall (History), A. Maingot (International Affairs), F. Maurrasse (Physical Sciences).

The University does not offer an undergraduate degree in Caribbean Studies, but it does provide a Certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of the Caribbean. This Certificate is designed to meet the needs of those who have a general interest in Caribbean and Circum-Caribbean affairs as well as those for whom work in Caribbean Studies would serve to assist in career planning or advancement.

A student can acquire a Certificate in Caribbean Studies by fulfilling the following requirements:

- The successful completion of at least six courses (30 quarter hours) in Caribbean or Caribbean-related courses which are outlined below.
- Courses must be selected from at least two different departments. The students should consult with departmental advisors in selecting courses.
- 3) With the advice of the Coordinating Committee, the student is encouraged to attain some degree of proficiency in one of the Caribbean languages, e.g. English, Spanish, French, other than that of his native tongue.

In addition to the foregoing, all of the requirements normal for obtaining the Bachelor's Degree in the College of Arts and Sciences, or in one of the professional schools, must be met, including majors and minors appropriate to that degree.

A Coordinating Committee representing separate fields of knowledge and consisting of faculty engaged in the teaching of one or more courses in Caribbean Studies will grant the Certificate and serve in an advisory capacity for students.

The University offers the following courses from which the student who is desirous of earning the Certificate can select:

Anthropolo	gy	Economics	
ANT 420	Cultures of the Caribbean (5)	ECO 316	Economics of Central America (5)
ANT 422	Cuban Culture and Revolution (5)	ECO 403	The Economic Development of Cuba
ANT 429	Area Studies: Mayan Civilization (5)		— Past and Present (5)
		ECO 408	Economics of Caribbean Integration (5)
		ECO 409	Economics of the Caribbean (5)
Earth Scien		ECO 410	Introduction to Economic Development (5)
	Elements of Caribbean Geology (5)	ECO 437	The Latin American Economics (5)

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(Continued)			
ECO 455	Las Economias Latinaamericanas (5)	Philosophy	ond Religion
ECO 526	The International Economy (5)	PHI 318	Lotin American Philosophies (5)
		REL 426	Contemporary Latin American Religious
English			Thought (5)
ENG 440	Regional Literature in English (5)	Political Sci	ence
	regional energions in English (o)	POS 307	Government and Palitics of the Carib- bean (5)
History		POS 316	
HIS 385	Caribbean I (5)		America (5)
HIS 386	Modern Caribbean (Caribbean II) (5)	POS 338	Race and Palitics in the Caribbean (5)
HIS 427	Comparative New World Slavery (5)	POS 403	Cubon Palitics (5)
		POS 409	•
Internation	al Relations	POS 429	
INR 331	Corruption and Modernization in		bean (5)
	Developing Countries (5)	POS 559	
INR 344	International Relations of the Caribbean		Caribbean Development (5)
	(5)	Sociology	
INR 442	Ethnic Conflict and Political Develop-	SOC 436	
INR 467	ment (5) Alternate Tourism (5)	SOC 481	Structures (5) Camparative Sociology (5)
114K 407	Allemale Tourism (3)	300 401	Camparante Sociology (5)

JEWISH STUDIES

Director: Martin H. Greenberg (International Relations)

Coordinating Committee: Richard Konkel (Philosophy and Religion), Chuck Elkins (English), Barry Levine (Sociology), Brian Peterson (History), Howard Rock (History), Robert Shostak (School of Education), Ron Tikafsky (Psychology), Jael Gottlieb (Political Science), Rabbi Jay Miller (Campus Ministry)

The University provides a Certificate acknowledging that a student has demonstrated competence in course work pertaining to Jewish Studies. This certificate is designed to meet the needs of those who have a general interest in Jewish and Middle Eastern affairs, as well as those for whom work in Jewish Studies would serve to assist in career planning or advancement; for example, students who plan a career in Jewish communal service.

A student can acquire a Certificate in Jewish Studies by fulfilling the following requirements:

- The successful completion of at least six courses (30 quarter hours) in Jewish or Middle Eastern-related courses which are listed below.
- Courses must be selected from, at least, three different departments. The students must be advised by a member of the Coordinating Committee.
- Students are strongly encouraged to attain at least a minimum of proficiency in either Hebrew or (if offered) Yiddish.
- A Quarter in Israel Program is being planned. If implemented, it will be incorporated into the Certificate program.
- 5) A Jewish Studies Internship will be available, and will involve placing students with Jewish Communal Agencies and educational institutions. The Internship must be done with the participation of a member of the Coordinating Committee.
- 6) Independent Study may be taken towards the Certificate, but only to a maximum of ten credits. Independent Study requires the participation and permission of one of the members of the Coordinating Committee.

In addition, all of the requirements normal for obtaining the Bachelor's Degree in the College of Arts and Sciences, or in one of the professional schools, must be met including majors and minors appropriate to that degree.

A Coordinating Committee representing separate fields of knowledge, consisting of faculty engaged in the teaching of one or more courses in Jewish Studies, will award the Certificate and serve in an advisory capacity to students.

The University offers the following courses from which the student who is desirous of earning the Certificate can select:

English ENG 300 Themes in Literature: The American Jewish Nove! (5)

History

HIS 304 Ancient Near East (5)
HIS 420 Jewish Strategies for Survival (5)
HIS 471 Jewish History: From the Ancient
Hebrews Until Today (5)

Modern Languages

HEB 311 Beginning Intensive Hebrew (5)
HEB 312 Intermediate Intensive Hebrew I (5)
HEB 313 Intermediate Intensive Hebrew II (5)
HEB 314 Advanced Intensive Hebrew (5)

Philosophy and Religion

REL 310 Biblical Writings and Thought (5)
REL 312 The Prophets (5)

REL 312 The Prophets (5) REL 323 Judiasm (5) REL 340 Judaic Prayer (5)

Political Science

POS 349 Government and Politics of Israel (5)

International Relations

INR 333 International Relations of the

Middle East (5)

INR 373 Population and Geography of the

Middle East (5)

LATIN AMERICAN STUDIES

Director: Jase M. Aybar (Political Sciences)

Coordinating Cammittee: Mario Vizcaino (Philosophy and Religion), Robert Farrell (Education), A. Maingot (International Affairs), Raul Moncarz (Economics), Lamar Rass (Anthrapalagy), R. R. Sanchez (Modern Languages)

The University does not offer an undergraduate degree in Latin American Studies, but it does provide a Certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of Latin America.

A student can acquire a Certificate in Latin American Studies by fulfilling the following requirements:

- The campletian of eight courses (40 quarter hours) in Latin American courses. (See courses belaw).
- Two courses (10 quarter hours) must be spent in fulfilling language requirements, either Spanish or Partuguese.
- Course must be selected from at least three departments. The students should consult the departmental advisors in selecting courses.
- All students contemplating entering the Certificate Program in Latin American Studies must consult with the director for acceptance into the program.
- Fieldwork is encouraged. Plans for fieldwork should be discussed with the coordinator.
- Requirement for completion. All students in the Certificate Program for Latin American Studies will submit an extensive research paper to the director, coordinator and departmental advisors. This should be done through independent study. Credit will accrue toward the Certificate.

In addition, all of the requirements normal far abtaining the Bachelors Degree in the College of Arts and Sciences, or in one of the prafessional schools, must be met, including majors and minors appropriate to that degree.

A coordinating cammittee representing different fields of knowledge, consisting of faculty engaged in the teaching of one or more courses in Latin American Studies, will award the Certificate and serve in an advisary capacity to students.

A certificate in Latin American Studies with honors will be granted those students fulfilling the following: A average and an oral examination given by one of the coordinators and three faculty members.

The University offers the courses below, from which a student may select.

Note — courses marked with an asterisk (*) require the permission of the Director for enrollment.

Anthropology

ANT 327 Peasant Cultures

*ANT 420 Cultures of the Caribbean (5)

ANT 421 Lotin America (5)

*ANT 422 Cuban Culture and the Revolution (5)

Economics

ECO 316 Economics of Central America (5)
*ECO 403 Economic Development of Cuba —

Past and Present (5)

ECO 437 The Latin American Economics (5) ECO 455 La Ecanomía Latinoamericana (5)

(Continued on next page)

(Cantinued) History

HIS 334	Modern Latin American History (5)
HIS 385	Regional and National: Latin America
(5)	

**HIS 410 Tapics in Intellectual History (5)

**HIS 415 Tapics in Social History (5)

**HIS 420 Topics in Cultural History (5)

**HIS 425 Tapics in Ecanamic History (5)

**Check the catalag for courses, though not specifically titled ar referring to Latin America, whose content may be Latin American literature ar Latin American civilization.

Education

EDU 514 Latin American Education (5)
EDU 515 Educational Systems in Latin America
(5)

Madern Languages

 SPA 301-303
 Language Instruction (5)

 SPA 311-314
 Intensive Language (5)

 POR 311-314
 Intensive Language (5)

 POR 301-303
 Language Instruction (5)

 POR 460
 Civilizatian II — Brazil (5)

Political Science

rUS 304	Gavernment and Palitics at South)
	America (5)	
POS 316	Gavernment and Politics of Centra	1
	America (5)	
POS 326	Theories of Latin American Politics (5)	
*POS 403	Cuban Politics	
POS 437	Palitical and Social Change in Latin	n
	America (5)	

Sociology

SOC 436 Latin American and Caribbean Social Structure (5)

Philosophy and Religion

PHI 318 Latin American Philasaphies (5)
REL 426 Contemporary Latin American Religious
Thought (5)

International Relations

INR 362 Population and Geography of Latin America (5)

SCHOOL OF BUSINESS AND ORGANIZATIONAL SCIENCES

The School of Business and Organizational Sciences offers academic programs leading to the undergroduate degree of Bachelor of Business Administration and the graduate degrees of Master of Business Administration and Master of Science in Management. These programs are designed to help prepare the student for careers in Business, Public Administration, and other areas of management.

Programs of the School of Business and Organizational Sciences are based on a background of courses in the arts and sciences, followed by a foundation of management policies, institutions, and operations, including study of basic management tools of analysis and decision-making. Further study in the functional areas of enterprise leads to a thorough preparation in a selected field of specialization.

The School is organized into three divisions (Management, Finance/Accounting, Policy/Marketing/Environment) and one program (Public Administration). There is a central undergraduate advising unit (DM 362A) and a graduate coordinator (DM 362B). These advisors are available to provide detailed information about programs offered by the School.

UNDERGRADUATE STUDY

A student entering into a Bachelors program of the School is required to have completed the Associate of Arts degree or its equivalent, and is encouraged to bring with him or her some knowledge of accounting, mathematics, computer programming, and economics. The broad liberal arts exposure inherent in the Associate of Arts degree enables a student to complete the Bachelor of Business Administration requirements in the equivalent of two years and to take most of the professional work with Florida International's School of Business and Organizational Sciences. This professional work includes: (1) certain required courses, each of which is designed to introduce the student to a common body of knowledge, including quantitative analysis, finance and control, administrative theory and practices, the social and legal environment of business, and marketing and distribution; (2) courses required for the student's major; and, (3) elective courses.

ENTRANCE REQUIREMENTS

The student entering on undergraduate program of the School of Business and Organizational Sciences is required to meet the following three standards:

- 1) 90 quarter hours (60 semester) completed, and
- 2) grade point average of 2.0 or above, and
- 3) satisfactorily meet general University requirements for admission, including, in this case, the general education requirements. The general Education requirements are: English Composition (9), Humanities (9), Social Science (9), Natural Science (9), Mathematics (4), Electives in one above areas (14)

The bosic program in the School of Business and Organizational Sciences to obtain a BBA degree is 90 quarter hours. Generally, the student completing computer proficiency, and general education requirement deficiencies at Florida International will add these credits to his or her basic 90 quarter hour program.

UPPER DIVISION TRANSFER CREDITS

Previous credit is considered acceptable for transfer toward upper level academic study in the School if the credit was earned at an accredited institution, and was designated as junior-senior level credit at a four year or upper level institution, or is validated by some acceptable measure to verify its equivalence.

RESIDENCY REQUIREMENT

A student must complete his or her last 45 quarter hours of course work at Florida International to qualify for the BBA degree from the School. Extraordinary circumstances may warrant special consideration.

CREDIT-BY-EXAMINATION

A student registered for a course in the School may, at the discretion of the instructor and after presenting sufficient justification, attempt credit by examination. Upon successful completion of the special examination given by the course instructor — preferably during the first week of classes to allow registration for another course that academic quarter — a grade of CR will be noted on the course grade rall at the end of the quarter, if the student, in the opinion of the professor, passes the special examination.

COURSE SELECTION AND CLASS LOADS

Generally, a junior level student is expected to concentrate on the 45 quarter hours of core courses (and pre-core courses, if needed). Courses at the 400 and 500 levels are normally taken during the senior year, and the student must have the necessary background and/or training befare enrolling.

The normal class load each quarter for an undergraduate student is:

	Quarter Hours*
Full-time attendance	15
Working part-time	10
Working full-time	5

*Unusual circumstances combined with high scholarship may warrant an exception which must be approved by the Deon.

GRADUATION PROCEDURES

- During the first year in the pragram, undergraduate and graduate students develop and sign with their faculty advisor and dean, advance standing farms and programs of study; this program of study becomes the basic contract between the School and student and is used in determining when a student is eligible for a degree.
- Approximately five months prior to the expected graduation date, the student files, with the Office of Registration and Records, an application for graduation.
- 3. The Deans Office, having received this application from the Office of Registration and Records, has the appropriate faculty advisor review the student's record in order to determine that he has, or is in the pracess of, successfully fulfilling the courses required for graduation as listed in the program of study.
- 4. If the student's progress is deemed acceptable, the faculty advisor, division chairman, and dean certify the application for graduation, contingent upon completion of the course work which the student is registered for in his final quarter.
- The Dean's Office should receive copies of all programs of study after all signatures have been obtained.

UNDERGRADUATE MAJORS

Major programs leading to the Bachelors degrees are offered in accounting, finance, insurance, international management, management, marketing, personnel management, public administration, real estate, transportation, urban and regional affairs, and management information systems.

UNDERGRADUATE PROGRAM REQUIREMENTS

LOWER DIVISION PREPARATION:

The following course requirements, in addition to the other requirements for the Associate of Arts degree, should be a part of the 90 quarter hours (60 semester hours) of lower division coursework completed in order to enter these upper division majors.

Required Courses: 6 semester hours of accounting; 6 semester hours of economics; 3 semester hours of college algebro; 3 semester hours of statistics; 3 semester hours of computer programming.*

- *Computer Programming Proficiency Requirement: The rapidly increasing need of the professional administrator for exposure to computer technology and terminology is the rationale for the Computer Programming Proficiency Requirement of the School. The growth and reliance on data processing techniques by business and government demand that fundamental experience in this area be achieved. Therefore, prior to enrollment in BUA 306 Introduction to Information Systems, 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 MAS 300 Introduction to Computer Programming, at Florida International University.
- · Successful completion of short, intensive course, offered during quarter breaks.
- Self-study, or work experience. An examination is offered on a regular basis for students selecting this
 alternative.

Further details may be obtained from the Advisement Office of the School

UPPER DIVISION PROGRAM:

Core Courses Required for Business	Quarter Hours
Administration Students: ²	45-60
ACC/BUA-300 Accounting for Decisions 1	5
ECO-301/BUA 310 Economics, Man & Society ¹	5
MAS/BUA 304 Quantitative Methods for	
Administration ¹	5
BUA 301 Financial Management	5
BUA 302 Operations Management Policy	5
BUA 303 Principles of Marketing	5
BUA 305 Quantitative Methods for Administration	5
BUA 306 Introduction to Information Systems	5
BUA 307 Accounting for Planning and Control	5
BUA 309 Organization and Management	5
BUA 312 Business and Its Environment	5
ECO/BUA 311 Applied Macroeconomics	5

¹MAS 304, ECO 301 and ACC 300 will be waived if the student received an A, B, C in the appropriate lower division courses. (Please see a counselor to determine whether these courses should or should not be included in your academic program. If a student has successfully completed comparable courses at the lower level, upper division credit will not be given for MAS 304, ECO 301 and ACC 300).

²See pages 94-95 for the Public Administration core courses and program.

Major Required Courses: at the 400-500 level only	25
Electives:	5-20
	00

RECOMMENDED COURSE SEQUENCES FOR UNDERGRADUATE PROGRAMS

ACCOUNTING

The Bachelor degree program in Accounting consists of three parts: the Core (45 quarter-hours), the Concentration in Accounting (25 quarter-hours), and Electives (20 quarter-hours, of which 10 must be in Business Law, if the two course sequence was not completed previously).

Courses for an emphasis in Managerial Accounting are:

Required Courses: ACC 401, ACC 402, ACC 405, ACC 505, ACC 408 or 508.

Elective Courses: ACC 495, ACC 505, ACC 511, BUA 408, BUA 496, ECO 307, ECO 308, FIN 4XX, MAN 530, MAN 551, MAN 552.

Courses for an emphasis in Financial and Public Accounting are:

Required Courses ACC 401, ACC 402, ACC 405, ACC 406, ACC 407.

Elective Courses: ACC 408 or 508, ACC 496, ACC 502, ACC 503, ACC 506, ACC 511, ACC 517, BUA 408, BUA 496, ECO 307, ECO 308, FIN 4XX.

FLORIDA CPA REQUIREMENT

Completion of a Bachelor of Business Administration with emphasis in public accounting is accepted by the Florida State Board of Accountancy as fulfilling requirements to sit for the Certified Public Accountant Examination.

The following is model schedule with several aptions that must be followed by the typical fulltime student who (1) has completed all of the freshman-sophomore requirements, and (2) wishes to complete the undergraduate accounting program with emphasis in Public Accounting. Deviations from this schedule must be approved by the Chairperson of the Finance and Accounting Division. (The student possessing a non-business baccalaureate degree should consult a School of Business and Organizational Sciences academic counselor for alternative pragrams that meet the Florida State Board of Accountancy requirements.)

Suggested Program of Study

Quarter 1
BUA/MAS 305
BUA 309
BUA 307
Note: Pre-core deficiencies must
be completed in Quarter 1.

Quarter 4
BCC 402
BUA 302
BUA 307
Elective**
* English (written
communication) or LAW 401,
if not completed previously

Quarter 2 ACC 405 (may be taken later) BUA 306 ECO 311

Quarter 3 ACC 401 (may be taken in Quarter 2) *BUA 303 BUA 312 Quarter 5
ACC 406
*BUA 301
Elective: ACC 503; BUA 408
(and/ar a 400 level finance
course); LAW 402 (if nat
campleted previously).

Quarter 6 ACC 406 *BUA 301 Elective: BUA 496 strongly recommended or required (see advisor)

FINANCE

The Bachelors degree program in Finance consists of (1) the core courses (45 quarter hours), an area of concentration in Finance (25 quarter hours), and electives (20 quarter hours).

The areas of concentration in Finance are as follows:

- Managerial Finance FIN 405 (Policies for Financial Management) and FIN 406 (Topics in Finance)
- Financial Institutions and Markets FIN 415 (Nonbank Financial Intermediaries and Markets) and FIN 416 (Commercial Bank Management)
- 3. Investments --- FIN 425 (Security Analysis) and FIN 426 (Tapics in Investment Analysis)

The Finance concentration consists of five courses selected from the above three areas. The student majoring in Finance is urged to elect courses in micro-and macro-economics. The prerequisite for 400 and 500 level finance courses is BUA 301.

Suggested Program of Study

 Quarter 1
 Quarter 3
 Quarter 5

 BUA/MAS 305
 BUA 303
 Three electives

 BUA 307
 BUA 306
 Quarter 6

 BUA 309
 BUA 312
 Quarter 6

 Three electives: BUA 396
 Strongly recommended or

Three electives

BUA 301 BUA 302 ECO 311 required (see advisor.)

^{*}These courses may be taken in any order.

INSURANCE

An Insurance major is offered through the Division of Policy, Marketing, and Environment. An Insurance major is required to take 25 quarter hours of Insurance courses at the 400 level. For most students majoring in Insurance the following five courses are recommended:

INS 405 — Principles of Insurance (5) INS 412 — Property Insurance I (5) INS 410 — Casualty Insurance II (5) INS 413 — Property Insurance II (5) INS 411 — Casualty Insurance II (5)

These five insurance courses have been approved by the State of Florida Insurance Commissioner's office to fulfill the educational requirements for taking the 2-20 license examination.

A student may, however, after consultation with his or her major advisor, choose to take other courses such as INS 407 — Live Insurance, INS 418 — Management of Insurance Enterprise, or other Insurance offerings.

MANAGEMENT

The Division of Management offers degree programs of study at the Bachelors level in Organizational Theory, Personnel Management, Behavioral Science, Management Science, Management Information Systems, and Health Care Management. (The undergraduate program in Health Management is jointly offered by the School of Health and Social Services. For admission requirements, consult the Department of Health Sciences, School of Health and Social Services). 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.

Suggested Program of Study

Quarter 1	Quarter 3	Quarter 5
BUA/MAS 305	BUA 306	Two courses with MAN prefix
BUA 307	BUA 312	One elective*
BUA 309	BUA 408	
		Quarter 6
Quarter 2	Quarter 4	BUA 496 — Policy Analysis
BUA 301	ECO 311	Two electives*
BUA 302	One course with MAN prefix	
BUA 303	One elective course*	

^{*}Elective courses may be taken in any academic area.

Alternative Courses for Management Students in Specific Subject Areas

-1.	Personnel Management: 2.	Management Information Systems:
	MAN 457 Personnel Management (5)	BUA 408 Managerial Decision Making (5)
	MAN 454 Industrial Relations (5)	MAN 422 Information Systems Development (5)
	MAN 463 Personnel Requirement and Selection (5)	MAN 428 Production Information Systems (5)
	MAN 464 Wage and Salary Administration (5)	MAN 420 Simulation of Management
	BUA 496 Business Policy (5)	Systems (5)
		BUA 496 Business Policy (5)

MARKETING

The Bachelor degree program in Marketing requires 25 quarter hours of marketing courses beyond the core course (BUA 303 Principles of Marketing). Of these 25 credit hours, 15 hours consist of the following required courses:

MAR 404	Intermediate Morketing Management	(5)
MAR 410	Introduction to Consumer Behavior	(5)
MAR 411	Introduction to Marketing Research	(5)

The remaining 10 credit hours may be elected by the student with his or her advisor from other marketing courses available.

PUBLIC ADMINISTRATION

The Public Administration Program is available for the student with two years of undergraduate work culminoting in the Associate of Arts degree or its equivalent who wants to develop his or her knowledge and skills for service in the public sector.

Lower Division Preparation: course work beyond the general education requirements at the community college level should include such areas as college algebra, economics, information systems, philosophy, political science, psychology and sacialagy.

UPPER DIVISION PROGRAM

		Quarter Hours
Required Co	ore Courses:	45
PAD 305	Administrative Statistics and Data Systems	5
or		
BUA 306	Introduction to Information Systems	5
BUA 309	Organization and Management	5
PAD 312	Public Policy and Its Administration	5
PAD 320	Personal Growth and Administrative Development	5
PAD 400	Concepts and Issues in Public Administration	5
PAD 403	Public Personnel Administration	5
PAD 405	Government and Administration of	
	Metropolitan Areas	5
PAD 410	Public Values, Ethics and Marality in	
	Changing Environment	5
PAD 428	Budgets and the Administrative Process	5
ublic Admini	stration Electives:	
		25
PAD 301	Financing Public Organizations	5
PAD 310	Organizational Group Processes	5
PAD 310	Administrators and the Legislative Process	5
PAD 321	International Comparative Administration	5
PAD 323	Administrative Interaction in the Public Sector	5
PAD 401		
	Politics of Administrative Organization	5
PAD 404	Organization and Administrative Theory	5
PAD 406	Administrative Law	5
PAD 407	Administrative Leadership and Behavior	5
PAD 408	Public Choice	5 5
PAD 409	Administration of Personnel Resources	_
Electives:		20
	taken fram among the numeraus undergradu-	
	offerings in Political Science, Economics, Soci-	
ology, Psy	chalogy, Management, Education, etc.	
		_
		90

Suggested Program of Study

Quarter 1	Quarter 3	Quarter 5
PAD 400	BUA 309	PAD 305 ar BUA 306
PAD 410	PAD 403	One PAD elective
One PAD elective	One PAD elective	One general elective
Quarter 2	Quarter 4	Quarter 6
PAD 312	PAD 320	Three general elective
PAD 428	PAD 405	courses.
One PAD elective	One PAD elective	

REAL ESTATE

A Real Estate major at the Bachelors degree level is offered through the Division of Policy, Marketing, and Environment within the School of Business and Organizational Sciences. The Real Estate major student is expected to take 25 quarter hours within the Real Estate course offerings or, with the consent of his or her advisor, in an allied field such as Urban and Regional Affairs. Under normal circumstances a Real Estate major without previous formal under-graduate work in the area will be expected to take the two introductory courses, (RES 390 — Introduction to Real Estate, and RES 391 — Legal Environment of Real Estate), along with three other 5 quarter hour courses chosen with the consent of his or her major advisor. These three classes may, and probably will be, at the 500 level.

TRANSPORTATION MANAGEMENT

Transportation Management is one of the Bachelors degree programs offered through the Division of Policy, Marketing, and Environment. The student who wishes to major in Transportation Management is required to take 25 quarter hours of Transportation Management courses at the senior (400) level. The student is encouraged to take TRA 405 — Transportation Systems and Services and TRA 492 — Transportation Policy for 10 quarter hours of major field credit. Besides these two courses, the student is encouraged to take three courses in Transportation Management such as TRA 406 — Mass Transportation and Urban Problems, TRA 409 — Principles of Transportation Logistics, and TRA 410 — Transportation Rate Making, or a field such as Air Transportation and take TRA 441 — Air Transportation, TRA 442 — Airport Management, and TRA 443 — Air-carrier Management.

The Transportation Management student with a technical orientation is recommended to consider courses in the School of Technology's Environmental Technology Systems Division's Transportation Technology area, prefixed TRT in this catalog.

GRADUATE STUDY

The Graduate Programs of the School of Business and Organizational Sciences offer the student advanced professional education for managerial careers in business and government. At the graduate level, the degrees of Moster of Business Administration and Moster of Science in Management are offered. Four certificate programs, in Management Informatian Systems, Personnel Administration, Real Estate, and Health Care are offered.

Generally, graduate programs in the School of Business and Organizational Sciences are aimed at accomplishing two objectives. The first objective is to provide the student with a sound foundation in a variety of management functions such as Marketing, Production, Accounting, Finance, Quantitative Methods, Decision-Making, and Behavioral Science. Based upon this foundation, the second objective of the programs in the School is to provide students with a specialization and expertise in a particular area of management so as to facilitate the student's performance on his or her entry or second level job.

ADMISSION REQUIREMENTS

To be eligible for admission to the Graduate Programs in the School of Business and Organizational Sciences at Florida International, the applicant must:

- Satisfactorily meet the general University requirements for admission to graduate programs.
- 2. Hold a Bachelors degree from a regionally accredited college or university.
- Meet the minimum standards regarding entrance examination scores and upper-division grades as determined by the faculty:
 - a) Admission to the Moster of Business Administration (MBA), the Moster of Science in Management-Accounting, or the Moster of Science in Management-Real Estate programs, and all other MSM programs, will be based upon a combination of the score on the Admission Test for Graduate Study in Business (ATGSB) and the upper division grade-point average (GPA). Specifically, the applicant must have a combined score of at least 725 points, computed as follows:
 - $(GPA \times 100) + (ATGSB score) = 725$, with a minimum 450 on the ATGSB.
 - b) Admission to the Master of Science in Management-Health Care Management or the Master of Science in Management-Public Administration programs, will be based upon either a "B" or better upper-division grade-point average or a score of 1000 or higher on the Graduate Record Examination (GRE).
- 4. A foreign student must present a minimum score of 500 on the TOEFL or equivalent on a comparable examination. (See General Admission Requirements for Foreign Studentsundergraduates and graduates, in the Admission section of the catalog.)
- 5. Be in good standing with previous colleges or universities attended.

APPEALS FOR ADMISSION

An applicant who seeks admission to full graduate standing as an exception to the entrance requirements, may, after being rejected, file an appeal in writing with the Graduate Coordinator who refers the cases to the School of Business and Organizational Sciences Graduate Appeals Committee for review. A student may appeal only once.

APPLICATION PROCEDURES FOR THE MASTER OF BUSINESS ADMINISTRATION AND THE MASTER OF SCIENCE IN MANAGEMENT PROGRAMS

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

- Submit a graduate application for admission to the Admissions Office of Florida International. Application forms will be mailed upon request. The admission process may require as much as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
- Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution(s) to the Admissions Office of Florida International. Copies submitted by applicants are not accepted for application purposes.
- (a) The candidate applying to the MBA, MSM Accounting and MSM Real Estate programs, must submit his or her scores on the Admission Test for Graduate Study in Business (ATGSB), administered nationally by the Educational Testing Service (Box 966, Princeton, New Jersey, 08540). Registration Forms will be mailed upon request.
 - (b) The candidate applying to the MSM Health Care and MSM Public Administration programs, must submit his or her scores on the *Graduate Record Exam* (GRE), administered nationally by the Educational Testing Service (Box 955, 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.*
- (a) Complete a minimum 45 quarter hours of graduate level coursework, beyond the Common Body of Knowledge, ** for the Master of Science in Management programs.
 - (b) Complete a minimum 60 quarter hours of graduate level coursework, beyond the Common Body of Knowledge,** for the Master of Business Administration.
- Earn a minimum average of B or the equivalent in all graduate work. A student with a C or less in two or more courses may have his admission to the program rescinded.

*The student's Program of Study is developed by the student and his faculty advisor and must be approved by the Division Chairman and the Dean of the School of Business and Organizational Sciences.

**The "Common Body of Knowledge" shall include the equivalent of one year of work comprising the following areas: (a) a background of the concepts, processes, and institutions in marketing and distribution, production, and financing functions of business enterprise; (b) a background of economic and legal environment of business enterprise along with consideration of the social and political influences of business; (c) a basic understanding of the concepts and methods of accounting, quantitative methods, and information systems; (d) a study of organization theory, interpersonal relationships, control and motivation systems, and communications; (e) a study of administrative processes under conditions of uncertainty including integrating analysis and policy determination at the overall management level.

GRADUATION PROCEDURES

See the procedures described on page 91.

TRANSFER CREDIT

Beyond the Common Body of Knowledge, the student may receive permission to transfer up to 10 quarter hours of graduate credit to his or her degree program, provided that: (1) the course(s) were taken at the graduate level at an accredited college or university, (2) grade(s) of "B" or better were earned, and (3) the course(s) were judged by the faculty advisor, Division Chairperson, and Dean to be relevont to the student's graduate program. Credit is not transferable until the student has earned 25 quarter hours in his School of Business and Organizational Services graduate program. The credit must not have been used toward another degree.

MAXIMUM RECOMMENDED COURSE LOADS

500-LEVEL COURSES

500-level courses are open to graduate students and seniors. Master of Science in Management students may take a maximum of three 500-level courses. All other courses in the student's program must be at the 600-level (courses which are only open to graduate students). Master of Business Administration will normally take all work at the 600-level.

MASTER OF BUSINESS ADMINISTRATION

The objective of the *Master of Business Administration* (MBA) is to provide the student with a general background in the concepts and processes of administration. The MBA program at Florida International is aimed at developing a management generalist who has a breadth of knowledge and understanding, and who is oriented toward pragmatic problem solving. Limited specialist training is available for the student who has the necessary background.

The courses leading to the MBA degree are designed to provide a breadth of experience in the tools and concepts of business administration. The total MBA program is fixed at 60 quarter hours of 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 counselled 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 counselling out of a "regular" course, the student should have previously completed at least three to four courses in that functional area at the upper division level with above-satisfactory grades. Electives may be taken from any of the 600-level offerings within the SBOS. Students without accounting or statistical background will substitute MBA 605 — Managerial/Financial Accounting and MBA 607 — Quantitative Methods in Management for their electives.

MBA Program

Possible

		1 0331010
Area Economics* (Micro/Macro)	Regular Course ECO 606 Managerial Economics	Substitute Courses ¹ An elective in either Marketing or Finance. This substitute is only available to an economics
		major.
Information Systems	MBA 626 Organization Infor- mation Systems	MAN 621 Information Requirements Analysis
Quantitative Methods*	MBA 625 Managerial Decision- Making	MAN 630 Systems Analysis
Accounting**	MBA 627 Accounting for Decision-Making	MBA 613 Taxation MBA 612 Auditing FIN 655 International Finance
	10 0 1 1 1	

(Continued) Finance MBA 635 Financial Management FIN 615 Financial Markets (Corporate) and Institutions FIN 645 Financial Theory and Models FIN 655 International Finance MAN 630 Systems Analysis Operations MBA 637 Operations Management Marketing MBA 636 Marketing Management MAR 611 International Marketina: Marketing Analysis Management MBA 617 Organizational MAN 661 Group Processes Analysis MAN 650 Labor Relations MAN 671 International Management Environment MBA 615 World Dynamics and LAW 600 Business Law the Organization MBA 616 International Business Environment Policy MBA 699 Policy Analysis Na substitutes Flectives Two 600 level business ad-

ministration courses
(10 quarter hours) depending

and MBA 607

upon the waiver of MBA 605

NOTE: The first four categories — economics, information systems, quantitative methods, and accounting — must be satisfied *prior to* taking any other MBA courses. The policy course has to be scheduled for the *last quarter* of MBA study. Two electives are allowable within one program except as noted.

MASTER OF SCIENCE IN MANAGEMENT (MSM)

The Master of Science in Management Program provides an in-depth educational experience for the student desiring greater specialization in a particular area.

Concentrations within the Master of Science in Management program are available in the following areas: Accounting, Health Care Management, Real Estate, Public Administration.

The Master of Science in Management Program is a one to two year sequence depending upon the specific program and the applicability of the student's undergraduate course work. The type and number of prerequisite courses varies by the area of concentration. Each student will be counseled concerning his individual deficiencies, if any, and how they may be met.

A maximum of three courses (15 quarter-hours) may be taken at the 500 level out of the total 45 hours in the program.

At least 35 of the minimum 45 quarter hours must be taken in residence at Florida International University, which means that the student may receive transfer credit for up to 10 quarter hours of 500/600 level courses, with the approval of his faculty advisor.

Master of Science in Management programs are also available in Finance, and General Management. Pre-core requirements and length are generally the same as the MBA. Permission of the Dean is required for enrollment in these programs. An MSM in International Business is being planned. Contact the graduate coordinator of the School for information.

MSM ACCOUNTING

The MSM Program in accounting is designed primarily for the student with an undergraduate degree in accounting. The student with a bachelor's degree in another field may be admitted to this program after mastering the equivalent of the Common Body of Knowledge in business and the necessary accounting and business law courses.

¹ See the guidelines under program description above.

^{*}For the student without MAS 304 and BUA 305 (college algebra and Statistics) background; MBA 607 will replace one elective, to be taken *prior to* ECO 606 and MBA 625.

^{**}For the student without ACC 300 and BUA 307 (financial and Managerial accounting) background; MBA 605 will replace one elective, to be taken *prior to MBA 627* and MBA 635.

Due to varied career opportunities, the MSM Program in Accounting is divided into two subprograms and many variations are passible. The Managerial Accounting program is designed for the student who aspires to be an officer in business corporations, governmental units, or not-far-profit organizations. The Public Accounting program is designed for the student who aspires to be a certified public accountant and leader in the public accounting profession.

Program of Study

			Quarter Hours
R	Required Co	urses: selected from the courses	
b	elow; 15 of t	he required hours must be at the 600 level.	20
	ACC 501	Finoncial Accounting	5
	ACC 502	Standards and Principles of	
		Financial Accounting	5
	ACC 503	Advanced Financial Accounting	5
	ACC 504	Topics in Financial Accounting	5
	ACC 505	Topics in Managerial Accounting	1-5
	ACC 506	Governmental and Institutional Accounting	5
	ACC 507	International Accounting	5
	ACC 508	Accounting Information Systems	5
	ACC 510	Behavioral Accounting	5
	ACC 512	Auditing	5
	ACC 513	Accounting for Income Taxes	5
	ACC 514	Taxation of Corporations and Partnerships	5
	ACC 515	Taxation of Estates and Trusts	5
	**ACC 517	Accounting Problems	5
	ACC 526	International Taxation	5
	ACC 602	Seminar in Accounting Information Systems I	5
	*ACC 603	Seminar in Accounting Information Systems II	5
	*ACC 606	Managerial Accounting 11	5
	ACC 607	Seminar in Managerial Accounting I	5
	*ACC 608 9	Seminar in Managerial Accounting II	5
		Seminar in Accounting Theory I	5
	**ACC 611	Seminar in Accounting Theory II	5
	**ACC 612	Studies in Auditing	5
		Tax Planning and Research	5
		Independent Study in Accounting	1-5
	ACC 697	Special Topics in Accounting	1-5

^{*}Designed primarily for Managerial Accounting Majors

^{* *}Designed primarily for Public Accounting Majors

Mosters	Project ((required):
ACC 40	0.5	

ACC 695	5
Electives: selected with permission of the faculty odvisor	20
	45

MSM HEALTH CARE

The educational program in health care management is jointly offered by the School of Business and Organizational Sciences and the School of Health and Social Services. The program is not designed to provide appropriate academic preparation for people elevated from service positions to managerial positions in the health care industry and who will be leaders in the delivery of health services.

Program Prerequisites: One course each in mathematics and statistics (college algebra and introduction to statistics); one course in economics; two semesters or quarters of social sciences; one semester or quarter of accounting; one course in health delivery systems; one year of wark experience in the health core field.

Program of Study

		Quarter Hours
Required Co	ourses:	30
HCM 680	Problem Solving in Heolth Management	5
HCM 688	Finance and Marketing of Health Service	5
HCM 683	The Health Environment	5
HCM 684	Health Care Facilities Organization & Management	5
HCM 695	Master's Project	5

(Continued)

Electives: four	of the following courses:		15
HCM 515	Health Planning Techniques	5	
HCM 517	Human Resource Management in Health		
	Care Organizations	5	
HCM 518	Health Care Financial & Accounting Management	5	
HCM 685	Hospital Organization & Administration	5	
MBA 617	Organizational Analysis	5	
MAN 643	Personnel Training & Development	5	
MBA 626	Organizational Information Systems	5	
			45

MSM PUBLIC ADMINISTRATION

The MSM program with a cancentration in Public Administration is intended to facilitate conceptual, behavioral and interpersonal competence as applied to action in the public sector. The program is based upon a five course core requirement from which the individual is encouraged to develop area specialization through electives in the School of Business and Organizational Sciences and other schools and colleges of the University.

An applicant's background of formal courses and work experience in the following areas provides a suitable foundation for the graduate program: (a) economics; (b) finance, accounting, budgeting, or information systems; (c) manpower management; (d) political science; (e) quantitative methods. Individuals from all preparatory backgrounds may apply. Programs of graduate study will be designed to compensate for deficiencies in the above foundations.

Program of Study

		Quan	ter Hours
Required Courses:			25
PAD 600	Political, Social and Economic		
	Context of Public Administration	5	
PAD 601	Organizational Theory and		
	Administrative Behavior	5	
PAD 602	Public Finance and the Budgetary Process	5	
PAD 603	Research Methods in Complex		
	Public Organizations	5	
PAD 604	Public Palicy	5	
level course health and se	iny of the modules listed below or graduate s in political science, ecanomics, psychology, ocial sciences, education, etc. MSM in Public Administration student must dem-		20
onstrate cor	npetence in quantitative methods and public dministration. Otherwise, PAD 630 and PAD		
			_
			45

PLIBLIC ADMINISTRATION MODULES.

	PUBLIC ADMINISTRATION MODULES
Module 1:	PAD 610 — Development Administration
	PAD 611 — International Public Administration
Module 2:	PAD 520 — Values and Technology in Modern Society
	PAD 621 — Public Interest and the Public Trust
	PAD 622 — Democracy and the Administrative State
	PAD 523 — The American Military Establishment
Madule 3:	PAD 630 — Quantitative Methods and Camputer Skills
	PAD 631 — Management Information Systems
	PAD 632 - Decision-making Theory and Practice
	PAD 633 — Public Policy Analysis and Evaluation
Module 4:	PAD 640 — Public Personnel Administration
	PAD 641 — Dynamics of Individual Growth
	PAD 642 — Small Group Dynamics
	PAD 643 — Organizational Development and Change

(Continued on next page)

(Continued)

Module 5: PAD 650 — Regional and State Government Administration PAD 651 — Urban and Municipal Government Administration

Madule 6: PAD 660 — Administrative Law and Procedures PAD 561 — Collective Bargaining in the Public Sector PAD 562 — Administrators and the Role of Women PAD 663 — Gavernment and Minority Group Relations PAD 564 — The Public Administrator and Media Relations

MSM REAL ESTATE AND REGIONAL 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 developments; construction management; corporate real estate divisions; governmental agencies; appraising; marketing or residential, commercial, and industrial properties; property management, such as of large apartment complexes, office buildings, and shopping centers; conventional and creative real estate financing through financial institutions, such as commercial banks, savings and loan associations, life insurance companies, mortgage bankers and mortgage brokers; and teaching in the rapidly growing field of real estate education. Further, competent real estate talent is being called upon for participation in the rapidly growing field of real estate syndication, limited partnerships and joint ventures.

Pragram Prerequisites: one semester or quarter of financial management; two semesters or quarters of economics; one year of work experience in the real estate industry or an undergraduate major in business administration.

Program of Study

		Quarter Hours
Required Co	ourses:	25
RES 695	Masters Project	5
Four of the	following courses:	
RES 685	Seminar in Real Estate Finance	5
RES 686	Seminar in Real Estate Valuation Theory	
	and Practice	5
RES 687	Regional Planning and Development	5
RES 688	Seminar in Urban Housing Palicy and Problems	5
RES 689	Seminar in Real Estate Investment and Taxation	5
Electives: w	ith permission of the faculty advisor	20
		45

Remark: a specialization in industrial real estate is offered with the advise and support of the Society of Industrial Real-

CERTIFICATE PROGRAMS

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 culminate in the awarding of a certificate.

HEALTH CARE MANAGEMENT

The purpose of this program is to provide the student with a broad understanding of the principles of management skills and to increase his or her effectiveness in supervisory management. The program is designed for top and mid-level health facilities personnel, (assistant directors, supervisors, head nurses) managers, and department heads in all health care facilities, who are in responsible leadership positions.

Objectives of the program are to develop a program of managerial self-development which will enable each individual student to fulfill his managerial responsibilities; to update supervisory personnel in the most recent concepts of philosophy, principles, and techniques of modern supervision and to increase the effective and efficient use of allied and auxiliary health personnel in contributing to improved health care; and to provide each student with problem-solving tools and techniques as well as practice in their application to current problems.

Courses and other requirements are:

HSM 403 — The Team Approach to Service Delivery

HCM (HSM) 502 — Health Management Techniques

HSM (HCM) 495 — Legal Aspects and Legislation in Health Care

HCM (HSM) 517 — Human Resources Management in Health Facilities

Employment in a supervisory or administrative position in a health care facility is required.

For additional information contact the Management Division.

MANAGEMENT INFORMATION SYSTEMS

This Program is designed as a three course sequence for systems professionals and users heavily involved in the information systems development activity. These courses may be taken as part of a regular degree program or the opportunity exists for any interested individual to participate as a special student without pursuing a formal degree. The purpose of the Program is to provide advanced study to complement the work experience of practitioners who deal with information systems problems on a regular basis in their organizations. The sequence consists of three especially chosen courses to provide this complementary background:

MAN 550 — Information Systems in Organizations

MAN 551 — Analysis of Information Requirements

MAN 552 — Design of Information Systems

Additional information about these offerings may be obtained from the MIS Certificate Program coordinator in the Division of Management.

PERSONNEL ADMINISTRATION

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

The Certificate Program consists of three required courses plus one elective. The required courses are:

MAN 558 — Seminar in Personnel Management (5)

MAN 644 — Personnel Selection and Placement (5)

MAN 645 — Wage and Salary Administration (5)

The elective may be selected from the following:

MAN 643 — Personnel Training and Development (5)

MAN 650 - Labor Relations (5)

MAN 646 - Behavioral Science in Management (5)

MAN 690 — Research Methods in Management (5)

For information concerning admission to this program contact the Management Division.

REAL ESTATE AND REGIONAL DEVELOPMENT

In order to provide Real Estate professionals with an opportunity to do advanced University work in their area of specialization, the Real Estate Institute has initiated a certificate program in Real Estate. A Certificate of Completion signed by the Director of the Institute will be awarded to any student who completes a program of six five credit hour courses (30 hours total) in the Real Estate area of concentration at the upper division or graduate level. The courses will be selected during the orientation course with an advisor at the time of admission.

The Certificate Program will be given at a level equivalent to upper division and graduate work. In order to maintain the integrity of the certificate program a B average is required for course work taken, even though it is not a regular degree program. Grade B level performance is considered above average work. An individual will not be owarded the Certificate unless he or she performs above average overall for the six courses in the sequence.

This program is designed for individuals who are not necessarily interested in working for a graduate degree, but who desire advanced training in their area of specialization. The series of six courses covers major topics in the real estate industry. The courses cover these topics in depth from both a theoretical and practical viewpoint.

Qualification for the certificate program will be judged on the basis of the competence of the individual in his profession and not on previous college work or special examination. An interested professional discusses his background and interests with a faculty advisor who will determine the appropriateness of the certificate program for the individual and the acceptability of his qualifications. Upon acceptance by the advisor, the individual will register for a non-credit two hour orientation course through Continuing Education. The fee for this course will be \$25.00. The student will then register as a special student to satisfy the six course requirement for the certificate.

COURSE OFFERINGS

NOTE — Course numbers ending in -93, -95, and -97 are special topics courses and may be taken only by admitted students with the approval of the instructor, the division chairperson, and the Dean.

ACCOUNTING

ACC 300 ACCOUNTING FOR DECISIONS (5) (F,W,S,SS) Accounting concepts and techniques essential to administration of a business enterprise and the determination of income and financial position; asset and equity accounting in proprietorships and corporations.

ACC 301 INTRODUCTION TO THE ACCOUNTING PROCESS (2) (F,W,S,SS) Analysis of the occounting cycle and the technical procedures used in classifying, summarizing, and interpreting the transactions of a business entity. A strongly recommended elective to be completed by those wishing to reinforce their financial accounting knowledge prior to taking BUA 307.

ACC 401 FINANCIAL ACCOUNTING-INTERMEDIATE I (5) (F,W,S,SS) An exploration of concepts, standards, and principles underlying financial reporting with major emphasis upon the measurement, analysis, and interpretation of income and changes in financial position (funds flow). Prerequisite: BUA 307, or equivalent.

ACC 402 FINANCIAL ACCOUNTING-INTERMEDIATE II (5) (F,W,S,SS) A continuation of ACC 401 with major emphasis upon the occounting concepts, standards, and principles underlying the measurement and reporting of income and changes in financial position. Prerequisite: ACC 401.

ACC 405 MANAGERIAL ACCOUNTING (5) (F,W,S,SS) Determination and control of production costs; job order and process systems; actual and standard costs; budgetary control, cost and profit analyses, and other considerations for performance measurement and analysis. Prerequisite: BUA 307 or equivalent.

ACC 406 INCOME TAX ACCOUNTING (5) (F,W,S) A survey of federal income taxation with primary emphasis on the taxation of individuals and corporations. Prerequisite: ACC 402, or equivalent.

ACC 407 AUDITING (5) (F,W,S) Standards and procedures applied by independent public accountants, ethics and responsibilities of auditors, development of audit programs, occumulation of audit evidence, and reporting. Prerequisite: ACC 402, or equivalent.

ACC 408 ACCOUNTING SYSTEMS AND INTERNAL ANALYSIS (5) Design of accounting procedures; use of data processing equipment, internal control of business, and internal auditing, including cost and management audits. Prerequisite: ACC 402, or equivalent, and consent of instructor.

ACC 493 INDEPENDENT STUDY IN ACCOUNTING (1-10) (F,W,S,SS) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required. Written permission of the instructor, division chairperson, and dean required.

ACC 495 INTERNSHIP IN ACCOUNTING (1-10) (F,W,S,SS) A special program to encourage students to get an on-the-job introduction to professional accounting in a public accounting firm and/or in an industrial or not-for-profit enterprise or a governmental agency. It is expected that the public accounting internship will be offered for Winter Quarter and the industrial internship will be offered for the Summer Session. Prerequisites: ACC 402, 405, 407, or equivalents, for both internships. ACC 407, or the equivalent, is also required for the internship in Public Accounting. Written permission of the instructor, division chairperson, and dean required.

ACC 497 SPECIAL TOPICS IN ACCOUNTING (1-10) (F,W,S,SS) 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. Consent of faculty supervisor and divisional chairman required. Written permission of the instructor, division chairperson, and deon required.

ACC 501 FINANCIAL ACCOUNTING (5) (F,W,S) An exploration of concepts, standards, and principles underlying financial reporting with major emphasis upon the measurement, analysis, and interpretation of assets, equities, income, and changes in financial position. Prerequisite: MBA 605, BUA 307, or equivalent, and consent of instructor. No credit given if ACC 401 and 402, or equivalents, completed previously.

ACC 502 STANDARDS AND PRINCIPLES OF FINANCIAL ACCOUNTING (5) (F,S) A survey of official pronouncements on accounting standards and principles. Prerequisite: ACC 402 or ACC 501, or equivalent.

ACC 503 ADVANCED FINANCIAL ACCOUNTING (5) (F,W,S) Accounting for partnerships, business combinations, consolidated financial statements, diversified and multinational corporations, fiduciary relationships, and not-for-profit institutions. Prerequisite: ACC 402 or ACC 501, or equivalent.

ACC 504 TOPICS IN FINANCIAL ACCOUNTING (1-5) An in-depth study of recent developments in financial accounting. Prerequisite: ACC 402, ACC 502, or equivalent.

ACC 505 TOPICS IN MANAGERIAL ACCOUNTING (1-5) An in-depth study of recent developments in managerial accounting. Prerequisite: ACC 405, or equivalent.

ACC 506 GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (5) Budgeting, accounting, and reporting standards and practices for government and other not-for-profit entities. Prerequisite: ACC 402 or ACC 501, or equivalent.

ACC 507 INTERNATIONAL ACCOUNTING (5) Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurement; the role of accounting in national economic development. Prerequisite: ACC 503, or equivalent, or consent of instructor.

ACC 508 ACCOUNTING INFORMATION SYSTEMS ANALYSIS (5) Coverage of accounting usage of computers. Emphasis on auditing and control of EDP systems. Use of flowcharting, decision tables, computer software, and case studies. Coverage of EDP topics typically in the CPA examination. Prerequisite: ACC 300 or BUA 306, or equivalent; and MBA 605 and MBA 626, or equivalent.

ACC 510 BEHAVIORAL ACCOUNTING (5) Study of the effects of the process and products of accounting and of changes in the process and products on individual and group behavior; consideration given to how accounting can aid individuals and organizations to attain their goals. Prerequisite: ACC 402 or ACC 501 and 405, or equivalents.

ACC 511 ACCOUNTING AND QUANTITATIVE METHODS (5) Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: BUA 302, 305, and 306, or equivalents.

ACC 512 AUDITING (5) (W) The standards and procedures applied by independent public accountants and their ethical considerations and responsibilities in the rendering of opinions on enterprise financial statements; internal auditing and control; and accounting systems. Prerequisite: ACC 501, or equivalent, or consent of instructor. No credit given if ACC 407 and 408, or equivalents, completed previously.

ACC 513 ACCOUNTING FOR INCOME TAXES (5) (F,S) Exploration of concepts of federal income taxes and tax planning with emphasis upon the determination of taxable income for the individual, the partnership, and the corporation. Prerequisite: ACC 501, or equivalent, or consent of instructor. No credit given if ACC 406, or equivalent, completed previously.

ACC 514 TAXATION OF CORPORATIONS AND PARTNERSHIPS (5) An in-depth study of income toxation of corporations and partnerships, including tax planning. Prerequisites: ACC 406 or ACC 513, or equivalent.

ACC 515 TAXATION OF ESTATES AND TRUSTS (5) An examination of federal tax law of estates and trusts, and the tax accounting and planning for income, deductions, and distributions of such entities. Prerequisite: ACC 406 or ACC 513, or equivalent.

ACC 517 ACCOUNTING PROBLEMS (5) (W) Intensive study of selected advanced occounting topics including problems of multiple ownership, fund accounting, and actuarial applications; questions and problems from recent C.P.A. examinations. Prerequisite: ACC 503, or equivalent, or consent of instructor.

ACC 526 INTERNATIONAL TAXATION (5) Study of the U.S. taxation of foreign income. Topics include jurisdiction, source rules, foreign tax credit, tax treaty modifications, with emphasis on organization and planning for multinational operations. Prerequisite: ACC 406 or ACC 513, or equivalent.

ACC 602 SEMINAR IN ACCOUNTING INFORMATION SYSTEMS I (5) Application of general systems concepts to accounting, operational, and related planning and control information requirements. Topical coverage such as data base management systems, on-line real-time systems, time-shoring, etc., and application in accounting. Emphasis on the analysis of computer-bosed controls. Case histories and projects. Prerequisite: ACC 508, or equivalent.

ACC 603 SEMINAR IN ACCOUNTING INFORMATION SYSTEMS II (5) A continuation of ACC 602 with emphasis upon the theories underlying complex information systems. Prerequisite: ACC 602, or equivalent.

ACC 606 MANAGERIAL ACCOUNTING (5) In-depth study into the determination and control of production costs; job order and process systems; actual and standard costs; budgetary control, cost and profit analyses, and considerations of alternative methods of performance measurement and analysis. Prerequisite: ACC 405 or MBA 627, or equivalent.

ACC 607 SEMINAR IN MANAGERIAL ACCOUNTING I (5) (S) Analysis of tronsfer pricing, product pricing, incremental profit onalysis, decision models, alternative performance measurement techniques, and other advanced topics. Prerequisite: ACC 405 or M8A 627, or equivalent.

ACC 608 SEMINAR IN MANAGERIAL ACCOUNTING II (5) An intensive study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accomplishing, and evaluating company performance. Prerequisite: ACC 607, or equivalent.

ACC 610 SEMINAR IN FINANCIAL ACCOUNTING THEORY I (5) (W) A study of the theoretical structure of accounting, with special attention to asset and income definition, recognition, and measurement; an appraisal of pronouncements of professional accounting organizations. Prerequisite: ACC 503, or equivalent, or consent of instructor.

ACC 610 SEMINAR IN FINANCIAL ACCOUNTING THEORY II (5) A continuation of ACC 610 with emphasis on the problems of accounting for equities and price-level changes and other current issues. Prerequisite: ACC 600, or equivalent.

ACC 612 STUDIES IN AUDITING (5) (S) Professional and technical aspects of ouditing practice; ethics and legal responsibilities; review of field work emphosizing materiality, sampling, and working papers, reporting problems including long-form and special purpose reports; study of recent auditing developments. Prerequisites: ACC 407 or ACC 512, or equivalent.

ACC 613 INCOME TAX PLANNING AND RESEARCH (5) 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 406 or ACC 513, or equivalent.

ACC 693 INDEPENDENT STUDY IN ACCOUNTING (1-5) Individual conferences, supervised readings, reports on personal investigations. Consent of foculty tutor and divisional chairmon required.

ACC 695 MASTER'S PROJECT (5) (F,W,S,SS) An individualized research project, and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be token during the last half of the student's graduate program.

ACC 697 SPECIAL TOPICS IN ACCOUNTING (1-5) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

COE 325 COOPERATIVE EDUCATION-ACCOUNTING I (5) (S) A special program permitting accounting students to work during alternating quarters, up to a maximum of 3 quarters, in a public accounting firm, on industrial or, a not-for-profit enterprise, or a governmental agency in a job related to the area of concentration in their university program.

COE 425 COOPERATIVE EDUCATION-ACCOUNTING II (5) (S) To enable qualified students to gain experience in a work environment related to their academic program and, in the school quarters, to be full-time students not hompered by job pressures.

MBA 612 AUDITING FOR MANAGERS (5) An exploration of the concepts and objectives of internal control, ouditing, and oudit reports from the point of view of the manager.

MBA 613 TAX ACCOUNTING FOR MANAGERS (5) An exploration of the concepts of federal income taxation and tax planning from the point of view of the manager.

BUSINESS ADMINISTRATION (BUA) CORE COURSES

ACC/BUA 300 ACCOUNTING FOR DECISIONS (5) (F,S,W,SS) Accounting concepts and techniques essential to administration of a business enterprise and the determination of income and financial position, asset and equity accounting in proprietorships and corporation.

ECO 301/BUA 310 ECONOMICS, MAN AND SOCIETY (5) (F,S,W,SS) Relationship of economics to individual and group action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public ogencies, and interest groups. Public issue interpretation in the light of economic theory.

MAS/BUA 304 QUANTITATIVE METHODS FOR ADMINISTRATION I (5) (F,S,W,SS) The use of statistical tools in management. Starting with on introduction to probability, the course provides an introduction to a wide range of statistical techniques used in management sciences. It includes descriptive statistics, statistical inference, testing of hypothesis, regression and correlation analyses, and special topics such as construction dindex numbers and time series analysis. The use of quantitative tools in management. Statistical methods, testing, and other quantitative applications to management are drown together to provide tools for management efficiency.

BUA 301 FINANCIAL MANAGEMENT (5) (F,S,W,SS) The financial functions of obtaining capital, managing assets, and of expending resources are examined from the perspective of a manager, as well as a financial officer. Attention will also be directed to some aspects of security market operations.

BUA 302 OPERATIONS MANAGEMENT POLICY (5) Basic concepts and application of management science techniques for the design, analysis, and control of operational systems. The systems considered include those found in industry, the services, and the public sector. Among others, topics discussed include decision theory, financial analysis, forecasting, production, inventory and quality control, and simulation. Interrelationships of these areas to other functions within organizations are emphasized. Prerequisite: BUA 305 or equivalent.

BUA 303 PRINCIPLES OF MARKETING (5) (F,W,S,SS) A descriptive study emphasizing the functions and institutions common to marketing systems.

BUA/MAS 305 QUANTITATIVE METHODS FOR ADMINISTRATION (5) (F,W,S,SS) The use of statistical tools in management. Starting with an introduction to probability the course provides an introduction to a wide range of statistical techniques used in the management sciences. It includes descriptive statistics, statistical inference, testing of hypotheses, regression and correlation analyses and special topics such as construction of index numbers and time series analysis.

BUA 306 INTRODUCTION TO INFORMATION SYSTEMS (5) (F,W,S,SS) 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.

BUA 307 ACCOUNTING FOR PLANNING AND CONTROL (5) (F,W,S,SS) Use of accounting concepts, techniques and financial data as an aid to management planning, coordination and control. Topics covered include cost behavior and control, budgeting, analysis concepts, performance measurement and analysis, and capital budgeting. Prerequisite: ACC 300 or equivalent.

BUA 309 ORGANIZATION AND MANAGEMENT (5) (F,W,S,SS) 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.

BUA 312 BUSINESS AND ITS ENVIRONMENT (5) An examination of the interaction between business and the social, political, and legal order. Analysis of the appropriate and actual relationships and responsibilities of business to its various publics. The nature of property and profits, the balancing of claims of owners, employees, customers and citizens; elements of constitutional law; competition and monopoly; anti-trust policies and practices. Stress on the broad effects of the total environment upon the administration of the private sector of organization.

ECO/BUA 311 APPLIED MACROECONOMICS (5) (F,W,S,SS) Aggregate economic performance and business conditions analysis. Analysis of the nature and causes of business fluctuation. Economic expansions and stagflatian public policies for economic stability: fiscal policy, monetary policy and incomes policy. Sectoral analysis and macroeconomic forecasting. Prerequisite: ECO 301 or equivalent.

BUA 496 POLICY ANALYSIS (5) (W,S) The use of cases, guest lecturers, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Prerequisite: Should be taken in the last quarter of the senior year.

BUSINESS ENVIRONMENT AND POLICY

BEP 401/ECO 417 MODERN BUSINESS HISTORY (5) An examination of the history of the corporation in the United States since the Civil War up to, and including, the development of the multinational corporation. An examination of the social and economic forces operative in the development of the corporate form. A full exploration of the current power of the corporate — and legal, and other, efforts to limit it. Prerequisite: BUA 312 or consent of instructor.

BEP 402 SOCIAL RESPONSIBILITY AND SOCIAL ACCOUNTING (5) The sources of the conception of corporate social responsibility. An examination of the classical doctrines as well as the developing 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: BUA 312 or consent of instructor.

BEP 403 BUSINESS ENVIRONMENT AND POLICY FORMATION (5) 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: BUA 312 or consent of instructor.

BEP 404 THE CORPORATION AS SOCIAL SCIENCE (5) Sociological, anthropological, psychological studies of corporate management and the effect of corporate behavior. Emphasis will be upon existing data and on the development of research oriented proposals intended to develop new insights into the application of social science techniques to the problems of business as an institution and the society. Prerequisite: BUA 312 or consent of instructor.

BEP 405 BUSINESS AND THE ECOLOGY (5) A course on the effect of industrialization and technological change on the physical environment. An examination of the current legal, economic and political consequences of pollution, environmental damage, and abatement of these factors. Prerequisite: BUA 312 or consent of instructor.

FINANCE

FIN 310 PERSONAL FINANCE AND RESOURCE MANAGEMENT (5) (F,S,) The application of organization, finance, and management, cancepts and methods to aid the individual in making personal financial and career decisions.

FIN 405 POLICIES FOR FINANCIAL MANAGEMENT (5) (F,W,) The process of securing and allocating funds within the organization with emphasis on the relevant financial decision-making and policy aspects.

FIN 406 TOPICS IN FINANCE (5) (S) Extensions of topics selected from those covered in Finance 405. Specific topics may vary with students interests.

FIN 415 NONBANK FINANCIAL INTERMEDIARIES AND MARKETS (5) (W) The role of financial institutions, the sources and uses of funds of nonbank financial intermediaries, the objectives and constraints of these intermediaries, and the supply and demand for loanable funds in different financial markets.

FIN 416 COMMERCIAL BANK MANAGEMENT (5) (F,S,) The management of bank assets and liabilities, specialized banking functions and the rale of the commercial bank in financing business.

FIN 425 SECURITY ANALYSIS (5) (F,W) The intrinsic value and technical approaches to security analysis, personal portfolio development.

FIN 426 TOPICS IN INVESTMENT ANALYSIS (5) (S) Extensions of topics selected from those covered in Finance 425. Specific topics will reflect student interests.

FIN 435 FINANCIAL POLICIES OF NOT-FOR-PROFIT ORGANIZATIONS (5) (W) 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.

FIN 493 INDEPENDENT STUDY IN FINANCE (1-10) (F,W,S,SS) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and division chairman required.

FIN 497 SPECIAL TOPICS IN FINANCE (1-10) For groups of students who wish an intensive study of a particular topic of a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and division chairman required.

FIN 507 WORKING CAPITAL MANAGEMENT (5) Intermediate theories and techniques of cash, amounts receivable, inventory, and amounts payables management. Prerequisite: BUA 301 or MBA 635.

FIN 508 SECURITY ANALYSIS AND STOCK MARKET OPERATIONS (5) Various approaches to evaluating the "worth" of a potential commitment of funds to a given security will be analyzed. In addition, the structure and operations of the various stock and bond exchanges will be clarified.

FIN 517 FINANCIAL MANAGEMENT OF SAVINGS AND LOANS (5) Financial management of savings and laan associations and other mortgage lenders; supply and demand of mortgage funds, state and federal regulatory bodies legal and institutional characteristics and of mortgage markets. Prerequisites: BUA 301 or MBA 635.

FIN 545 SMALL BUSINESS FINANCE (5) The financial markets, financial instruments, and managerial policies and techniques available to potential and existing entrepreneurs and owner/managers. Emphasis will be upon analysis of areas of opportunity for small business, analysis of financing alternatives, and analysis of profitability.

FIN 555 FINANCIAL MANAGEMENT IN THE MULTINATIONAL CORPORATION (5) Capital budgeting, operational analysis, and financing decisions in the multinational context. Working capital management and intrafirm fund transfers. Measurement and evaluation of risk of internationally diversified assets. Prerequisite: None.

FIN 605 ASSET SELECTION AND MANAGEMENT (5) The selection and management of short-term and long-term assets to achieve corporate objectives; working capital management and capital budgeting under certainty risk.

FIN 606 BUSINESS FINANCIAL STRUCTURE (5) The selection and management of alternative sources of funds to obtain the optimal capital structure: Short-term financing, long-term financing, constraints and cyclical phenomena affecting capital structure, stockholder relations, reorganizations and mergers.

FIN 615 FINANCIAL MARKETS (5) Demand for and supply of loonable funds in several major financial markets, money market instruments, and the role of financial institutions in financial markets.

FIN 616 MANAGEMENT OF DEPOSIT INSTITUTIONS (5) The objectives, constraints, and policies applicable to the management of financial institutions having primary deposit functions: Commercial banks, saving and loan associations, savings banks, and credit unions.

FIN 617 MANAGEMENT OF NONDEPOSIT INSTITUTIONS (5) The objectives, constraints, and policies applicable to the management of the nondeposit financial institutions: Life insurance companies, property and cosualty insurance companies, pension funds, investment companies, real estate investment trusts, and finance companies.

FIN 625 SECURITY ANALYSIS (5) Various opproaches to evaluating the worth of a commitment of funds to a given security, personal portfolio development, and the investment environment.

FIN 626 PORTFOLIO MANAGEMENT (5) Financial theories will be opplied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to goals of individuals, corporations, and various financial institutions.

FIN 635 FINANCIAL MANAGEMENT OF GOVERNMENTAL ORGANIZATIONS (5) This budgetary process of identifying, justifying, and allocating funds. Stresses the securing of funds in the morket and the efficient allocation of funds.

FIN 640 CAPITAL BUDGETING AND LONG TERM RESOURCE ALLOCATION (5) The theory of capital allocation at the level of the firm and empirical findings. Decision models and their application. The pottern of capital expenditure of industries and of the economy as a whole. Investment determinants. Prerequisite: MBA 635.

FIN 645 THE THEORY OF FINANCE (5) The rigorous theory of rational financial decision-making under both certainty and uncertainty to provide a bosis for judging existing practice and a framework that readily accepts new developments in the field.

FIN 646 QUANTITATIVE METHODS IN FINANCIAL ANALYSIS (5) The applications of computer techniques to financial management of manufacturing firms and financial institutions. Prerequisite: MBA 635 or MBA 607.

FIN 655 INTERNATIONAL FINANCE (5) A comparative study of the institutional characteristics and internal efficiency of developed and underdeveloped capital markets. The relationships between world 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 flaws. The development of financial centers. Prerequisite: MBA 635.

FIN 693 INDEPENDENT STUDY IN FINANCE (1-5) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairmon required.

FIN 695 MASTER'S PROJECT (5) 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.

FIN 697 SPECIAL TOPICS IN FINANCE (1-5) For groups of students who wish intensive study of a particular tapic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

HEALTH CARE MANAGEMENT

HCM/HSM 502 HEALTH MANAGEMENT TECHNIQUE (5) Survey of management techniques, behavioral and quantitative, as applied to the health industry.

HCM/HSM 513 MANAGEMENT ANALYSIS IN HEALTH CARE INSTITUTIONS (5) Basic theory and problem solving techniques including various methods of collecting, analyzing, reporting, and using information that can be made available to administrators of hospitals and other health care institutions.

HCM/HSM 514 HEALTH CARE SYSTEMS (5) Description of various health care administrative systems, discussion of various health care problems and programs. Quality of health care, group practice and prepayment programs.

HCM/HSM 515 HEALTH PLANNING TECHNIQUES (5) Bosic health planning methods and procedures. Functions performed and special support techniques of hospital, medical public health, nursing homes, educational and similar associations. Prerequisites: 1 semester of basic statistics, HSM 304.

HCM/HSM 517 HUMAN RESOURCES MANAGEMENT IN HEALTH FACILITIES (5) The personnel administration function in the Health facilities. Includes study of personnel policies and procedures; recruitment, training, and retention of employees; personnel relations and benefit programs; motivation in human productiveness; group costs, the study of labor relations in the health field.

HCM/HSM/FIN 518 HEALTH CARE FINANCIAL AND ACCOUNTING MANAGEMENT (5) The financial frame work within which health care organizations and facilities operate. The course covers the principles of working capital management, copital budgeting, and the capitalization process in the health care environment. Topics emphasized include inventory management, accounts receivable management, sources of op-

erating revenue, third party payers, budgeting for operating costs, long-term investment, and long-term financing. The student is expected to understand and participate in the financial decision-making process of health care organizations.

HCM/MAS 519 QUANTITATIVE ANALYSIS FOR HEALTH CARE (5) This caurse is designed to introduce the student of health care to various techniques of health data analysis. The format and development of the course material are intended for those with little mathematical background, basic algebra being the only requirement for the course. Topics cavered are chosen for and related to their practical and potential applications in the health area.

HCM/HSM 680 PROBLEM SOLVING IN HEALTH MANAGEMENT (5) An examination of the quantitative and behavioral management tools as applied to actual cases. This course is designed to equip the student with logical decision making techniques in salving management problems in health care facilities. Prerequisites: HSM 400, HSM 401 or equivalent.

HCM/HSM 681 HEALTH RESEARCH AND ANALYSIS (5) Introduction to technique and methods of gathering and interpreting health care information. Survey and experimental statistical design, analysis and computer simulation will be covered.

HCM/HSM 682 HEALTH DELIVERY SYSTEMS (5) Description of various health care delivery systems in the U.S. and other countries. The relationship to the social delivery system. Quality of health care, group practice and prepayment programs.

HCM/HSM 683 THE HEALTH ENVIRONMENT (5) The relationship of the health delivery system to public policies and legislation at various levels. The role of comprehensive health planning. The relationship to other public urban subsystems such as transportation, education, hausing and pallutian control.

HCM/HSM 684 HEALTH CARE FACILITIES ORGANIZATION AND MANAGEMENT (5) Analysis of the practical and dynamic aspects of health care facilities operation. Emphasis is given to basic organization of the facilities, the function of the Board of Directors, medical staff arganization, the rale of the administrator, and the management techniques used. Prerequisite: HSM 400 or equivalent.

HCM/HSM 685 HOSPITALS ORGANIZATION AND ADMINISTRATION (5) Introduction to the organization and administration of acute care facilities. The course will provide appartunities to study the performance of hospitals and other health facilities through selected field experience.

HCM/HSM 686 PLANNING FOR COMMUNITY HEALTH (5) Designed for the student in the health management program. By focusing on contemporary health issues the course exomines the community decision making approach to the study of planning and organizing the delivery of health services by demonstrating the relations between theoretical and sociopalitical aspects of comprehensive health planning. Prerequisite: HCM 515.

HCM/HSM 687 SEMINAR IN HEALTH MANAGEMENT (1-10) Consideration of selected problem areas in health management including policy formulation, executive development, and cost-benefit analysis. Prerequisite: Consent of instructor.

HCM/HSM 688 FINANCE AND MARKETING OF HEALTH SERVICES (5) The course concentrates on the financing and marketing of health services such as long-term financing, the capitalization pracess, price, location, and promotion strategies.

HCM 689 HEALTH CARE ORGANIZATION This course examines illness as a phenomenon which bath influences and is influenced by Saciety (the Culture). As such, it can be viewed as a social deviance — which patients, provider & the Society attempt to control. An examination of conceptual, methodological & substantive issues in the study of Social Psychological & demagraphic factors which relate to occurrence of morbidity & martality.

HCM/HSM 693 INDEPENDENT STUDY IN HEALTH CARE MANAGEMENT (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty sponsor, Division Chairman, and Dean required.

HCM/HSM 695 MASTER'S PROJECT IN HEALTH CARE MANAGEMENT (1-10) Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic shall be chosen in consultation with a faculty member in the School.

HCM/HSM 697 SPECIAL TOPICS IN HEALTH CARE MANAGEMENT (5) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of foculty tutor, Division Chairman, and Dean required.

INSURANCE

INS 405 PRINCIPLES OF INSURANCE (5) Types of risk; methods of handling risk; analysis of insurance as a principal method; organization and operation of insurance campanies; bases for decision making in management of personal and business risks.

INS 407 LIFE INSURANCE (5) Functions and uses of life insurance, types of policy controcts, calculation of premiums and reserves; investments; legal principles; organization, management, and supervision of companies.

INS 408 RISK MANAGEMENT (5) Concepts and philasophies of risk management; application of alternatives ta handling risks, including risk retentian, lass preventian, carporate insurance programs and self-insurance; insurance surveys and case studies.

INS 409 INSURANCE LAW (5) Legal environment and essentials of the law porticularly applicable to the business of insurance; emphasis on statutory regulation in Florida.

INS 410 CASUATTY INSURANCE I (5) A broad concept of casualty insurance, including a thorough review of basic policies, dailies, underwriting, and losses; multiple line and comprehensive forms. Subjects cavered include property and personal liability insurance, bailer and machinery insurance, air insurance, inland and ocean marine insurance, workmen's compensation, and surety.

INS 411 CASUALTY INSURANCE II (5) A continuation of INS 410, but including agency management and company administration.

INS 412 PROPERTY INSURANCE I (5) Basic principles of fire, and allied lines insurance, including standard fire insurance contracts, declarations, agreements, canditions, and exclusions; fire insurance forms, clauses, and endorsements; special and allied fire lines; marine and other insurance.

INS 413 PROPERTY INSURANCE II (5) Multiple-line risk and risk management; the multiple-line insurance industry; property and liability hazards and policy contracts; functional aspects of underwriting, rate making, and claims handling.

INS 415 PERSONAL INSURANCE PLANNING (5) Planning a personal program of insurance, integrating life, health and accident, property, pensions, and governmental pragrams.

INS 416 BUSINESS AND ESTATE INSURANCE PLANNING (5) Applications of life and health insurance to business and estate planning situations; emphasis an current practices and developments in retirement planning, business continuation, and estate conservations.

INS 417 GROUP INSURANCE AND PENSION PLANS (5) Group life and health insurance; policy terms, rates, and benefits; pension and profit sharing plans; organization, costs, administration, taxation, and legal aspects underlying pensions.

INS 418 MANAGEMENT OF INSURANCE ENTERPRISE (5) Analysis of the operations of insurance arganizations; underwriting, rate making, regulation, legal arganization, management and control, financial analysis, marketing systems.

INS 428 SOCIAL INSURANCE (5) Intraductory analysis of the rationale for social insurance; structure of current social insurance programs; evaluation of programs; old-age, survivors, health, disability, and unemplay-

INS 493 INDEPENDENT STUDY IN INSURANCE (1-10) Individual conferences, supervised readings, reports on personal investigations. Cansent of faculty tutor and Divisional Chairman required.

INS 497 SPECIAL TOPICS IN INSURANCE (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, nat atherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

INS 535 EMPLOYEE BENEFITS AND EXECUTIVE COMPENSATION PLANS (5) Emphasis on employee benefit plans; consideration of executive compensation, contractual arrangements, benefit formulas, and financing of death, disability, and retirement benefits; problems and palicies.

INS 600 GRADUATE SURVEY OF INSURANCE (5) Graduate examination of current problems in insurance, including theory of insurance, uses af insurance in business arganizations; property and liability insurance, health insurance, and life insurance.

INS 693 INDEPENDENT STUDY IN INSURANCE (1-10) Individual conferences, supervised readings, reports on personal investigations. Cansent af faculty tutor and Divisional Chairman required.

INS 697 SPECIAL TOPICS IN INSURANCE (1-10) Intensive study for graups of students of a particular tapic or a limited number of tapics, not otherwise offered in the curriculum. Consent of faculty supervisar and Divisional Chairman required.

BUSINESS LAW

LAW 401 BUSINESS LAW I (5) Principles of law affecting the legal environment of business; law of cantracts; sales; torts; agency and employment; legal relations of government and business.

LAW 402 BUSINESS LAW II (5) Bailments; shipment and sale of goods; suretyship; bankruptcy; commercial paper; real and persanal property; insurance; relevant provisions of uniform commercial code.

LAW 407 BUSINESS LAW REVIEW (5) Intensive review of those fields of law usually covered in CPA, CLU, and CACU law examinations.

LAW 410 LEGAL ENVIRONMENT OF BUSINESS (5) Legal environment of business; analysis of legal principles affecting management; the rale of law in business decisions; the legal tool as a system for order in the business arena; its effectiveness as a planning instrument. This course is a study of the importance of the impact

of the law and legal institutions upon 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 decision, the power of constitutional provisions, various aspects of employment legislation, as well as other select topics.

LAW 493 INDEPENDENT STUDY IN BUSINESS LAW (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

LAW 497 SPECIAL TOPICS IN BUSINESS LAW (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairmon required.

LAW 600 SURVEY OF BUSINESS LAW (5) Graduate level survey of business law which examines the social purposes, functions and forms of the law and the courts, particularly as they relate to business organizations.

LAW 693 INDEPENDENT STUDY IN LAW (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

LAW 697 SPECIAL TOPICS IN LAW (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

MANAGEMENT

BUA 408 MANAGERIAL DECISION-MAKING (5) This course will concentrate on practical decision problems for the manager in an organization. Emphasis will be placed on the environment and definition of managerial problems and practical approaches to solving these problems. Prerequisite: BUA 305.

MAN 407 MANAGEMENT SCIENCE (5) Survey of management science-operations research from an applied point of view. Emphasis on the formulation of models of business problems such as: Allocations, Inventories, Project Management, Replacement, Transportation, Scheduling, Sequencing, Queuing Theory, and Competition. Prerequisites: BUA 305, or equivalent.

MAN 410 PRINCIPLES OF OPERATIONS RESEARCH 1 (5) Application of deterministic operations research models such as linear and nonlinear programming, networks (CPM), dynomic programming, and branch and bound techniques to managerial problems of allocation, planning and scheduling investment, and control prescheduling, investment, and allocation. Prerequisite: BUA 408.

MAN 420 SIMULATION OF MANAGEMENT SYSTEMS (5) Basic concepts in computer simulation of systems. Application of these concepts in a variety of managerial problems. The course covers waiting line models, continuous simulation models, heuristic methods, and management games. Several computer programs and languages for simulation are presented. Exposure to the operation and analysis of some simulation models. Prerequisite: BUA 305, 306, or equivalent.

MAN 422 INFORMATION SYSTEMS DEVELOPMENT (5) An intermediate level study of the analysis and design phases of the information systems development cycle. Covers topics in problem identification, specification of user requirements, enumeration of alternative design, and choice of the best design for the situation.

MAN 427 PERSONNEL INFORMATION SYSTEMS (5) A survey of personnel reporting requirements; assessment of information needs, manpower planning and development of integrated personnel systems. Prerequisites: BUA 306 and MAN 457.

MAN 428 PRODUCTION INFORMATION SYSTEMS (5) A study of the special problems associated with the development of information systems capability to support the production function of an organization. Review of information systems approaches to inventory control and work processing management.

MAN 430 OPERATIONS PLANNING AND CONTROL (5) The application of modern statistical and mathematical techniques to the planning and control of management systems. Emphasis will be placed on applications in forecasting, inventory, production scheduling and control, equipment selection and replacement, maintenance and materials handling. Prerequisite: BUA 302 and senior standing.

MAN 451 INTERNATIONAL MANAGEMENT (5) Introductory survey in management issues that confront the multinational enterprise. At least one class session is devoted to each of the following topics: review of basic trade theory; tariffs and trade barriers; organizational transfer; foreign exchange; institutions affecting the multinational manager, such as IMF, IDB, Ex-In Bank, EEC, IBRD; international financial management; issues in multinational accounting; personnel management; comparative business customs and behavioral issues; export-import procedures; conflicts with national interests.

MAN 452 INTERNATIONAL MANPOWER MANAGEMENT (5) National, as well as international, monpower policies are examined. Current trends in international labor movements will be analyzed, particularly as they affect international labor mobility. Corporate policies in manpower planning are viewed in an environment of rapid economic and political changes.

MAN 453 ORGANIZATION THEORY (5) A comparative analysis of various theories of organization including the classical, biological, economic, and Cyert-March models and of their treatment of fundamental structure, conflict, communications, group and individual behavior and decision making. Primary emphasis on development an integrated philosophy of organization and management. Prerequisite: BUA 309 or Equivalent.

MAN 454 INDUSTRIAL RELATIONS (5) Organizational and economic analysis of the problems and issues arising out of legislative and judicial efforts to define the rights, duties and responsibilities of labor organizations and management in the fields of labor relations.

MAN 455 LABOR MANAGEMENT AND COLLECTIVE BARGAINING (5) The various options of 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 canciliation. The course deals also with the analysis of the labor market.

MAN 456 BEHAVIORAL SCIENCE IN MANAGEMENT (5) An analysis of selected cancepts in behavioral science, their interaction and application to management. Topics include perception, motivation, and group behavior.

MAN 457 PERSONNEL MANAGEMENT (5) Attention is facused an the theory and practice of modern personnel management as related to other management functions. Tapics include: selection, training job and performance evaluation, and incentive schemes. Special attention is devoted to human resources management and development at various arganizational levels.

MAN 458 SMALL BUSINESS MANAGEMENT (5) The arganization and aperation of the small business—the accounting, finance, production and marketing subsystems. The use of analytical approach. Problems of manpawer management and information flow. Passible use of EDP. Case Studies.

MAN 461 INTERGROUP RELATIONS IN ORGANIZATIONS (5) A study of the psychological and socialogical dimensions of intergraup relations. Attention to the problems experienced by subgroups in large and small arganizations with particular reference to ethnic, racial, and subcultural groups. The rales and responsibilities of management in the constructive resolution and utilization of inter-group conflict in arganizations.

MAN 462 DILEMMAS OF RESPONSIBILITY IN BUSINESS MANAGEMENT (5) The use of interdisciplinary concepts and tools to develop and understand the marol and ethical dilemmas involved in business and carparate spheres of activity. Specifically attended to are issues such as pollution, consumer affairs, and quality of public facilities.

MAN 463 PERSONNEL RECRUITMENT AND SELECTION (5) In-depth study of the personnel staffing function. Included an analysis of objectives, techniques, and pracedures for forecasting manpawer needs, recruiting candidates, and selecting emplayees.

MAN 464 WAGE AND SALARY ADMINISTRATION (5) Presents the theories and techniques used by management in the areas of work measurement, wage incentives and job evaluation.

MAN 493 INDEPENDENT STUDY (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

MAN 497 SPECIAL TOPICS (1-10) Students who wish an intensive study of particular topic or a limited number of tapics not otherwise affered in the curriculum. Cansent of faculty supervisor and division chairman required.

MAN/PAD 534 PUBLIC-PRIVATE COLLECTIVE BARGAINING (5) Examines the labor farce, labor markets, public manpower policy, and organizational manpower planning. Emphasis is given to recent developments in public and organizational policy.

MAN/PPS 541 HUMAN INTERACTION I: PERSONAL GROWTH LABORATORY (5) Experience designed to increase self-awareness of social impact, to increase sensitivity to the feelings of others, to improve interpersonal communication and increased understanding of the change-learning process. Study and analysis of class-group participation as well as other functional social groups.

MAN 550 INFORMATION SYSTEMS IN ORGANIZATIONS (5) Introduction to information systems and their rale in organizations from a user's viewpoint. Survey and application of the basic cancepts necessary far understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability. Enrollment limited to students in the MIS Certificate Pragram.

MAN 551 ANALYSIS OF INFORMATION REQUIREMENTS (5) An in-depth study of the problems of determining effective information needs for systems users. Consideration of the development of data element dictionary capability, pracedures for eliciting requirements and techniques for documenting requirement and report content. Enrollment limited to students in the MIS Certificate Program.

MAN 552 DESIGN OF INFORMATION SYSTEMS (5) An in-depth study of the problem of determining an efficient design to meet the requirements specified by the user. Consideration of the determination of alternative designs, selection of the "best" design and conversion of the design into programming specifications. Enrollment limited to students in the MIS Certificate Programs.

MAN 558 SEMINAR IN PERSONNEL MANAGEMENT (5) Overview and examination of the various aspects of the Personnel Management function. Course is only open to students enralled in the Personnel Management Certificate Program.

MAN 601 SURVEY OF MANAGEMENT SCIENCE (5) An introductory caurse that will examine model building and the methodology, techniques and tools of Management Science. A survey of the analytic models available will be included.

MAN 605 DETERMINISTIC MODELS FOR MANAGEMENT ANALYSIS (5) Applications of deterministic models such os linear and nonlinear programming, network analyses (PERT), dynamic programming, and branch and bound algorithms to monagerial problems of allocation, planning, scheduling, investment, and control.

MAN 606 STOCHASTIC MODELS FOR MANAGEMENT ANALYSIS (5) Applications of probabilistic models such as queuing, inventory, and renewal to their managerial problems.

MAN 611 STOCHASTIC MODELS FOR PROJECT MANAGEMENT (5) Review of deterministic models and principles, introduction to GERT, critical path methods, criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics and individual projects. Students will use the computer, and existing programs, to analyze/simulate hypothetical project networks and learn to interpret the results in order to facilitate operational decisions.

MAN 618 ORGANIZATIONAL INFORMATION SYSTEMS (5) Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 619 SEMINAR IN MANAGEMENT SCIENCE (5) New topics and new application areas will be explored. Lectures will relate the latest advances in the theory and application of Management Science.

MAN 620 SIMULATION OF MANAGEMENT SYSTEMS (5) Basic concepts of computer simulation of systems. Application of these concepts to a variety of managerial problems. Industrial dynamics, urban dynamics, and large system simulation Simulation in economic analysis. Heuristic methods, management games.

MAN 621 INFORMATION REQUIREMENTS ANALYSIS (5) An in-depth study of the problem of determining effective information needs for systems users. Consideration of the development of dato element dictionary capability, procedures for eliciting requirements, and techniques for documenting requirement and report content.

MAN 622 INFORMATION SYSTEMS DESIGN (5) An in-depth study of the problem of determining an efficient design to meet the requirement specified by the user. Consideration of the determination of alternative designs, selection of the "best" design and conversion of the design into programming specifications.

MAN 630 SYSTEMS ANALYSIS (5) 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 639 SEMINAR IN PRODUCTION CONTROL SYSTEMS (5) The design of control systems for production operations automation and its impact on organizations. Integrated operational — simulation approach. Group and individual projects.

MAN/PPS 641 HUMAN INTERACTION II: ORGANIZATIONAL CONSULTATION (5) Theories and approaches to organization development and change with a particular focus on public schools and organizations. Laboratory supervision on systematic consultation and action skills, including methods of assessment (survey feedback, milling, confrontation meetings, systems analysis), agenda-setting, feedbacks, coaching, third-party consultation for conflict management, and team training. Prerequisite: MAN 541.

MAN 642 ADVANCED PERSONNEL MANAGEMENT (5) 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 devoted to human resources management and development at various organizational levels.

MAN 643 PERSONNEL TRAINING AND DEVELOPMENT (5) Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity Management.

MAN 644 PERSONNEL SELECTION AND PLACEMENT (5) Individual differences and their measurement in personnel selection and job placement. Job design and redesign. The learning process. Counseling and career guidance.

MAN 645 WAGE AND SALARY ADMINISTRATION AND WORK MEASUREMENT An in-depth analysis of wage and salary administration including such topics as job evaluation, wage incentive systems, and work sampling.

MAN 650 LABOR RELATIONS (5) 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 given to the negotiation and administration of agreements.

MAN 651 GOVERNMENT AND INDUSTRIAL RELATIONS (5) Survey of industrial relations law with special emphasis on the current status of union-management relations law. Covers the scope and content of current legislation, selected tapics in applied labor relations law, and the role of the government.

MAN 652 COLLECTIVE BARGAINING TOPICS (5) An advanced course in labor relations for students with some background wishing more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations are treated at length.

MAN 653 INTERNATIONAL MANAGEMENT (5) Graduate seminar which focuses on management issues that confront 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 660 INTERPERSONAL BEHAVIOR AND ANALYSIS (5) A human interaction-human relations training laboratory designed to increase self-awareness and understanding of behavioral dynamics in groups, Course aims to enable students to broaden their conceptual understanding of human interpersonal communications and conflict. Enrollment is limited to fifteen students per section.

MAN 661 GROUP PROCESSES IN ORGANIZATIONS (5) The social psychological processes of organizational functioning. The roles played by small groups in organizational settings.

MAN 662 ORGANIZATION DEVELOPMENT AND RENEWAL (5) A study of approaches, pracesses, and technologies for effecting organizational change and improvement based on behavioral science principles and practices. Attention will also be given to behavioral science theory and interventions which tend to promote greater organizational health and renewal.

MAN 663 CONFLICT IN ORGANIZATIONS (5) A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models and approaches to utilizing and resolving conflict toward constructive personal and organization ends will be emphasized.

MAN 671 PROBLEMS IN COMPARATIVE MANAGEMENT (5) Discussion of literature; readings, cases, aimed at underscoring differences and similarities in management behavior in different countries and cultures. General instruction in obtaining and utilizing data on comparative management differences.

MAN 672 COMPARATIVE MANAGEMENT ANALYSIS (5) Development and testing of hypotheses concerning differences and similarities in managerial behavior in different countries and cultures; discussion of implications; case analysis.

MAN 690 RESEARCH METHODS IN MANAGEMENT (5) Covers the research methods and analytical techniques mast widely used in research in human resources and general management. Emphasis is on helping students to become aware of current techniques and their applications.

MAN 691 POLITICS IN ORGANIZATIONS (5) The objective of this course is to give the student experience in an executive role in contemporary organizations. The stress is on human interaction, decision-making under pressure, and organizational politics.

MAN 693 INDEPENDENT STUDY IN MANAGEMENT (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty sponsor and Division Chairman required.

MAN 694 MASTER'S SEMINAR IN MANAGEMENT (1-5) An exomination of recent research findings in selected areas of current concern. Emphasis is placed on readings, active discussion, and small shart-term action and research projects. Students may make a preliminary selection of the master's thesis or project topic.

MAN 695 MASTER'S PROJECT IN MANAGEMENT (1-10) Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic shall be chosen in consultation with a faculty member in the School.

MAN 697 SPECIAL TOPICS IN MANAGEMENT (5) Intensive study for groups of students of a particular topic ar a limited number of topics, not otherwise offered in the curriculum. Consent of faculty tutor and Division Chairman required.

MASTER OF BUSINESS ADMINISTRATION PROGRAM

MBA 605 FINANCIAL ACCOUNTING ANALYSIS (5) A survey of the principles and procedures of accounting. The caurse covers both financial and management accounting. The principal emphasis is on the potential uses, as well as limitations, of accounting information. No credit will be given to students who have had undergraduate or graduate equivolents.

MBA/ECO 606 MANAGERIAL ECONOMICS (5) The application of microeconomic and macroeconomic concepts to decision making within the organization; supply and demand; market structure and market behavior in specific industries; basic aggregate economic models and forecasting. Prerequisite: MBA 607 or equivalent.

MBA 607 QUANTITATIVE METHODS IN MANAGEMENT (5) Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations and the application of these tools to real-life problems. No credit will be given to students who have had undergraduate or graduate equivalents.

MBA 615 WORLD DYNAMICS AND THE ORGANIZATION (5) A mocro examination of ecanomic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications, societal forecasting and organizational responses to those changes, given the nature and rate of change in different societies.

MBA 616 THE ORGANIZATION AND THE INTRA-NATIONAL ENVIRONMENT (5) A comparative analysis of particular public and private organizations in specific cultures and their interaction with other institutions; particular attention to environmental and institutional constraints on the organization, especially the contrasting of the goals of the organization with more of the society.

MBA 617 ORGANIZATIONAL ANALYSIS (5) Study of concepts, theory, research, and operational problems of management. Emphasis is upon analyzing the management processes of planning, organizing, leading, and controlling and their relationship to the nature of the task, technology and the environment.

MBA 625 MANAGERIAL DECISION-MAKING (5) This course will investigate and analyze the decision problems that managers face in business, valunteer organizations, government, and the public sector. Emphasis in the course will be placed an providing a variety of decision-making experiences for the student. Prerequisite: MBA 607 ar equivalent.

MBA 626 ORGANIZATION INFORMATION SYSTEMS (5) Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary far understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MBA 627 ACCOUNTING FOR DECISION MAKING (5) A survey of the various uses of accounting information both from the point of view of the monagement and the investor. The course covers advanced topics in financial accounting, and the techniques utilized in financial analysis. It also emphasized the differences among alternative accounting principles and their effects on decision-making. Prerequisite: MBA 605 or equivalent.

MBA 635 FINANCIAL MANAGEMENT (5) 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: MBA 605 or equivalent.

MBA 636 MARKETING MANAGEMENT (5) A study of analysis and application of theory and problem solving in morketing management. Emphasis will be on the role of marketing in the arganization, planning the marketing effort, management of the marketing organization, control of marketing operations and evaluation of the marketing contribution.

MBA 637 OPERATIONS MANAGEMENT (5) This course covers the analysis of design and aperations 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, such as hospitals, governmental agencies, service organizations, and industrial concerns. Prerequisites: MBA 607 or equivalent.

MBA 699 POLICY ANALYSIS (5) 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. Prerequisite: Should be taken in the last quarter of Master's Program.

MARKETING

MAR 404 MARKETING MANAGEMENT (5) An analytic approach to the performance of marketing management. The elements of the marketing mix as the facus of decision making in marketing are studied and the case method of instruction is employed.

MAR 405 RETAILING MANAGEMENT (5) An examination of the role of retailing in the marketing system. The course delineates the decisions made by retailing management and reviews the available strategies.

MAR 408 INTERNATIONAL MARKETING (5) The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment.

MAR 410 INTRODUCTION TO CONSUMER BEHAVIOR (5) The course offers an introduction to the analysis of the consumer as the basis for the development of the marketing mix.

MAR 411 INTRODUCTION TO MARKETING RESEARCH (5) An examination of the marketing research process and its role in oiding decision making. Emphasis is placed on evaluation and utilization of research information in making marketing decisions.

MAR 415 PROMOTIONAL STRATEGY (5) The course deals with problems of decision making in the areas of marketing communication methods, with primary emphasis on odvertising.

MAR 416 PERSONAL SELLING (5) The development of effective solesmen/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 417 MARKETING CHANNELS (5) The course focuses upon institutions, functions, and flows within channels af distribution and their integration into channels systems. Wholesaling and physical distribution activity are emphasized.

MAR 418 EXPORT MARKETING (5) This course emphasizes practical approaches to export marketing including marketing strategies by individual firms to serve foreign markets. Operational methods of identifying, establishing, and consolidating export markets with particular attention to the needs of smaller business.

MAR 419 PRINCIPLES OF TRANSPORTATION LOGISTICS (5) (Same Course as TRA 409) Consideration of transportation logistics and its relationship to production and distribution; characteristics, management, legislation, and public regulation, applied to modes af transportation.

MAR 423 INDUSTRIAL MARKETING (5) Marketing in the intermediate consumer environment. Problems met it, and strategies for, marketing goods and services to commercial, industrial, and governmental markets.

MAR 429 REAL ESTATE MARKETING (5) (Same Course as RES 513) The course facuses upon application of marketing concepts and tools within the real estate industry.

MAR 431 MARKETING AND THE LAW (5) A policy and operational analysis of legislotive acts and judicial interpretations of laws influencing organizations engaged in marketing activities.

MAR 433 CURRENT ISSUES IN MARKETING I (5) Intensive study of various topic oreas in marketing. Course emphasizes student reading and research with aral and written reports. Students electing to take this seminar may take no mare than 5 credit hours of independent study in marketing.

MAR 434 CURRENT ISSUES IN MARKETING II (5) Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 433.

MAR 441 MARKETING OF SMALL BUSINESS ENTERPRISES (5) 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 451 MARKETING FOR NON-PROFIT ORGANIZATIONS (5) Marketing techniques as applied to non-profit organizations, including but not limited to, the marketing of such governmental programs as housing, education, health services, transportation, and Social Security.

MAR 490 MARKETING GAME COMPETITION (5) Focal point of the course is a computerized marketing management simulation. The course provides an apportunity for the student to participate as a member of the marketing management team of a firm in competition with other firms.

MAR 493 INDEPENDENT STUDY IN MARKETING (1-10) Individual conferences, supervised reading, reparts an personal investigations. Consent of faculty tutar and divisional chairman required.

MAR 494 MARKETING INTERNSHIP (1-10) Full-time supervised wark in a selected arganization. Prerequisites: At least twenty (20) haurs in marketing, consent of instructor and divisional chairman.

MAR 497 SPECIAL TOPICS IN MARKETING (1-10) Intensive study far groups of students of a porticular topic or a limited number of topics, nat atherwise offered in the curriculum. Consent of faculty supervisor and divisional chairmon required.

MAR 506 INTERNATIONAL MARKETING II (5) The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment.

MAR 593 INDEPENDENT STUDY IN MARKETING (1-10) Individual conferences, supervised readings, reports on personal investigations. Cansent of faculty tutar and Divisional Chairman required.

MAR 597 SPECIAL TOPICS IN MARKETING (1-10) Intensive study far groups of students of a particular tapic or a limited number of tapics, not otherwise affered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

MAR 610 CONSUMER BEHAVIOR (5) Modern camprehensive models of consumer behavior are utilized as a framework for understanding consumer decision processes.

MAR 611 INTERNATIONAL MARKETING III (5) This course discusses the nature and scope of international marketing and explores multinational problems facing firms and other international marketing organizations, tagether with strategies for foreign market penetration.

MAR 612 MARKETING RESEARCH (5) The rale of research in providing information for marketing decision making including an examination of the research process and the tools available to the researcher.

MAR 613 QUANTITATIVE METHODS IN MARKETING (5) A study of the quantitative reasoning process and its usefulness for marketing decision making. Each of the major decision areas in marketing is examined using existing quantitative madels as aids to understanding marketing processes.

MAR 615 PROMOTIONAL STRATEGY (5) The caurse focuses an planning, problem-solving and decisionmaking as they apply to pramation pragrams. Primary emphasis is an advertising with discussion of the role of promotion in relation to ather elements of the marketing pragram.

MAR 633 CURRENT ISSUES IN MARKETING I (5) Intensive study of various topic areas in marketing. Caurse emphosizes student reading and research with aral and written reports. Students electing to take this seminar may take no mare than 5 credit haurs of independent study in marketing.

MAR 634 CURRENT ISSUES IN MARKETING II (5) Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 633.

MAR 690 ADVANCED MARKETING MANAGEMENT (5) Emphasis in the course is upon application and integration of concepts and taols through participation in the marketing management of a firm in competition with other firms. The caurse's facal point is a computerized marketing management simulation.

MAR 693 INDEPENDENT STUDY IN MARKETING (1-10) Individual conferences, supervised reading, reports an personal investigations. Consent of faculty tutor and Divisional Chairman required.

MAR 695 MASTER'S PROJECT (5) 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 lost half of the student's graduate program.

MAR 697 SPECIAL TOPICS IN MARKETING (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

PUBLIC ADMINISTRATION

PAD 301 FINANCING PUBLIC ORGANIZATIONS (5) Financial management in public organizations. The securing of funds through taxes and bond issues, the management of funds and expenditure decisions.

PAD 305 ADMINISTRATIVE STATISTICS AND DATA SYSTEMS (5) Quantitative techniques useful to public administration, non-parametric techniques, probability concepts and decision techniques are presented as well as concepts underlying use of data systems.

PAD 310 ORGANIZATIONAL GROUP PROCESSES (5) The impact of vorious organizational climates, tasks, roles and reward systems on the behavior of both the individuals and groups of employees in public organizations. Particular attention to alienation and motivation in job effectiveness and Public Service.

PAD 312 PUBLIC POLICY AND ITS ADMINISTRATION (5) Contemporary theories of policy analysis; the role of social, political, and cultural theories as they apply to the analysis and administration of public policies.

PAD 320 PERSONAL GROWTH AND ADMINISTRATIVE DEVELOPMENT (5) The administrator as a person development of interpersonal skills. Self evaluation and coreer planning, training and education for the public service sector.

PAD 321 ADMINISTRATORS AND THE LEGISLATIVE PROCESS (5) A study of executive-legislative interactions; the impact of legislation and legislative processes on administrative policy decision-making and implementation; influence of administration on the legislating process.

PAD 325 INTERNATIONAL COMPARATIVE ADMINISTRATION (5) This course is conceived as introductory to a wide range of scholarly and practical ("applied") interests. Emphasis on institution building and development administration particularly within the third world countries.

PAD 400 CONCEPTS AND ISSUES IN PUBLIC ADMINISTRATION (5) The function of Administrative Institutions in Society; the growth of administration through the bureaucratic model both as an art and science; contemporary and comparative forms and theories of organization and responsibilities of public servants.

PAD 401 ADMINISTRATIVE INTERACTION IN THE PUBLIC SECTOR (5) Definition and analysis of administrative interfaces with multiple and varied public and private organizations. A study of the role expectation, pressures, and opportunities of the administrator in a complex environment.

PAD 402 POLITICS OF ADMINISTRATIVE ORGANIZATION (5) The role of political processes in relationship to public organizations and the types of intro- 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 403 PUBLIC PERSONNEL ADMINISTRATION (5) The general nature of public personnel administration, the development of the civil service system, concepts and issues currently applicable at the Federal, State and Local levels of government.

PAD 404 ORGANIZATION AND ADMINISTRATIVE THEORY (5) History and development. Historical survey of theories of public organization and of contemporary and emerging theories. With special attention to the role of bureaucratic theory. Case investigation of manifested influence of the bureaucratic model in its various forms at Federal, State and local government levels.

PAD 405 GOVERNMENT AND ADMINISTRATION OF METROPOLITAN AREAS (5) An intensive analysis of administrative problems created by large complex urban areas comprising many political entities. Examines overlapping relationships within municipalities, experience in Dade County system, current trends, and suggested solutions.

PAD 406 ADMINISTRATIVE LAW (5) Surveys the principles of low from the perspective of the public administrator: Administrative procedure, procedural due process, delegation of legislative power, regulatory administration, conflict-of-interest statutes, etc.

PAD 407 ADMINISTRATIVE LEADERSHIP AND BEHAVIOR (5) 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 climate of the situation.

PAD 408 PUBLIC CHOICE (5) Some historical analysis on the origin and cancept of the public interest in Public Administration. Its various formulations as a concept and its contemporary interpretations. Specific role definitions and concepts of the public interest and public policy.

PAD 409 ADMINISTRATION OF PERSONNEL RESOURCES (5) Problems of training in government service and management of human resources development, the concept of civil service coreer systems, evaluation of public personnel systems, human relations in supervision, and personnel theory are examined.

PAD 410 PUBLIC VALUES, ETHICS AND MORALITY IN CHANGING ENVIRONMENT (5) Theories of value; ethical systems and their influence of administration behavior and process; the administrator as an ethical actor; value conflict and resolution; philosophical bases of American thought.

PAD 428 BUDGETS AND THE ADMINISTRATIVE PROCESS (5) The theory and practice of various approaches to budgeting e.g. time-item, performance, program and PPBS budgeting. Special emphasis upon the role of the budget in shaping the performance and policy direction of public organizations.

PAD 520 VALUES AND TECHNOLOGY IN MODERN SOCIETY (5) Surveys personal and societal value assumptions in the context of the technological society. Examines organizational-societal value structures and how technology creates rapid change, and new values which ore alternatives to our existing values. Also interrelationship of the past, present and future are explored through futurism and forecasting techniques.

PAD 523 THE AMERICAN MILITARY ESTABLISHMENT (5) Traces the rise of the American military to its present position, assesses its current size, scope and cost and analyzes the various relationships it has with other parts of government, with key segments outside of government and with the country at large. Throughout, emphasis is placed on examining how a massively large, complex bureaucracy functions in the contemporary American socio-political environment.

PAD 561 COLLECTIVE BARGAINING IN THE PUBLIC SECTOR (5) The course deals with the nature and implications of collective bargaining for managers and employees in and students of public organizations. The course emphasizes similarities and differences between the private and public sectors as they apply to collective bargaining.

PAD 562 ADMINISTRATOR AND THE ROLE OF WOMEN (5) 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 offirmative action programs: how they are designed, implemented, and evaluated.

PAD 564 THE PUBLIC ADMINISTRATOR AND MEDIA RELATIONS (5) Surveys the government-mass communication media relationship and then concentrates on how public managers handle media relations. Emphosis throughout is placed on questions of information handling unique to public organizations, involving, for example, odherence to Florida's Sunshine Law and the Federal Freedom of Information Act.

PAD 600 POLITICAL, SOCIAL AND ECONOMIC CONTEXT OF PUBLIC ADMINISTRATION (5) Examines the context in which public organizations operate, stressing 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 601 ORGANIZATION THEORY AND ADMINISTRATIVE BEHAVIOR (5) 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 602 PUBLIC FINANCE AND THE BUDGETARY PROCESS (5) Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, monagement 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 institutional aspects of the budget and the budgetary process, and problems and trends in intergovernmental financial relations.

PAD 603 RESEARCH METHODS IN COMPLEX PUBLIC ORGANIZATIONS (5) Theories and concepts of research and evaluation. Specific focus given to action components of the research process, design and formulation, strategies and methodological tools for conducting research. What is the role of research in administrative decisions and in testing ways to implement public policy? A review of contemporary critiques on research design.

PAD 604 PUBLIC POLICY (5) 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 extraorationality, study of policy environments, and policy roles of proactive public administration, are examined.

PAD 610 DEVELOPMENT ADMINISTRATION (5) The role of public administration in notional 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 important means for ochieving developmental goals in selected countries.

PAD 611 INTERNATIONAL PUBLIC ADMINISTRATION (5) The role of Public Administration Systems around the world and the impact of political and socio-cultural frameworks on administration. Focus on notional and state organized politics and economics; problems or possibilities. A review of scope and programs of contemporary international public administration organizations.

PAD 621 PUBLIC INTEREST AND THE PUBLIC TRUST (5) Will analyze the meaning of the public interest, using both experimental and cognitive tools. The purpose is to allow individuals in the course to clarify their current definitions of the concept and to be exposed to alternative points of view. The course is intended for everyone in the public sector and all those who have the term "public" in their repertaire of justifications.

PAD 622 DEMOCRACY AND THE ADMINISTRATIVE STATE (5) Juxtoposes 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 onalyzed and their implications for public organizations and individual administrators examined.

PAD 630/MBA 607 QUANTITATIVE METHODS AND COMPUTER SKILLS (5) Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations and the application of these tools to real-life problems. No credit will be given to students who have had undergraduate or graduate equivalents.

PAD 631/MBA 626 MANAGEMENT INFORMATION SYSTEMS (5) Introduction to the application of computers to information processing problems in organizations. This includes a survey of the basic computer hardware and software concepts necessory 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 monagerial aspects of information systems planning and development.

PAD 632 DECISION-MAKING THEORY AND PRACTICE (5) Historically, there have been two distincy approaches to the study of decision making, one based more on behavioral aspects, the other on quantitative aspects. Neither ought to exist without the other and they should be viewed as being complementary, even though in certain situations one approach may seem more promising than the other. This course is designed to enable the student to use the techniques of both approaches which have been developed in recent years. MBA 625 may be substituted.

PAD 633 PUBLIC POLICY ANALYSIS AND EVALUATION (5) A framework for evaluating public policy-making will be presented. The emphasis will be upon criteria and methodologies available for choosing among alternative courses of action. The systems opproach, alternative futures and nth-order consequences or policies will be analyzed.

PAD 640 PUBLIC PERSONNEL ADMINISTRATION (5) This course focuses on the fundamentals of public personnel administration in general and specific issues of the civil service. Some of the specific issues which will be considered are: the merit system and civil service history and development; monpower 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 of personnel administration.

PAD 641 DYNAMICS OF INDIVIDUAL GROWTH (5) This course focuses on the importance of small group theory to the personal growth of the administrator and the role of interpersonal abilities in more effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student and with a look at existential theory and the dilemma of personal growth.

PAD 643 ORGANIZATIONAL DEVELOPMENT AND CHANGE (5) Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences. Personal and executive development programs, team building, action research, etc. Survey of research on the effects of organization development programs with special reference to public organizations.

PAD 650 REGIONAL AND STATE GOVERNMENT ADMINISTRATION (5) Surveys the historical development of regional administration, analyzes present administrative problems of the states and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments and their implications for public policy-making.

PAD 651 URBAN AND MUNICIPAL GOVERNMENT ADMINISTRATION (5) Detailed examination of problems facing the municipal administrators, of the pressures upon the contemporary urban environment and of the administration of large metropolitan areas comprised of numerous political entities. Emphasis will be on determining current trends, discussion of cases and suggested solutions.

PAD 660 ADMINISTRATIVE LAW AND PROCEDURES (5) Emphasizes the responsibilities public administrators have under local, state and federal laws. Explores such concepts as client responsiveness under the law, the regulatory process, state administrative law systems, the executive order process, the relationship between administrative low and the checks-and-balance system, discretionary justice and others.

PAD 663 GOVERNMENT AND MINORITY GROUP RELATIONS (5) Explores the pressing contemporary issues of the relotionship between government and minorities. It examines the clash between established institutional values and minority group values, 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 690 INDEPENDENT STUDY IN PUBLIC ADMINISTRATION (1-10) Individual conferences, supervised readings, reports on personal investigations and similar undertakings. Consent of faculty sponsor and Program Chairman required.

PAD 691 INDEPENDENT RESEARCH IN PUBLIC ADMINISTRATION (1-10) An individualized research project and report which, if feasible, should include field work with a public organization. Permission of a faculty advisor is required before registering for the course which should be taken during the lost half of the student's graduate program.

PAD 692 PUBLIC ADMINISTRATION INTERNSHIP (1-10) Supervised wark in a public or quasi-public arganization. Shauld not be undertaken until completion of required courses in Public Administration Program. Consent of faculty advisor and Pragram Chairmon required.

REAL ESTATE AND REGIONAL DEVELOPMENT

RES 390 INTRODUCTION TO REAL ESTATE (5) Decision making processes for development, financing, marketing, and management of real estate space; economics of regional development and urbanization; public policy issues concerning urban environment and the real estate business. Prerequisite to all other courses in real estate and regional development.

RES 391 LEGAL ENVIRONMENT OF REAL ESTATE (5) Legal environment of real praperty awnership, transfer and brakerage; estates in land; sales contracts; mortgage transactions; title; canveyances; landlard and tenant; restrictions and zoning, eminent domain. Prerequisite: RES 390 or permission of instructor.

RES 493 INDEPENDENT STUDY IN REAL ESTATE (1-10) Individual conferences, supervised readings, reports an personal investigations. Cansent of faculty tutar and divisional chairman required.

RES 497 SPECIAL TOPICS IN REAL ESTATE (1-10) Intensive study for groups of students of a particular tapic or a limited number of tapics, not otherwise affered in the curriculum. Consent of faculty supervisor and divisional chairman required.

RES 500 REAL ESTATE FINANCE (5) Financial analysis and structuring af real estate projects; traditional and creative concepts and mechanisms far the construction financing and permanent financing of residential and incame producing property. Prerequisite: RES 390 or permission of instructor.

RES 503 REGIONAL DEVELOPMENT (5) Measurement and forecasting of economic activity in an urban/regional context; factors influencing economic growth and land allocation. Prerequisite: RES 390 or permission of instructor.

RES 505 URBAN LAND PLANNING AND USE (5) Theories of city growth and structure; operations of the real estate market in land allocation; application of above concepts to current practices in city and regional planning. Prerequisite: RES 390 or permission of instructor.

RES 507 VALUATION OF REAL ESTATE (5) Valuation and approisal framework applied to residential and income producing praperty; role of computers; valuation theory and process as a guide to business decisions. Prerequisite: RES 390 or permission of instructor.

RES 509 REAL ESTATE INVESTMENT (5) Fundamentals of acquisition, ownership, and disposition of investment property; taxation and tax shelter; cash flow projections; analysis of specific types of investment property, utilization of computers as a decision-making tool. Prerequisites: RES 390 or permission of instructor.

RES 511 URBAN LAND ACQUISITION AND DEVELOPMENT (5) Real estate development: acquisition of raw land; zaning, subdivisian into sites; pravision of utilities and services; financing; merchandising of improved sites; emphasis on design and development of residential communities. Prerequisite: RES 390 or permission of instructor.

RES 513 REAL ESTATE MANAGEMENT (5) Organization and operation of a real estate brokerage affice, including selection, training and financing of sales personnel; obtaining and controlling listings; process and methods invalved in the selling of real estate; promotion activities, including advertising and public relations; grawth problems; professionalism; ethics. Prerequisite: RES 390 or permission of instructor.

RES 515 REAL ESTATE MANAGEMENT (5) Theories and techniques of professional management of real estate; creating a management plan; merchandising space; ecanamics of alternates; market analysis; the maintenance process; awner-tenant-manager relations; aperating budgets tax consideration; ethics. Prerequisite: RES 390 or permission of instructor.

RES 592 REAL ESTATE AND REGIONAL DEVELOPMENT POLICY (5) A capstane course in integrating all aspects of real estate and regional development learned in previous courses; projects, cases and field trips; to be taken in senior year. Prerequisite: Permission of instructor.

RES 670 INCOME PROPERTY APPRAISAL (5) Valuation and appraisal framework applied to income praperties; capitalization; rates and techniques; discounting and compaund interest; mortgage-equity analysis; Ellwood analysis; rale of computers; valuation as a guide to business decisions.

RES 671 INDUSTRIAL REAL ESTATE I (5) General overview of industrial real estate focusing on types of activities; locational requirements; financing techniques; brakerage; government influence; current trends; technological change; characteristics of industrial buildings.

RES 672 INDUSTRIAL REAL ESTATE II (5) Introduction to investment and valuation problems in industrial real estate; topics include taxation and investment analysis; discounted cash flow techniques; appraisal framewark applied to income properties; camputer will be utilized in appraaching the above problems.

RES 674 INDUSTRIAL BROKERAGE (5) Distinctions between industrial brokerage and general real estate brokerage; role and functions of the industrial broker; industrial brokerage practice; negotiating and leasing; regulations and ethics.

RES 675 SEMINAR IN INTERNATIONAL REAL ESTATE (5) Current trends and issues affecting industrial real estate on an international level; topics include the multi-national corporation and its location decisions; foreign taxation; international trade and exchange rates.

RES 685 SEMINAR IN REAL ESTATE FINANCE (5) A study of financial institutions, their methods, and interregional flows of funds in mortgage markets. Further emphasis placed on national economic policies affecting mortgage markets. Prerequisite: Graduate standing and permission of instructor.

RES 686 SEMINAR IN REAL ESTATE VALUATION THEORY & PRACTICE (5) A study of the process of property valuation utilizing cost, market and income approaches. The role of computers and mass appraisal techniques will also be examined. Prerequisites: Graduate standing and permission of instructor.

RES 687 REGIONAL PLANNING AND DEVELOPMENT (5) Methods of measuring and forecasting economic activity and issues in allocating urban land. Techniques for analysis of government policies affecting urban growth and development. Prerequisite: Graduate standing and permission of instructor.

RES 688 SEMINAR IN URBAN HOUSING POLICY & PROBLEMS (5) Examining national housing policies and their formulation. The role of the public and private sectors in regard to housing problems. Effectiveness of housing policies. Prerequisites: RES 687 and permission of instructor.

RES 689 SEMINAR IN REAL ESTATE INVESTMENT AND TAXATION (5) The techniques of real estate investment analysis utilizing present value and cash flaw approaches. The impact of Federal taxation on real estate investment decision. Prerequisite: Graduate standing and permission of instructor.

RES 693 INDEPENDENT STUDY IN REAL ESTATE (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

RES 695 INDUSTRY PROJECT (5) Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by Real Estate faculty. Prerequisites: Permission of adviser.

RES 697 SPECIAL TOPICS IN REAL ESTATE (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

TRANSPORTATION MANAGEMENT

TRA 405 TRANSPORTATION SYSTEMS AND SERVICES (5) Survey and analysis of transportation modes including rail, motor, air, water, pipeline, and mass transit and their impact on the social and ecanomic systems; current problems.

TRA 406 MASS TRANSPORTATION AND URBAN PROBLEMS (5) Urban and metropolitan transportation development and requirements; benefits and costs of alternative approaches to mass transit; management techniques and operating principles; policy and regulation.

TRA 409 PRINCIPLES OF TRANSPORTATION LOGISTICS (5) Consideration of transportation logistics and its relationship to production and distribution; characteristics, management, legislation, and public regulation, applied to modes of transportation.

TRA 410 TRANSPORTATION RATE MAKING (5) Description and analysis of rate making for both passenger and cargo in the various modes of transportation including trucks, railroad, airlines, and ocean transportation. Classes may concentrate on one particular mode for practical applications.

TRA 441 AIR TRANSPORTATION (5) A comprehensive introduction to the total air transportation environment including basic areas in general economic characteristics; 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 442 AIRPORT MANAGEMENT (5) Application of management principles to airport operation with emphasis on unique characteristics of airport finance; government relations and regulations; airline relations and interdependence.

TRA 443 AIRCARRIER MANAGEMENT (5) 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 492 TRANSPORTATION POLICY (5) Consideration of national transportation policy; principal policy issues currently facing the transportation modes.

TRA 493 INDEPENDENT STUDY IN TRANSPORTATION (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

TRA 495 TRANSPORTATION INTERNSHIP (1-10) Full time supervised work in a selected organization. Prerequisites: At least twenty (20) hours in Transportation, consent of instructor and divisional chairman. TRA 497 SPECIAL TOPICS IN TRANSPORTATION (1-10) Intensive study for groups of students af a particular tapic or a limited number of tapics, not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

TRA 501 PUBLIC UTILITY PRINCIPLES (5) An analytical and descriptive survey course treating the historical development of public utilities; the economics, legal environment, and organization of public utilities is discussed and analyzed; regulation theory as it applies to electric, gas, water, and communications industries.

TRA 507 TRANSPORTATION OPERATIONS AND CARRIER MANAGEMENT (5) Cantemporary management techniques as applied to carriers; emphasis on management problems peculiar to transportation firms; economic analysis of marketing problems, capital formation, costs, pricing, labar relations, and government regulation.

TRA 508 TRANSPORTATION REGULATION AND POLICY (5) Economic and constitutional bosis of transport regulation; regulation; of industrial traffic and transport modes; scope of regulation; structure and policies of Federal and State regulatory agencies.

TRA 509 PHYSICAL DISTRIBUTION MANAGEMENT (5) Distribution in overall company operations; organization of the traffic function; determination of classification and rates; integration of transportation with production flow, inventory management, warehousing, marketing policies, and plant location.

TRA 510 TRANSPORTATION RATE MAKING (5) Description and analysis of rate making for both passenger and cargo in the various modes of transportation including trucks, railroad, airlines, and acean transportation. Classes may cancentrate on one particular mode for practical applications.

TRA 515 TRANSPORTATION LOGISTICS (5) Quantitative methods applied to solving problems in business lagistics; mathematical and statistical models; aptionization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility lacations.

TRA 600 GRADUATE SURVEY OF TRANSPORTATION MANAGEMENT (5) Graduate survey of transportation, its elements, and their impact on saciety. History, economics, and regulatory principles. Current policies and problems for all the major transportation modes.

TRA 693 INDEPENDENT STUDY IN TRANSPORTATION (1-10) Individual conferences, supervised readings, reparts on personal investigations. Consent of faculty tutar and Divisional Chairman required.

TRA 697 SPECIAL TOPICS IN TRANSPORTATION (1-10) Intensive study for groups of students of a particular topic or a limited number of tapics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

URBAN AND REGIONAL AFFAIRS

URB 401 THE URBAN SCENE (5) Introductory caurse to the urban phenomenon; historical and contemparary cansideration of cities; functions and purposes of cities; economic, social, and cultural aspects of urbanization.

URB 405 PLANNING & MANAGEMENT IN AN URBAN ENVIRONMENT (5) General examination of selected aspects af the urban environment that are becaming cancerns for policy makers; topics covered include growth and development of urban and metrapolitan areas, housing and transportation, the inner city, poverty and racial problems, and urban finance and politics. The purpose is to sharpen canceptions of how business is involved in the urban scene, and what steps it can make to ameliorate it.

URB 415 URBAN AND REGIONAL ANALYSIS (5) Theories of urban and regional growth; ecanomics of location and agglomeration; urban and regional social accounting, economic base analysis, input-output models, gravity models, and linear-programming. Urban structure and performance.

URB 416 URBAN PROBLEMS AND POLICIES (5) Consideration of the scope of the urban agenda; selected problems of contemporary cities; use af benefit-cost analysis, program planning and evaluatian, non-market decision making, user charges, and externalities in an urban environment; interrelation of private and public sectors in managing aspects of the urban system; role and contributions of planners and other professionals.

URB 493 INDEPENDENT STUDY IN URBAN AND REGIONAL AFFAIRS (1-10) Individual conferences, supervised readings, reports an personal investigations. Cansent of faculty tutar and Divisional Chairman required.

URB 497 SPECIAL TOPICS IN URBAN & REGIONAL AFFAIRS (1-10) Intensive study for groups of students of a particular tapic or a limited number of topics, nat otherwise offered in the curriculum. Consent of faculty supervisar and Divisional Chairman required.

URB 503 COMPARATIVE URBAN SYSTEMS (5) Comparative analysis of the major characteristics, similarities, and differences of the urban pracess as manifested in the United States and abroad.

URB/UPT 505 URBAN DESIGN (5) Relationship of cities and space; design for urban living; architectural and other aesthetic cansiderations; human welfare and urban structure; planning methods in the private and public sectors; performance evaluation.

URB 510 URBAN GEOGRAPHY (5) Geographical approach to city systems; consideration of the contribution of geographers to urban analysis; field praject.

URB/UPT 511 URBAN LAND USE PLANNING (5) Elements of the general land use plan; location and space requirements; the use of models in planning; development of the land use plan; policy plan; implementation.

URB 535 URBAN DEMOGRAPHY (5) Detailed analysis of demographic methods applied to the urban environment.

URB 585 FACULTY-STUDENT WORKSHOP IN URBAN STUDIES (5) Urban studies workshop that gives faculty and students an opportunity to present reports on their current research and listen to invited researchers in urban affairs.

URB 600 SURVEY OF URBAN AFFAIRS (5) Graduate level survey course, encompassing the dynamics of the urban environment, including urban form and structure, land use patterns, housing, transportation, education, poverty and race, and other policy and problem considerations. Implications of management decisions.

URB 693 INDEPENDENT STUDY IN URBAN AND REGIONAL AFFAIRS (1-10) Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

URB 697 SPECIAL TOPICS IN URBAN AND REGIONAL AFFAIRS (1-10) Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman.

SCHOOL OF EDUCATION

The School of Education offers both Bachelors and Masters degree programs that meet requirements for certification to be employed as a teacher, counselor, school psychologist, supervisor, or principal in Florida schools.

All degree programs of the School make every effort to recognize the urban and multi-cultural context in which schools in South Florida operate, and the commitment of the University to international understanding. The School also provides service to area schools and other educational agencies in South Florida on a variety of programmatic and operational matters with which they must deal. Research and development activities are carried out by the faculty to improve the effectiveness of both the School's personnel development and service missions.

The School of Education has six divisions, each responsible for specific Bachelors and Masters programs leading to those degrees and appropriate professional certification. Detailed information on each of the programs of the Divisions is given below.

The School of Education maintains an Office of Student Information and Advisement (D.M. 398). The prospective student is invited to direct inquiries there for general information on careers in Education and on the program in which he or she is interested.

GENERAL PROGRAM DESIGNS

UNDERGRADUATE

Undergraduate courses offered by the School of Education are designed to be performance- or competency-based. Typically, all courses include a requirement to spend time in schools as well as class time on compus.

The typical undergraduate student will complete 90 quarter hours in study at Florida International, and all are expected to complete the last 45 hours of their undergraduate study at Florida International University. Twenty quarter hours taken as a Special Student at the University may be applied to a Bachelors degree program if the work is applicable to the student's major.

Foundations of Education Requirement: Teacher certification regulations in Florida require completion of one course each in the social and psychological foundations of education. Courses that meet this requirement are offered in the Community College, and the student is urged to complete those courses before enrolling at Florida International. Otherwise, courses in the two areas must be completed at the University and should be taken in the first quarter of registration. The following courses offered at the University meet this requirement:

Psychological Foundations
PSY 307 Human Growth and Development (5)
or
PSY 305 Introductory Educational Psychology (5)

Social Foundations
SOC 343 School and Society (5)
or
PHI 326 Philosophies of Education (5)
or
HIS 475 Education in History (5)

Reading Competencies Requirement: A new educational regulation in Florida requires that all persons applying for initial teacher certification show evidence of having been prepared in specific skills for teaching Reading. All programs in the School are designed to meet this requirement, and the student's advisor will develop his or her program of study accordingly.

Professional Education Core: Every teacher education student, no matter his or her area of specialization, must enroll in three common courses during the Junior year. This common "core" consists of the following:

EDU 305 Schooling in America (5)
EDU 311 General Teaching Lob I: Technical Skills (5)
EDU 312 General Teaching Lob II: Human Relation Skills (5)

Subsequent Special Teaching Laboratories and Courses build on these core courses to extend and refine understandings and skills. All programs include one full quarter of student teaching.

Bachelors programs typically require course work in the College of Arts and Sciences or one of the other Schools. These courses provide necessary subject matter preparation to go along with professional preparation.

A student graduates with a Bachelor of Science degree and is qualified for a Rank III graduate teacher certificate in a field of specialization.

Professional education courses beyond the core and offered as a part of undergraduate teacher certification programs are open only to a student who has been admitted to a teacher preparation program. Other students may be admitted by permission of the course instructor only.

GRADUATE

Graduate courses offered by the School are also designed to be performance- or competencybased. Graduate programs are typically designed to require some course work in Education, some in the College of Arts and Sciences or one of the other Schools, and electives in any academic unit.

The specifics of any Masters degree program are developed between the student and his or her advisor to reflect individual student interests within the context of professional certification requirements. A typical program will include courses, seminars, and appropriate field experiences.

The typical graduate student will complete 45 quarter hours at Florida International to earn a *Master of Science* in Education degree. The programs in Counselor Education and School Psychology require 90 quarter hours. As a general rule, a student may transfer 10 quarter hours taken at another accredited college or university toward a 45-quarter hour Masters degree and 15 toward a 90-quarter hour program at Florida International. Also, 15 quarter hours of work taken as a Special Student at Florida International may be applied to a Masters program if applicable to the student's major.

ADMISSION

UNDERGRADUATE

The School will accept as an undergraduate any person who holds an Associate of Arts degree, or its equivalent, and will provide that student with a program leading to the bachelor degree and teacher certification. An entering student is not required to have been enrolled in a pre-teaching program. A student having an Associate of Science degree will also be accepted by the School and will receive assistance in developing a program of studies as required for the bachelor degree sought.

GRADUATE

A student applying for admission to graduate study must meet the criteria used in The State University System of Florida. Presently these are either a 3.0 or "B" average in the upper division or a combined score of 1,000 on the Graduate Record Examination (verbal and quantitative aptitude sections). Further, any given Master of Science degree program may have admission stipulations that go beyond these criteria to include such things as prior professional training and/or experience.

The student should carefully check this catalog and consult with the Division office in the School that is responsible for the academic major in which he or she is interested before applying for graduate admission to the University to be sure that all admissions criteria are known.

DIVISION OF GENERAL PROFESSIONAL EDUCATION AND EDUCATIONAL ADMINISTRATION

The Division offers Masters programs in Administration and Supervision and the undergroduate "core" courses required for every teacher education student.

UNDERGRADUATE COURSES

The Division offers the three "core" courses required for every teacher education student: EDU 305, EDU 311, and EDU 312.

GRADUATE PROGRAMS

The Division offers Masters programs in Administration and Supervision (Elementary, Secondary, or General). Typical programs of study in these areas are outlined below.

An applicant to the program in School Administration or Supervision must meet the Board of Regents criteria for admission to graduate study, possess a regular Florida Rank III graduate certificate or equivalent, and have completed at least one year of successful teaching as a full-time teacher in an elementary or secondary school. (Service as an aide or substitute does not meet the experience requirement.)

In addition, the Division offers a number of advanced general courses, some of which are requirements of various Masters 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.

ADMINISTRATION: ELEMENTARY OR SECONDARY

DEGREE: Master of Science

Arts & Sciences

		Quarter	Hours
Core Requir	rements		16
EDA 605	The Organization and Operation of		
	Public School Systems	4	
EDA 608	Supervision in Education	4	
EDA 609	Curriculum Development	4	
EDU 507	Analysis & Application of		
	Educational Research	4	
Other Cour.	ses		19-21
EDA 606	The Administration of an Elementary School	4	
or			
EDA 607	The Administration of a Secondary School	4	
EDA 616	Staff Development Pragroms in Urban		
	School Systems	4	
EDA 617	Emerging Designs for School Organization		
	and Stoff Utilization	4	
EDA 695	Supervised Field Experience	3-5	0.10
EEL 605	Curriculum Design for Childhaad Education	4	8-10
or			
EDS 625	Secondary School Curriculum	4	45
Electives: fr	om Education, School of Business and		
	Organizational Sciences, or College of		

SUPERVISION: ELEMENTARY OR SECONDARY

DEGREE: Moster of Science

		Qu	arter Hours
Core Requi	rements:		16
EDA 605	The Organization and Operation of		
	Public School Systems	4	
EDA 608	Supervision in Education	4	
EDA 609	Curriculum Development	4	
EDU 507	Analysis & Application of Educational Research	4	
Other Coul	ses:		19-21
EDA 615	Curriculum Evaluation and		
	Improvement in Urban School Systems	4	
EDA 616	Staff Development Programs in Urban	4	
	School Systems	4	
EDA 617	Emerging Designs for School	7	
	Organization & Staff Utilization	4	
EDA 695	Supervised Field Experience	3-5	
EEL 605	Curriculum Design for Childhood Education	4	
or		7	
EDS 625	Secondary School Curriculum	4	
Electives: fi	om Education, School of Business and		
	Organizational Sciences, or College of		
	Arts & Sciences		8-10
			0.10
			45
			43

COURSE OFFERINGS

GENERAL PROFESSIONAL EDUCATION

EDU 305 SCHOOLING IN AMERICA (5) (F,W,S,SS) Systematic analysis of the contemporary enterprise of schooling and development of demonstrated understanding of the nature of educational systems and the impact of political, legal, fiscal, and cultural issues upon these systems.

EDU 311 GENERAL TEACHING LABORATORY I — BASIC TEACHING SKILLS (5) (F,W,S,SS) Practice in generic teaching skills, techniques and strategies basic to all age levels and subject matter areas. Lecture, seminar and laboratory.

EDU 312 GENERAL TEACHING LABORATORY II — HUMAN RELATIONS SKILLS (5) (F,W,S,SS) Development of human relations skills to facilitate interaction and prepare students to deal with individuals and groups in a multi-ethnic urban classroom.

EDU 505 INSTRUCTIONAL TECHNOLOGY: SYSTEMS APPROACH (4) (F) Development of instructional competencies with an emphasis on the use of a systems approach in the design, implementation and evaluation of programs.

EDU 506 ANALYSIS OF TEACHING (4) (W) Examination of the research on instruction in teaching and the development of skills in systems of both observation and analysis of teacher behavior.

EDU 507 ANALYSIS AND APPLICATION OF EDUCATIONAL RESEARCH (4) (F,W,S,SS) Competencies required for the design, implementation, and evaluation of educational research, including problem formulation and analysis, sample selection, instrument selection, formulation of research design and procedure, and data analysis.

EDU 508 FIELD STUDY ABROAD (5-10) (ARR) Development of international and cross-cultural understandings of educational philosophies and systems through planned trovel and study abroad.

EDU 509 NATIONAL EDUCATIONAL SYSTEMS: A COMPARATIVE ANALYSIS (4) (W) Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of the responses of national educational systems to common educational issues.

EDU 514 LATIN AMERICAN EDUCATION: AN HISTORICAL AND CONTEMPORARY OVERVIEW (4) (5) Historical and current development of Latin American education and analysis of the principal forces shaping this development.

EDU 515 INTERCULTURAL EDUCATION: NATIONAL AND INTERNATIONAL PERSPECTIVES (4) (F) Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally.

EDU 516 INSTRUCTIONAL MEDIA (4) (W) Development of competencies required for effective selection and utilization of instructional media. Consideration of criteria for sources, selection, evaluation and methods of implementing media.

EDU 517 MEASUREMENT AND EVALUATION IN EDUCATION (4) (F) Competencies required for the design, construction or selection, and evaluation of measuring instruments.

EDU 518 AFFECTIVE LEARNING IN THE CLASSROOM (4) (W) 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.

EDU 595 INDIVIDUAL STUDY (1-5) (ARR.) The student plans and carries out an independent study project under direction. For topics directly related to content of EDU courses. May not substitute for regular course offerings. Prerequisite: Written permission of the Chairman of the Division and then approval of the instructor.

EDU 605 RESEARCH METHODS IN EDUCATION: EXPERIMENTAL DESIGN AND ANALYSIS (5) (W) Competencies required for the design and analysis of complex educational problems, including formulation of pre-experimental, true experimental, quasi-experimental, and factorial designs, and related analyses. Prerequisite: EDU 507.

EDU 606 APPLICATION OF LEARNING THEORY TO INSTRUCTION (4) (W) Competencies required for analysis of learning theories of selected theorists and application of these theories to components of an instructional system.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

EDA 605 THE ORGANIZATION AND OPERATION OR PUBLIC SCHOOL SYSTEMS (4) (F,SS) Examines the public school system as a complex formal organization, identifying 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 606 THE ADMINISTRATION OF AN ELEMENTARY SCHOOL (4) (S) Development of competencies required to assume the role of principal of an elementary school, with particular attention to the urban setting. Prerequisite: EDA 605.

EDA 607 THE ADMINISTRATION OF A SECONDARY SCHOOL (4) (S) Development of competencies required to assume the role of principal of a secondary school, with particular attention to the urban setting. Prerequisite: EDA 605.

EDA 608 SUPERVISION IN EDUCATION (4) (W,SS) Examines supervision as a process and the supervisory role in an educational setting, with particular attention to the development of supervision skills necessary to facilitate both individual and group change.

EDA 609 CURRICULUM DEVELOPMENT (4) (W,SS) Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling.

EDA 615 CURRICULUM EVALUATION AND IMPROVEMENT IN URBAN SCHOOL SYSTEMS (4) (W,SS) Development of skills in curriculum evaluation and strategies for improvement of on-gaing curriculum. (Prerequisite: EDA 609).

EDA 616 STAFF DEVELOPMENT PROGRAMS IN URBAN SCHOOL SYSTEMS (4) (F,SS) Identification and analysis of various staff training strategies and techniques used in an educational setting with an emphasis on defining staff problems and the processes by which such problems are solved.

EDA 617 EMERGING DESIGNS FOR SCHOOL ORGANIZATION AND STAFF UTILIZATION (4) (W,SS) Critical analysis of alternatives to traditional school organization and staffing and possible future alternatives in public education.

EDA 695 SUPERVISED FIELD EXPERIENCE (3-5) (F,W,S) Development of supervisory skills by undertaking an arranged field-based assignment. Prerequisites: The student must be in a master's degree program in educational administration or supervision at this university and must have completed EDA 605, EDA 606 or EDA 607, and EDA 608.

EDA 696 SEMINAR IN SCHOOL ADMINISTRATION/SUPERVISION (3) (S) In-depth study of selected issues and developments in school administration and supervision, including an examination of related research.

EDA 697 WORKSHOP IN SCHOOL ADMINISTRATION/SUPERVISION (3-5) (ARR) Offers an opportunity for experienced school administrators and supervisors to participate in a problem-oriented workshop.

EDA 698 INDIVIDUAL STUDY IN SCHOOL ADMINISTRATION/SUPERVISION (1-5) (ARR.) For advanced students wishing to undertake an individual project directly related to school administration or supervision. May not substitute for regular course offerings. Prerequisites: (1) The student must be in a master's degree program in educational administration or supervision at this university, and (2) Written permission of the Chairman of the Division and then approval of the instructor.

DIVISION OF CHILDHOOD EDUCATION

The Division offers programs at the Bachelors and Masters levels. All programs satisfy teacher certification standards of the State of Florida.

UNDERGRADUATE PROGRAMS

A student enrolled in the Division may pursue a Bachelors degree program in Childhood (Elementory) Education or in Early Childhood Education.

A student majoring in the Division is, upon admission to the University, assigned an advisor who will assist the student in planning a program of study. The program of study must comply with the degree requirements of the University, and will reflect the career goals of the student. Upon completion of the program of study, the student is awarded a *Bachelor of Science* Degree, and qualifies for Rank III Certification in the State of Florida. The typical program of study is outlined below.

Student Teaching and Laboratory Experiences

All undergraduate courses offered by the Division require a minimum of three (3) hours per week, per course, of observation and participation in designated schools. These experiences are a required segment of all courses.

The student teaching assignment is fulfilled in designated schools under the direction of classroom teachers and University faculty. This experience is on a full-time basis for a complete quarter. Permission will be contingent upon successful completion of all other requirements specified in the program of study. In general, the student is expected to enroll for student teaching in the senior year. Student teaching is *not* offered in the Summer quarter.

An application for student teaching may be obtained from the Office of Student Information and Academic Advising in the School of Education, and should be returned to that office early in the quarter following completion of 135 quarter hours of credit and no later than two quarters prior to the time of registration for student teaching.

Childhood Education, Grades 1-6

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: An Associate of Arts Degree or equivalent preparation in basic general education. A student must complete equivalents of the courses noted below. Otherwise they must be completed at the University.

- (a) MAS 401 and MAS 402
- (b) FIA 375
- (c) MUS 306 or MUP 366
- (d) Two science courses selected from Biological and/or Physical Sciences.
- (e) Foundations of Education (see p. 125).

UPPER DIVISION PROGRAM

		Quarter Hours
Professional Education:		75
EDU 305	Schooling in America	5
EDU 311	General Teaching Laborotory I	5
EDU 312	General Teaching Laborotory II	5
EEL 307	Health ond Physical Education For Children	5
EEL 318	Experiencing Art In The Elementary School	5
EEL 319	Experiencing Music In The Elementary School	5
EEL 401	Communication Skills I	5
EEL 402	Communication Skills II	5
EEL 403	Communication Skills III	5
EEL 411	Development Of Attitudes And Skills	
	For Inquiry I	5
EEL 413	Inquiry in Mothematics In The	
	Elementary School	5
EEL 414	Inquiry In Science In The Elementary school	5
EEL 425	Student Teaching	15

(Continued on next page)

(Continued)

Area of Concentration:

Each Childhoad Education major must complete a study pragram in an area of concentration consisting of at least 15 quarter haurs to extend the student's background af infarmation and understanding in an area of his choice. A wide variety of choices exists. The student should consult with his ar her advisor for this infarmation.

15

Quarter Hours

GRADUATE PROGRAMS

Masters programs are offered in the areas of Childhood Education, Early Childhood Education, and Reading Education. The programs are designed to prepare professional educators for the role of master teacher and leadership roles in these areas.

Requirements for admission to programs in Childhood Education are: (1) completion of an appropriate undergraduate teaching education program, (2) satisfactory scholastic aptitude as determined by the Graduate Admission standards, and (3) a satisfactory record in the teaching field.

Upon completion of his program, the student is awarded the *Master of Science* degree and qualifies for Rank II certification in the State of Florida.

A student must file a program of study with his or her advisor. The program of study must comply with the general Mosters degree requirements and reflect the career goals of the student. A typical program of study consists of 45 quarter hours of course work. Generally, ten quarter hours of graduate study from another accredited college or university may be transferred if applicable to the student's program.

CHILDHOOD EDUCATION

DEGREE: Master of Science

	QUUIT	el l'iduis
ofessional Education:		12
Curriculum Design For Childhaad Education	4	
Analysis And Application Of Educational		
Research	4	
e in sociology or psychology (consult advisor)	4	
ecialization:		24
Educational Programs For Older Children	4	
rses to be selected from among EEL course listings)	20	
		9
		_
		45
	Analysis And Application Of Educational Research e in sociology or psychalogy (cansult advisor) ecialization:	ofessional Education: Curriculum Design For Childhood Education 4 Analysis And Application Of Educational Research 4 in sociology or psychology (cansult advisor) 4 ecialization: Educational Programs For Older Children 4

EARLY CHILDHOOD EDUCATION

DEGREE: Master of Science

		Quart	er Hours
General Pro	ofessional Education:		12
EEL 605	Curriculum Design Far Childhood Education	4	
EDU 507	Analysis & Application Of Educational Research	4	
One course	e in saciology or psychology (consult advisor)	4	
Area of Sp	ecialization:		24
ECE 606	Education Programs For Younger Children	4	
(Other cau	rses to be selected from ECE course listings)	20	
Electives:			9
			_
			45

DEGREE: Master of Science

		Quarter	Hours
General Pr	ofessional Education:		12
EDU 507	Analysis And Application Of Educational Research	4	
EEL 605	Curriculum Design For Childhoad Education	4	
EDU 517	Measurement And Evaluation In Education	4	
Area of 5p	ecialization:		29
(Courses to	be selected in cansultation with your advisor)		
Electives:			4
			45

COURSE OFFERINGS

NOTE — Each caurse requires a minimum of 3 haurs per week in laboratory and field work.

EEL 307 HEALTH AND PHYSICAL EDUCATION FOR CHILDREN (5) (F,W,S,SS) Designed to provide competencies necessary for the development and implementation of programs concerning use of leisure time and maintenance of personal health and family life. Prerequisites: EDU 305, EDU 311, and EDU 312.

EEL 318 EXPERIENCING ART IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS) Designed to provide the student with competencies necessary for the development and implementation of art experiences in the elementary curriculum. Prerequisites: EDU 305, EDU 311, EDU 312, Art skills or equivolent.

EEL 319 EXPERIENCING MUSIC IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS) Designed to provide the student with competencies necessary far the development and implementation of music experiences in the elementary curriculum. Prerequisites: EDU 305, EDU 311, EDU 312, Music skills or MUE 375.

EEL 401 COMMUNICATION SKILLS I (5) (F,W,S,SS) Designed to develop and refine those teaching competencies which ollow the student to perform effectively as a teacher of reading. Prerequisites: EDU 305, EDU 311, and EDU 312.

EEL 402 COMMUNICATION SKILLS II (5) (F,W,S,SS) Designed to develop and refine those teaching campetencies which allow the student to perform effectively as a teacher of children using language arts activities to enhance communications skills. Prerequisite: EEL 401.

EEL 403 COMMUNICATION SKILLS III (5) (F,W,S,SS) Designed to implement and expand upon the teaching competencies of EEL 401 and EEL 402 in a classraom management practicum. Prerequisites: EEL 401 and EEL 402.

EEL 411 DEVELOPMENT OF ATTITUDES AND SKILL FOR INQUIRY I (5) (F,W,S,SS) Designed to develop and refine thase teaching competencies which allow the student to perform effectively as a teacher of children using social studies as a mode of inquiry. Prerequisites: EDU 305, EDU 311 and EDU 312.

EEL 413 INQUIRY IN MATHEMATICS IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS) Designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using mathematics as a mode of inquiry. Prerequisites: EDU 305, EDU 311, EDU 312, MAS 401 and MAS 402 or equivalent.

EEL 414 INQUIRY IN SCIENCE IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS) Designed to develop and refine thase teaching competencies which allow the student to perform effectively as a teacher of children using science as a made of inquiry. Prerequisites: EDU 305, EDU 311, and EDU 312.

EEL 425 STUDENT TEACHING (15) (F,W,S) A field experience in an elementary school where the student serves as a teacher associate, demanstrating competencies ocquired throughout the pragram. Prerequisite: All EEL caurses.

EEL 518 CHILDREN'S LITERATURE (5) (F) Designed to develop a critical analysis of the purposes, strategies and evaluative techniques of literature for children. Prerequisites: EEL 401, EEL 402

EEL 525 DIAGNOSIS AND REMEDIATION IN MATHEMATICS (4) (F) Strategies for studying symptoms, causes and consequences for children in the teaching of elementary school Mathematics; supervised case study; theoretical models. Prerequisite: EEL 413.

EEL 605 CURRICULUM DESIGN FOR CHILDHOOD EDUCATION (4) (F,SS) A study of curriculum theory, construction and evaluation.

EEL 606 EDUCATIONAL PROGRAMS FOR OLDER CHILDREN (4) (W) Programs developed for older children; curriculum Irends based an contemporory psychological, educational and socialogical research.

ECE 401 EARLY CHILDHOOD EDUCATION PROGRAMS (5) (F,S) Philosophy and theories of early childhood education; physical, emotional, social and mental development. Observation and participation are required. Senior class status required.

ECE 402 CURRICULUM AND INSTRUCTION IN EARLY CHILDHOOD EDUCATION (5) (W,S) Practical considerations of basic principles, experiments, research and trends related to early childhood education; materials and techniques of teaching and working with parents. Observation and participation are required. Senior class status required.

ECE 403 TRENDS IN EARLY CHILDHOOD EDUCATION (5) (F,W) To develop on understanding of and the skills for dealing with critical issues; assessing the progress of contemporary programs locally and nationally; and recommending solutions for current problems.

ECE 606 EDUCATION PROGRAMS FOR YOUNGER CHILDREN (4) (W) Programs developed for young children; curriculum trends based on contemporary psychological, educational and sociological research.

ECE/EEL 595 INDIVIDUAL STUDY IN EARLY CHILDHOOD/ELEMENTARY EDUCATION (1-5) (F,W,S,SS) Individual investigation in the area of instruction. Permission of instructor.

ECE/EEL 607 INSTRUCTION IN SOCIAL LEARNING (4) (S) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 608 INSTRUCTION IN LANGUAGE ARTS (4) (W) Refinement of skills related to program development, methods of teaching, selection of moterials and review of research.

ECE/EEL 609 INSTRUCTION IN READING (4) (F,SS) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 615 INSTRUCTION IN MATHEMATICS (4) (W,SS) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 616 INSTRUCTION IN SCIENCE (4) (F) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 617 INSTRUCTION IN MUSIC (4) (S) Refinement of skills related to pragram development, methods of teaching, selection of materials and review of research.

ECE/EEL 618 INSTRUCTION IN ART (4) (S) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 695 SUPERVISED FIELD EXPERIENCE IN EARLY CHILDHOOD/ELEMENTARY EDUCATION (5-15) (W,S) Field work in educational institutions and arganizations.

ECE/EEL 696 SEMINAR IN EARLY CHILDHOOD/ELEMENTARY EDUCATION (3) (W) Advanced study of critical issues and problems in early childhood/elementary education.

ECE/EEL 697 WORKSHOP IN EARLY CHILDHOOD/ELEMENTARY EDUCATION (3-5) An appartunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields.

ERE 503 ANALYSIS AND PRODUCTION READING MATERIALS (5) (S) Exploration, creation and evaluation of basic reading materials; commercial and non-commercial. Prerequisites: EEL 401 or equivalent.

ERE 601 DIAGNOSIS OF READING DIFFICULTY (5) (F,S) Technique for analyzing and clarifying reading difficulties. Prerequisites: EEL 401 or its equivalent. Permission of instructor.

ERE 602 PROGRAMS OF REMEDIATION IN READING (5) (W,SS) A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques. Prerequisites: EEL 401 and ERE 601 or their equivalents. Permission of instructor.

ERE 606 TEACHING READING IN THE SECONDARY SCHOOL (4) Development of skills necessary to identify reading problems in the classroom. Emphasis on how to use reading inventories and diagnostic tests as well as material and techniques for teaching reading skills and assisting students to avercome reading deficiencies. Special attention to reading problems of students in the specific subject areas. Prerequisites: ane course in reading.

ERE 625 RESEARCH IN READING (4) (F) A course to study significant research in reading; research methodology; planning and research in reading. Permission from instructor required.

ERE 626 PRACTICUM IN READING (4) (W) An analysis of reading difficulties through various teaching techniques and pragrams.

ERE 628 ORGANIZATION AND SUPERVISION OF READING PROGRAM (4) (F) The arganization and supervision of reading programs; problems of organization and supervision; continuity of school wide programs; emphasis on leadership responsibilities.

ERE 629 CLINICAL PROCEDURES IN READING (4) (W) Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting.

DIVISION OF SECONDARY EDUCATION

The Division offers Bachelors degree programs for the preparation of teachers for teaching in secondary schools, Art and Music in grades 1-12, and Masters degree programs designed for the continued professional development of teachers.

Unlike traditional programs in secondary education, which emphasize course completion as a sufficient condition for awarding a degree, the programs of the Division emphasize demonstrated performance in specific teaching skills as the main criterion for awarding a degree.

UNDERGRADUATE PROGRAMS

A student enrolled in the Division may pursue the following programs:

General: Grades 1-12
Art Education

Music Education

Secondary Education: Grades 7-12

Biology Education Chemistry Education

English Education History Education Mathematics Education

Modern Language Education Physics Education Social Studies Education

A student majoring in the Division is, after being admitted to the University, assigned an advisor in his or her 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 reflect the career goals of the student. Upon completion of the program of study, the student is awarded a Bachelor of Science degree with a major in a specific subject matter area, and qualifies for the appropriate Rank III Certification in the State of Florida.

STUDENT TEACHING AND LABORATORY EXPERIENCES

Most courses offered by this Division require observation and participation in selected schools. These experiences are a required segment of certain courses and are identified in each course description.

The student teaching assignment is fulfilled in designated field centers under the direction of classroom teachers and University faculty. This experience is on a full-time basis for a complete quarter. Permission to student teach will be contingent upon completion of all other requirements specified in the program of study. The student is expected to student teach during the Winter or Spring Quarter of the senior year. There is no student teaching in the Summer Quarter.

Application for student teaching is the responsibility of the student. Necessary forms may be obtained from the Office of Student Information and Academic Advising in the School of Education, and should be returned to that office early in the quarter following completion of 135 quarter hours of credit and na later than two quarters prior to the time of registration for student teaching.

ART EDUCATION: GRADES 1-12

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION:

Required Courses: 1) An Associate of Arts degree in art, or (a) Art History Survey (6 semester hours) and (b) Bosic and Figure Drawing (6 semester hours) and (c) Two and Three Dimensional Design (6 semester hours) and 2) Foundations of Education (10 quarter hours) (see p 125).

UPPER DIVISION PROGRAM:

		Quarter Hours
Subject Ma	tter Specialization:	45
ARH 585	Contemporary Art, Art History Elective	5
FIA 316	Figure Drawing	5
FIA 325	Painting	5
FIA 335	Sculpture	5
°FIA 345	Printmaking	5
*FIA 355	Photography	5
FIA 361	Ceromics	5
Studio Art	Elective	5

*If a comparable course has been taken in the lower division, the student has aption of Studio Art Elective.

(Continued)

Professional E	Education, including Art Education:		40
EDU 305	Schooling in America K-14	5	
EDU 311	General Teaching Laboratory I	5	
EDU 312	General Teaching Laboratory II	5	
tions courses, level special	ost complete the 10 quarter hours of founda- , and all core courses before enrolling in 400 methods courses. A student must enroll for R 416, and EAR 425 in consecutive quarters.		
EAR 405	Special Teaching Laboratory: Art in Grades K-6	5	
EAR 416	Special Teaching Laboratory: Art in Grades 7-12	5	
EAR 425	Student Teaching in Art	15	
	udent should consult his or her advisar abaut ents for reading.		
Electives:			5
Sufficient nur	mber of hours to make a total of 90 quarter da International,		
			_
			90

MUSIC EDUCATION: GRADES 1-12

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION

Required Courses: A student will be admitted to the program who has an adequate preparation in music (i.e., an Associate of Arts degree in Music or demonstrated competency through departmental exams in the areas of theory, performance on a major instrument, and proficiency at the keyboard) and Foundations in Education (10 quarter hours) (see p 125).

UPPER DIVISION PROGRAM

Subject Matter Specialization: Applied Music (Five quarters; ½ hour lessons on major instrument each quarter) Conducting Guitar Music History Music Theory Organizations Professional Education: EDU 305 Schooling in America EDU 311 General Teaching Laboratory 1 EDU 312 General Teaching Loboratory 1 EMU 305 Special Teaching Loboratory 1 EMU 306 Special Teaching Loboratory 1 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Loboratory 11 EMU 405 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours of Florida International.			Quarte	r Hours
lessons on major instrument each quarter) Conducting Guitar Music History Music Theory Organizations Professional Education: EDU 305 Schaoling in America EDU 311 General Teaching Laboratory I EMU 305 Special Teaching Loboratory II EMU 305 Special Teaching Loboratory II A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours of Florido International.	Subject Ma	tter Specialization:		41
Conducting Guitar Ausic History Solvations Professional Education: EDU 305 Schooling in America EDU 311 General Teaching Laboratory I EDU 312 General Teaching Laboratory I EMU 305 Special Teaching Laboratory I EMU 305 Special Teaching Laboratory I EMU 305 Special Teaching Laboratory I A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours of Florida International.	Applied M	usic (Five quarters; ½ hour		
Guitar Music History Music Theory Organizations 10 Professional Education: EDU 305 Schaaling in America EDU 311 General Teaching Laboratory I EDU 312 General Teaching Laboratory II EMU 305 Special Teaching Laboratory II 5 EMU 305 Special Teaching Laboratory II 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: 9 Sufficient number of hours to make a total of 90 quarter hours at Florida International.	lessons on	major instrument each quarter)	5	
Music History Music Theory Organizations Professional Education: EDU 305 Schooling in America EDU 311 General Teaching Laboratory I EDU 312 General Teaching Loboratory II EMU 305 Special Teaching Loboratory II 5 EMU 305 Special Teaching Loboratory II 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Loboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours at Florida International.	Conducting		4	
Music Theory Organizations Organizations 10 Professional Education: EDU 305 Schadling in America EDU 311 General Teaching Laboratory I EDU 312 General Teaching Laboratory II EMU 305 Special Teaching Laboratory II 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours of Florida International.	Guitar			
Organizations Professional Education: EDU 305 Schooling in America EDU 311 General Teaching Laboratory I EDU 312 General Teaching Laboratory II EMU 305 Special Teaching Laboratory II A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours of Florida International.	Music Histo	ory	5	
Professional Education: EDU 305 Schaaling in America 5 EDU 311 General Teaching Laboratory 5 EDU 312 General Teaching Loboratory 5 EMU 305 Special Teaching Loboratory 5 EMU 305 Special Teaching Loboratory 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory 5 EMU 425 Student Teaching (Elementary & Secondary) 15 NOTE: The student should consult his or her advisor about the requirements for reading. Electives: 9 Sufficient number of hours to make a total of 90 quarter hours at Florida International.	Music Theo	ory	15	
EDU 305 Schaaling in America 5 EDU 311 General Teaching Laboratory I 5 EDU 312 General Teaching Laboratory II 5 EMU 305 Special Teaching Laboratory II 5 EMU 305 Special Teaching Laboratory II 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II 5 EMU 425 Student Teaching (Elementary & Secondary) 15 NOTE: The student should consult his or her advisor about the requirements for reading. Electives: 9 Sufficient number of hours to make a total of 90 quarter hours at Florida International.	Organizati	ons	10	
EDU 311 General Teaching Laboratory I EDU 312 General Teaching Laboratory II EMU 305 Special Teaching Laboratory II 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours at Florida International.	Professiona	l Education:		40
EDU 312 General Teaching Loboratory II 5 EMU 305 Special Teaching Loboratory I 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II 5 EMU 425 Student Teaching (Elementary & Secondary) 15 NOTE: The student should consult his or her advisor about the requirements for reading. Electives: 9 Sufficient number of hours to make a total of 90 quarter hours of Florido International.	EDU 305	Schooling in America	5	
EMU 305 Special Teaching Laboratory 1 5 A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II 5 EMU 425 Student Teaching (Elementary & Secondary) 15 NOTE: The student should consult his or her advisor about the requirements for reading. Electives: 9 Sufficient number of hours to make a total of 90 quarter hours of Florida International.	EDU 311	General Teaching Laboratory I	5	
A student must complete the 10 quarter hours of foundations courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II 5 EMU 425 Student Teaching (Elementary & Secondary) 15 **NOTE: The student should consult his or her advisor about the requirements for reading.** Electives: 9 Sufficient number of hours to make a total of 90 quarter hours at Florida International.	EDU 312	General Teaching Laboratory II	5	
tions courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EMU 406 and EMU 425 in consecutive quarters. EMU 406 Special Teaching Laboratory II 5 EMU 425 Student Teaching (Elementary & Secondary) 15 **NOTE: The student should consult his or her advisor about the requirements for reading.** Electives: 9 Sufficient number of hours to make a total of 90 quarter hours of Florida International.	EMU 305	Special Teaching Laboratory I	5	
EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours at Florida International.	tions cours level speci	es and all core courses before enrolling in 400 ol methods courses. A student must enroll for		
EMU 425 Student Teaching (Elementary & Secondary) NOTE: The student should consult his or her advisor about the requirements for reading. Electives: Sufficient number of hours to make a total of 90 quarter hours at Florida International.	FMU 406	Special Teaching Laboratory II	5	
the requirements for reading. Electives: 9 Sufficient number of hours to make a total of 90 quarter hours at Florida International.				
Sufficient number of hours to make a total of 90 quarter hours at Florida International.				
hours at Florida International.	Electives:			9
	Sufficient	number of hours to make a total of 90 quarter		
90	hours of Fl	orida International.		
90				_
				90

BIOLOGY EDUCATION: GRADES 7-12

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of Biology; 12 quarter hours (8 semester hours) of General Chemistry; 12 quarter hours (8 semester hours) of General Physics; Mathematics through Analytical Geometry; and Foundations of Education (10 quarter hours) (see p 125).

UPPER DIVISION PROGRAM:

	Our	arter Haurs
Subject Matter Specialization:	QU	arier Haurs 35
1. Biology Core for non-Majors		
Genetics		
Biochemistry		
Molecular Biology		
Developmental Biology 2. Fundamentals of Ecology		
3. Human Physiology		
Organic Chemistry and Quantitative Analysis	12	
Professional Education:		25
EDU 305 Schooling in America K-14	5	35
EDU 311 General Teaching Laboratory I	5	
EDU 312 General Teaching Laboratory II	5	
A student must complete the 10 quarter hours of founda- tions courses, and all core courses before enrolling in 400 level special methods courses. A student must enroll for EDS 408 and EDS 425 in consecutive quarters.		
EDS 408 Special Teaching Laboratory: Science	5	
EDS 425 Student Teaching	15	
NOTE: The student should consult his or her advisor about the		
requirements for reading.		
Electives:		20
Sufficient number of hours to make a total of 90 quarter hours at Florida International.		
		_
		90

CHEMISTRY EDUCATION: GRADES 7-12

DEGREE: Bachelar of Science
LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of General Chemistry; 12 quarter hours (8 semester hours) of General Physics, Mathematics through Calculus I and Foundations of Education (10 quarter hours).

Recommended Courses: Organic Chemistry
UPPER DIVISION PROGRAM:

	Quarter Hours
Subject Motter Specialization:	31-35
Organic Chemistry I and II	10
Organic Chemistry Laboratories	4
Quantitative Analysis and Laboratory	5
Physical Chemistry and Laboratory	7
Calculus II	5
Professional Education:	35
EDU 305 Schooling in America K-14	5
EDU 311 General Teaching Laboratory I	5
EDU 312 General Teaching Loboratory II	5

(Continued)

A student must complete the 10 quarter hours of foundations courses, and all core courses before enrolling in 400 level special methods courses. A student must enroll for EDS 408 and EDS 425 in consecutive quarters.

EDS 408 Special Teach	ing Laboratory: Science	5
EDS 425 Student Teach	ning	15
NOTE: The student should	consult his or her advisor about	
the requirements for reading	ng.	
Electives:		20-24
Recommended in Environm	nental Science, Biology, Physics.	
Sufficient number of hours	s to make a total of 90 quarter	
hours at Florida Internation	nal.	
		90

ENGLISH EDUCATION: GRADES 7-12

DEGREE: Bachelar of Science LOWER DIVISION PREPARATION:

Required Courses: Two courses in freshman compasition. Two courses beyond freshman composition in literature. One course in oral interpretation and one course in advanced composition. (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.) Foundations of Education (10 quarter hours) (see p 125).

UPPER DIVISION PROGRAM:

	Quar	ter Haurs
Subject Matter Specialization:		45
1. Communications: (English 311, Expasitory Writing,	10	
is required unless the student can pass a		
composition test administered by the English		
Department).		
2. Linguistics:	10	
ENG 320 Introductory Linguistics		
ENG 460 Applied Linguistics (prerequisite ENG 320)		
ENG 552 Modern Grammars (prerequisite ENG 320)		
ENG 553 History of the English Language (prerequisite ENG 3	20)	
3, Literature	15-20	
Prafessional Education:		35
EDU 305 Schooling in America K-14	5	
EDU 311 General Teaching Laboratory I	5	
EDU 312 General Teaching Laboratory II	5	
A student must complete ten 10 quarter hours of founda- tions courses and all core courses before enrolling in 400 level special methods courses. A student must enroll for EDS 405 and EDS 425 in consecutive quarters.		
EDS 405 Special Teaching Laboratory: English	5	
EDS 425 Student Teaching	15	
NOTE: The student should consult his or her advisor about the requirements for reading.		
Electives:		10
Sufficient number of hours to make a total of 90 quarter		
hours at Florida International.		
		90
		70

HISTORY EDUCATION: GRADES 7-12

DEGREE: Bachelar af Science LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours) (see p 125).

Remarks: 9 quarter hours (6 semester hours) beyond the Social Science requirement in General Education may be transferred from the lower division toward satisfying requirements of items three and four under subject matter specialization below.

UPPER DIVISION PROGRAM:

	Qu	arter Hour:
Subject Matter Specialization:		40
1. History 301 Introduction to History	5	
2, U.S. History at 300, 400, or 500 level	10	
3. History other than U.S.	20	
4. U.S. Government	5	
Professional Education:		35
EDU 305 Schooling in America K-14	5	
EDU 311 General Teaching Laboratory I	5	
EDU 312 General Teaching Laboratory II	5	
A student must complete the 10 quarter hours of founda- tions courses, and all core courses before enrolling in 400 level special methods courses. A student must enroll for EDS 409 and EDS 425 in consecutive quarters.		
EDS 409 Special Teaching Laboratory: Social Studies EDS 425 Student Teaching	5 15	
NOTE: The student should consult his or her odvisor about the requirements for reading.		
Electives:		15
Sufficient number of hours to make a total of 90 quarter		
hours at Florido International.		
		90

MATHEMATICS EDUCATION: GRADES 7-12

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quorter hours) (see p 125).
UPPER DIVISION PROGRAM:

OTTER DIVIS	ON ROOKAM.	Qua	rter Hours
Subject Mo	atter Specialization:	400	35
	r hours beyond CALCULUS, including at least		
	r hours in Probability and Statistics and 5 quar-		
	in a computer related course.		
Profession	al Education:		35
EDU 305	Schooling in Americo K-14	5	
EDU 311	•	5	
EDU 312	The state of the s	5	
tions cour level spec	must complete the 10 quarter hours of founda- ses, and all core courses before enrolling in 400 cial methods courses. A student must enroll for and EDS 425 in consecutive quarters.		
EDS 406	Special Teaching Loboratory: Mathematics	5	
EDS 425	Student Teaching	15	
	ne student should consult his or her advisor about ements for reading.		
Electives:			20
	number of hours to make a total of 90 nours at Florida International.		
·			
100			90
138			-

MODERN LANGUAGE EDUCATION: GRADES 7-12

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Four semesters of elementary and intermediate modern language and Foundations of Education (10 quarter hours) (see p. 125).

UPPER DIVISION PROGRAM:

	Quarter Hours
Subject Matter Specialization:	30
30 quarter hours beyond second year college	
language in LANGUAGE AND LITERATURE	
Professional Education:	35
EDU 305 Schooling in America K-14	5
EDU 311 General Teaching Loboratory I	5
EDU 312 General Teaching Laboratory II	5
A student must complete the 10 quarter hours of founda- tions courses, and all core courses before enrolling in 400 level special methods courses. A student must enroll for EDS 407 and EDS 425 in consecutive quarters.	
EDS 407 Special Teaching Loborotory: Modern Longuages	5
EDS 425 Student Teaching	15
NOTE: The student should consult his or her advisor about the requirements for reoding.	
Electives:	25
Sufficient number of hours to make a total of 90 quarter hours at Florida International.	
	90

PHYSICS EDUCATION: GRADES 7-12

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION:

Required Courses: 12 quorter hours (8 semester hours) of General Physics; 12 quorter hours (8 semester hours) of General Chemistry; Mathematics through Calculus II, and Foundations of Education (10 quarter hours) (see p 125).

Remarks: Linear Algebra, a prerequisite for multi-variable Calculus (section 1 below) may be taken at the lower division or at Florida International.

UPPER DIVISION PROGRAM:

	er Hour
	35
	35
5	
5	
5	
unda-	
	5 5

A student must complete the 10 quarter hours of foundations courses, and all core courses before enrolling in 400 level special methods courses. A student must enroll for EDS 408 and EDS 425 in consecutive quarters.

(Continued on next page)

(Continued) **EDS 408** Special Teaching Laboratory: 5 15 EDS 425 Student Teaching NOTE: The student should consult his or her advisor about the requirements for reading. Electives: 20 Recommended electives in Chemistry, Environmental Studies, Instrumentation, and Dynamics. Sufficient number of hours to make a total of 90 quarter hours at Florida International. 90

SOCIAL STUDIES EDUCATION: GRADES 7-12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours) (see p 125).

UPPER DIVISION PROGRAM:

		Quart	er Hou
Subject Mai	tter Specialization:		20
·	History	10	
	Political Science	5	
	Geography	5	
Professiona	l Education:		35
EDU 305	Schaoling in America K-14	5	
EDU 311	General Teaching Laboratory I	5	
EDU 312	General Teaching Laboratory II	5	
courses, ar before enr	must complete the 10 hours of foundations and all core courses (EDU 305, 311 and 312) olling in 400 level special methods courses. A st enroll for EDS 409 and EDS 425 in consecurs.		
EDS 409	Special Teaching Laboratary: Social		
EDS 425	Studies Student Teaching	5 15	
LD3 423	Stodent reaching	13	
	student should cansult his ar her advisor abaut ments for reading.		
history, his economics, ies certifico hours at th in the socio ication. The	ust include sufficient hours in the United States tory other than United States, political science, geography and socialogy to meet social studition requirements. A minimum of 60 quarter e lower and upper division must be completed all studies subject matter specialization far certifies student must consult the social studies advisor e requirements.		35
			90

GRADUATE PROGRAMS

Masters programs are offered by the Division in the following specialized areas:

Art Education Music Education
English Education Science Education
Mathematics Education Social Studies Education
Modern Language Education

A student must file a program of study with his or her advisor. The program of study must comply with the general Masters degree requirements and reflect the career goals of the student.

Upon completion of his program, the student is awarded the Master of Science degree and qualifies for Rank II Certification in the State of Florida.

Requirements far admission to programs in Secondary Education are: (1) completion of an appropriate undergraduate teacher education pragram, (2) satisfactory schalastic aptitude as determined by the Graduate Admission standards, (3) evidence of satisfactory record in the teaching field, and (4) three letters of recommendation and a written autobiography.

A typical program of study consists of 45 quarter hours of course work. Generally, ten quarter hours of graduate study from another accredited college or university may be transferred if applicable to the student's program.

ART EDUCATION

DEGREE: Master of Science

	Quarte	r Hours
Education, including Art Educa	ition:	24
These courses to be taken in th	ne following sequence:	
1. EDU 505 Instructional Techno	ology 4	
2. EAR 605 Curriculum and Inst	ruction in Art 4	
3. Select one of following, depe	ending an individual	
professional orientation:	4	
EDU 506 Analysis of Teach	ning	
EDA 605 The Organization	and Operation of Public	
School System		
EDA 608 Supervision in Ed		
EEL 605 Curriculum Desig		
EDS 625 Secondary School		
EEC 608 Exceptional Child		
4. EAR 607 Organization and 0		
Community Ar	•	
5. EDU 507 Analysis and Appli		
Research	4	
6. EAR 609 Seminar in Art Edu Issues and Res	·	
		0.1
Subject Matter Specialization:		21
Five graduate art courses, incl	uding one art history:	
Art History (5)		
Studio Art (16)		
(4 quarter hours credit for each	studio course)	
Electives:		4
	(Minimum)	49

ENGLISH EDUCATION

DEGREE: Master of Science

		Quarter Hours
Education:		16
EDU 507°	Analysis and Application of Educational	
	Research	4
EDS 614°	Teaching English in the Secandary School	4
EDS 625	Secondary School Curriculum	4
EDS 639	Seminar in English Education	4

^{*}These courses to be taken in sequence

(Continue_ on next page)

(Continued)

Teaching Field: English	20
Electives:	9
	_
	45

MATHEMATICS EDUCATION

DEGREE: Master of Science

		Quarter Haurs
Education:		16
EDU 507	Analysis and Application of Educational Research	4
EDS 609	Teaching Mathematics in the Secondary	•
	School	4
EDS 616	Seminor in Mathematics Education	4
EDS 625	Secondary School Curriculum	4
Teachina Fi	ield: Mathematics	20
Electives: In Education and/or Mathematics		9
		_
		45

MODERN LANGUAGE EDUCATION

DEGREE: Master of Science

		Quarter Hours
Education:		20
EDU 505°	Instructional Technology	4
EDU 506°	Analysis of Teaching	4
EDS 615	Teaching Modern Languages in	
	Secondary School	4
EDS 625	Secondary School Curriculum	4
EDU 507	Analysis and Application of Educational	
	Research	4
	Education courses to be taken before other Edu- courses in the following sequence: EDU 505, 6	
Teaching Fi Electives:	eld: Modern Languages	20 5
		_
		45

MUSIC EDUCATION

DEGREE: Master of Science

		Quarter Hours
Education:		20
EDU 505°	Instructional Technology	
or		4
EDU 506*	Analysis of Teaching	
	Select one of the above.	
EDS 625	Secondary School Curriculum	
or		4
EEL 605	Curriculum Design for	
	Childhood Education	
	Select one of the above.	
EDU 507	Analysis and Application of	
	Educational Research	4
EMU 616	Methodology of Music Teaching	4
EMU 617	Seminar in Music Education	4
*EDU 505	and EDU 506 should be taken before other	

Education courses.

(Continued on next page)

(Continued)

Teaching Field: Courses in music including			20
MUS 517	Twentieth Century Music	4	
MUS 526	Arranging	4	
MUS 534	Advanced Conducting	2	
Electives:	•		5
			-
			45

SCIENCE EDUCATION

DEGREE: Moster of Science

		Q	Quarter Hours	
Education:			16	
EDS 617	Teaching Science in the			
	Secondary School		4	
EDS 625	Secondary School Curriculum		4	
EDU 507	Analysis and Application of			
	Educational Research		4	
EDS 649	Seminar in Science Education		4	
Teoching Fi			20	
Biology or	Chemistry or Physics			
or				
One Cours	e in Each of the Fallowing Areas			
Biology, Ch	nemistry, Physics			
(For Junior	High Science Teochers)			
Electives:			9	
			_	
			4.5	

SOCIAL STUDIES EDUCATION

DEGREE: Moster of Science

DEOREE, MOS	ner or otherice	Quarter Hours
Educotion:		16
EDS 619	Teaching Social Studies in	
	the Secondary School	4
EDS 625	Secondary School Curriculum	4
EDU 507	Analysis and Application of	
	Educational Research	4
EDS 629	Seminar in Social Studies Education	4
Teaching F	ield: Social Studies	20
Electives: In	Education and/or Teaching Field	9
		45

COURSE OFFERINGS

ART EDUCATION

EAR 405 SPECIAL TEACHING LABORATORY: ART IN GRADES K-6 (5) (F,S) Development of instructional skills, techniques, and strategies for teaching ort in the elementary school. Laboratory and field participation required. Prerequisites: EDU 305, EDU 311, EDU 312.

EAR 416 SPECIAL TEACHING LABORATORY: ART IN GRADES 7-12 (5) (F,W) Development of instructional skills, techniques and strategies for teaching ort in the junior and senior high school. Laboratory and field participation required. Prerequisites: EDU 305, EDU 311, EDU 312, EAR 405.

EAR 425 STUDENT TEACHING IN ART (15) (W,S) Supervised teaching in on elementary and secondary school. Prerequisites: EDU 305, EDU 311, EDU 312, EAR 405, EAR 416, and 35 quarter hours of the course wark required in Art.

EAR 505 ART FOR THE EXCEPTIONAL CHILD (5) (W,SS) Development of apprapriate instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation required.

EAR 605 CURRICULUM AND INSTRUCTION IN ART (4) (W) Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods and materials for art instruction in the elementary, junior and senior high school. Prerequisite: EDU 505.

EAR 607 ORGANIZATION AND COORDINATION OF SCHOOL AND COMMUNITY ART PROGRAMS (4) (F,SS) Pracedures for the arganization, coordination and evaluation of school, community, and in-service art pragrams, with particular attention to the urban multi-cultural setting.

EAR 609 SEMINAR IN ART EDUCATION: CONTEMPORARY ISSUES AND RESEARCH (4) (S) Examination of current issues and review of research in art education literature. Delineation and application of individual research problem. Prerequisite: EDU 507.

MUSIC EDUCATION

EMU 305 SPECIAL TEACHING LABORATORY I (5) (W,S,SS) Development of instructional skills, techniques, and strategies for school music performance arganizations through laboratory and field experiences. Prerequisites: EDU 305, 311, 312.

EMU 406 SPECIAL TEACHING LABORATORY II (5) (F,S) Field-based methods, materials and instructional skills caurse which prepares students for internship in on elementary and secondary school setting. Prerequisites: EDU 305, 311, 312 and EMU 305.

EMU 425 STUDENT TEACHING (15) (W,S) Supervised teaching in an elementary school (5 weeks) and a secondary school (5 weeks). Prerequisites: EDU 305, EDU 311, EDU 312, EMU 305, EMU 406 and 30 quarter haurs of the coursework required in music.

EMU 595 DIRECTED STUDY IN MUSIC EDUCATION (1-5) (ARR) Individual investigation in one or mare areas of music education.

EMU 616 METHODOLOGY OF MUSIC TEACHING (4) (W,SS) Analysis of methods, programs and materials for teaching music in the public schools, and development of music pedagogy skills.

EMU 617 SEMINAR IN MUSIC EDUCATION (4) (ARR) Seminar in music programs in the United States and foreign countries, and current issues and problems facing the music educator.

SECONDARY EDUCATION: GRADES 7-12

EDS 405 SPECIAL TEACHING LABORATORY: ENGLISH (5) (F,W) Development of instructional skills, techniques, and strategies far teaching English in the junior and senior high school. Prerequisites: EDS 305, EDU 311, and EDU 312. Field experience required.

EDS 406 SPECIAL TEACHING LABORATORY: MATHEMATICS (5) (F,W) Development of instructional skills, techniques, and strategies for teaching mathematics in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312. Field experience required.

EDS 407 SPECIAL TEACHING LABORATORY: MODERN LANGUAGES (5) (F,W) Development of instructional skills, techniques, and strategies for teaching modern languages in the junior and high school. Prerequisites: EDU 305, EDU 311, and EDU 312. Field experience required.

EDS 408 SPECIAL TEACHING LABORATORY: SCIENCE (5) (F,W) Development of instructional skills, techniques, and strategies far teaching biological and physical sciences in the junior and senior high schools. Prerequisites: EDU 305, EDU 311, and EDU 312. Field experience required.

EDS 409 SPECIAL TEACHING LABORATORY: SOCIAL STUDIES (5) (F,W) Development of instructional skills, techniques, and strategies for teaching history and social science in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312. (Field experience required.)

EDS 417 EXPERIENCING ADOLESCENT LITERATURE IN THE JUNIOR-SENIOR HIGH SCHOOL (4) (S) 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 for students who differ in intellectual obilities and literary tastes.

EDS 425 STUDENT TEACHING (15) (W,S) Supervised teaching in a juniar or seniar high school. Prerequisites: EDU 305, EDU 311, EDU 312, and appropriate Special Teaching Loboratory, and 30 quarter hours of the caurse work required in the student's teaching field.

EDS 505 SPECIAL TEACHING LABORATORY: READING (5) (ARR) Development of instructional skills, techniques, and strategies far teaching reading in the junior ond senior high school. Attention to attaining competence in subject-matter related reading skills.

EDS 595 INDIVIDUAL STUDY (1-5) (ARR) The student plans and carries out an independent study project under direction. Prerequisites: Consent of chairman of the division.

EDS 609 TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (4) (F) Analysis of methods, programs, and materials for teaching mothematics in the junior and senior high school and development of teaching skills.

EDS 614 TEACHING ENGLISH IN THE SECONDARY SCHOOL (4) (F) Analysis of methods, programs, and materials for teaching English in the junior and senior high school and development of teaching skills.

EDS 616 SEMINAR IN MATHEMATICS EDUCATION (4) (S) Designed to provide the advanced student with deeper understanding of the current state of Mathematics Education. Major emphasis on current trends and curriculum projects on the national and international levels, as well as evaluation and research related to these trends.

EDS 617 TEACHING SCIENCE IN THE SECONDARY SCHOOL (4) (F) Analysis of methods, programs and materials for teaching science in the junior and senior high school and development of teaching skills.

EDS 619 TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (4) (F) Analysis of methods, programs, and materials for teaching social studies in the junior and senior high school and development of teaching skills.

EDS 625 SECONDARY SCHOOL CURRICULUM (4) (W,SS) Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.

EDS 628 RESEARCH IN SECONDARY EDUCATION (1-4) (ARR) Examination and evaluation of research studies in secandary education. Prerequisite: At least one course in research methods or equivalent competency. Determination of equivalent competency will be made by the instructor.

EDS 629 SEMINAR IN SOCIAL STUDIES EDUCATION (4) (S) Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others with the consent of the instructor.

EDS 639 SEMINAR IN ENGLISH EDUCATION (4) (S) Designed for advanced students, the readings and discussions will focus on policy issues and recent research in English education. Though primarily for experienced English teachers and supervisors, the course is open to administrators and others with the consent of the instructor.

EDS 649 SEMINAR IN SCIENCE EDUCATION (4) (S) Analysis of research trends and selected topics in Science Education. Mainly for graduate students in secondary Science Education. Individual needs and interests will determine the fine structure of the course content.

EDS 695 SUPERVISED FIELD EXPERIENCE (5-15) (ARR) Field work in an educational institution or arganization. Prerequisite: Consent of chairman of the division.

EDS 696 SEMINAR IN SECONDARY EDUCATION (1-4) (ARR) Analysis of selected problems in secondary education.

EDS 697 WORKSHOP IN SECONDARY EDUCATION (3-5) (ARR) Production and application of materials and techniques in a laboratory or field setting. Prerequisite: Consent of instructor.

DIVISION OF PSYCHO-EDUCATIONAL SERVICES

Programs sponsored by the Division include those subspecialties whose major role is to help individuals experiencing academic or social adjustment problems in the schools. Competency domains are specified for teachers of exceptional children, for consultant or diagnostic teachers, for counselors and school psychologists. The context is one of preparing students for practice in the urban environment. Students are helped to integrate theory and research from the social and behavioral sciences and to develop the capability for identification with people of diverse cultural and raciol heritage.

UNDERGRADUATE PROGRAMS

The undergraduate special education program emphasizes the development of competencies in diagnosing learning and behavior problems, and prescribing and implementing on appropriate curriculum for exceptional children and youth. The trainee is prepared to conduct total classroom experiences for exceptional children, and, in addition, to reintegrate into the mainstream of education those students who are able to function full or port-time in the regular classroom. Programs

have been planned to meet the requirements of Florida for Rank III certification in each of the following areas of specialization: Mental Retardation, Emotional Disturbance, and Specific Learning Disabilities. A student may elect a major in any one of the three areas.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Recommended Courses: One course in psychology dealing with dynamics of behavior (or educational psychology), one course in cultural anthropology (or introductory sociology) (see p 00).

Required Course: Foundations of Education (see p. 125).

UPPER DIVISION PROGRAM:

		Quarter Hours
Professiona	Education *:	80
FDU 305	Schooling in America K-14	
EDU.311	General Teaching Lab, I	5
EDU 312	General Teaching Lab, II	5 5 5
EEC 306	Introduction to Exceptional Children and Youth	5
EEC 309	Introduction to Language Development	
	ond Communication Disorders	5
- EEC 315	Assessment of Exceptional Children and Youth	5
→ BSC 300	Human Biology	5 5 5
or		5
EEC-316	Foundations of Exceptionality	
EEL 401	Communications Skills, I	5
EEC 405	Academic Skills for Exceptional Children, I	5 5
EEC 406	Acodemic Skills for Exceptional Children, II	5
	llowing 3 courses depending upon major:	
EEC 407	Educational Planning for the Mentally Retarded	
or		
EEC 408	Educational Planning for Specific Learning	
	Disability	5
OR		
EEC 490	Educational Planning for Behavior Disorders	
EEC 4111	Behavioral Approaches to Classroom Learning, I	5
EEC 412	Behavioral Approaches to Classroom Learning, II	5
EEC 425	Student Teaching	15
••		
	of the courses in the undergraduate special	
	program require field work in the community	
during do	sytime hours.	
Electives:	1111	10
cicciives:	PP5626	10
		(90) 5

GRADUATE PROGRAMS

The Division prepares resource and consulting personnel whose major function is to help students who are experiencing academic or social adjustment problems in the schools. Competencies are stressed in the assessment of academic and social behaviors, educational programming, individual and group behavior change strategies, compensatory education and general child advocacy.

An applicant for a Masters degree must file an application with the Office of Admissions which includes a transcript of academic records and GRE scores. In addition, the applicant must submit to the Graduate Admissions Committee of the Division: 1) three recommendations, at least one from academic sources and one from work or volunteer experience; b) an autobiography, including a record of work experience. An applicant may also be scheduled for an interview. Criteria for admission include consideration of GRE scores and academic record, personal references, the candidate's clarity in presenting career aspirations, social intervention skills, evidence of a service orientation (to individuals and community) and willingness to commit time to field experiences during training.

An applicant to the program in Diagnostic Teaching must have completed an undergraduate training program in Special Education or possess a Rank III certificate or equivalent in another area of education.

Students accepted in the counselor education or school psychology pragrams should plan for and be prepared to commit time during the day for course-related experiences. The second year of training contains a series of field experiences including an internship placement for at least one quarter.

COUNSELOR EDUCATION

The program in counselar education requires 90 quarter hours of credit. The first 45 hours are largely generic in nature and lead to the development of competencies in individual and group counseling and other social and behavioral change techniques; consultation; program organization and evaluation, and coordination of school and community-centered interventions. Training patterns are more differentiated during the last 45 hours and lead to specialization in the following areas: a) counseling in the elementary schools; b) counseling at the secondary school level; c) counseling in higher education; d) vocational counseling; and, e) community counseling.

The program qualifies the student for certification in "Guidance" in the State of Florida and meets the stnadards for preparation of counselors recommended by the American Personnel and Guidance Association.

DEGREE: Master of Science

		Quarter Hours
General Pro	ofessional Education*:	4
EDU 507	Analysis and Application of Educational Research	4
Area of Spe	ecialization:	64-69
PPS 505	Prafessional Problems in Special Education and	
	Pupil Personnel Services	4
PPS 506	Introduction to Counseling	5
PPS 507	Human Interaction I: Personal Development	
	Labaratory	3
PPS 508	Educational and Vocational Guidance	5
PPS 601	Behavioral Counseling and Consultation I	5
PPS 602	Behavioral Counseling and Consultation II	5
PPS 628B	Advanced Practica in Pupil Persannel Services:	
	Counseling and Cansultation	5
PPS 611	Human Interaction II: Interpersonal Change and	
	Graup Process Labaratary	5
		_
		90

Graduate programs of study are available in the following areas:

DIAGNOSTIC TEACHING

The major competencies of the diagnostic teacher are an extension of those developed by the student in the undergraduate special education curriculum: a) assessment of learning styles through observation and on-going monitoring techniques; b) application of behavioral approaches to the building, monitoring and remediation of classroom behavior; c) communication of information concerning children to others within the school and to parents; d) behavioral change (monitoring;) e) curriculum planning and innovations; f) teacher and parent consultation; g) supervision of special education units.

The program of study is 45-60 quarter hours, depending upon the student's background. Areas of specialization include: Mental Retardation, Behavior Disorders, and Specific Learning Disabilities.

The program leads to Rank II certification in the State of Florida in either Mental Retardation, Emotional Disturbance or Specific Learning Disabilities.

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 his or her academic advisor to insure having the entry skills for this program.

		Quarte	er Hours	
General Pri	ofessional Education:		4	
EDU 507	Analysis and Application of Educational Research	4		
-	pecialization:	2	7-33	
PPS 505	Professional Problems in Special Education and	~		
2113 303	Pupil Persannel Services	2		
3071405	Organization and Administration of Special	_	,	
7	Education Programs	4	1	
EEC-699	Diagnostic Teaching	3-9		, -
EEC 695	Supervised Field Experience in Special Education	5		1
PPS 621	Assessment of Behavior, I	5		. !
PPS 626	Pragram Evaluation in Psycha-Educational Services	4		100
				()
	ne of the following three courses depending			
upan area	of certification pursued:			
EEC 615	Advanced Theory and Practice: Mental Retardation			
OR				
EEC 616	Advanced Theory and Practice: Specific Learning Disability	4		
OR				
EEC 617	Advanced Theory and Practice: Behavior Disarders			
Electives:			8-14	
PPS 612	Human Interaction III: Organizational Cansultation	5		
PPS 625	Organization, Administration and Supervision			
.6	of Pupil Personnel Services	4		
PPS 626	Pragram Evaluation in Psycha-Educational Services	4		
PPS 627	Career Development Theory and Practice	4		
PPS 695	Supervised Field Experience in Pupil Personnel			
	Services	15		
*The stu	udent should cansult with his or her advisar ta			0 0
establish	whether additional requirements must be met			m, ce
in gener	al prafessional education.			7
Electives		1	7-22	5
	it should consult with his or her academic advi-			10 4
	dance in selecting electives appropriate for spe-			V) .
	in elementary, vocational or cammunity			

OUT OF FIELD MAJORS

Spr

A student with a Rank III certificate in another area of education should consult with an academic advisor for evaluation of entry competencies to the program. If entry competencies cannot be demonstrated either on the basis of course equivalents, work experience or actual performance tests, the student will be asked to complete one or more of the following courses in addition to those listed above:

LLC 407	Educational Flanning for the Methally Relataea
or ·	
EEC 408	Educational Planning for Specific Learning Disability (*)
or	
EEC 409	Educational Planning for Behavior Disarders (4)
EEC 608	Exceptional Children and Yauth (4)
EEC 695	Supervised Field Experience in Special Education (5-10)
PPS 601)	Behavioral Counseling and Consultation, I (5)
EEC 609	Diagnostic Teaching (6-12)

SCHOOL PSYCHOLOGY

The program in school psychology requires 90 quarter hours of credit and six quarters of graduate study. In general, the competencies to be demonstrated by the student completing this program are derived from the following concepts of role behaviors for the school psychologist: behavioral/educational assessment and planning; counseling and child-centered consultation with

counseling.

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

		Quarter Hour	5
General Pri	ofessional Education*:	4	
EDU 507	Analysis and Application of Educational Research	4	
advisar	udent shauld consult with his or her academic ta establish whether additional requirements met in general professional education.		
Area of Sp	ecializotion:	68-74	
PPS 505	Professional Problems in Special Education and		
	Pupil Persannel Services	4	
PPS 506	Introduction to Counseling	5	
PPS 507	Human Interaction I: Personal Development		
	Laboratory	3	
PPS 601	Behavioral Caunseling and Consultation I	5	
PPS 602	Behavioral Counseling and Cansultation II	5	
PPS 611	Human Interaction II: Interpersonal Change and		
	Graup Process Laboratory	5	
PPS 621	Assessment of Behavior I	5	
PPS 622	Assessment of Behavior II	5	
PPS 628D	Advanced Practica in Pupil Persannel Services:		
	Psycho-Educational Assessment and Cansultation	5	
PPS 625	Organization, Administration and Supervision		
	af Pupil Personnel Services	4	
PPS 626	Pragram Evaluation in Psycho-Educational Services	4	
EEC 609	Diagnostic Teaching	3-9	
PPS 695	Supervised Field Experience in Pupil Personnel		
	Services	15	
Electives		12-18	
A student	with an undergraduate major in education is		
	d to select electives in the Social and		
	Sciences. An undergraduate majar in Psychal-		
	milar area is encouraged to build his ar her		
	ies in education.		

90

COURSE OFFERINGS

SPECIAL EDUCATION

EEC 306 INTRODUCTION TO EXCEPTIONAL CHILDREN AND YOUTH (5) (F,W) Significant cancepts in relation to the learning and adjustment problems of exceptional children and youth. Field experiences required.

EEC 309 INTRODUCTION TO LANGUAGE DEVELOPMENT AND COMMUNICATION DISORDERS (5) (F,W) Skills in assessing and classroam programming far language development and various speech and language disorders of children.

EEC 315 ASSESSMENT OF EXCEPTIONAL CHILDREN AND YOUTH (5) (\$,\$\$) Campetencies 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.

EEC 316 FOUNDATIONS OF EXCEPTIONALITY (5) (W,SS) Basic concepts in relation to the biological, genetic, psychological and social foundations of handicapping conditions as they apply to classroom behavior.

EEC 405 ACADEMIC SKILLS FOR EXCEPTIONAL CHILDREN, I (5) (F,W) Campetencies in the selectian, adaptatian and preparation of appropriate instructional materials in arithmetic, art, music, science and sacial studies, including skill with audio-visual equipment and other multi-media approaches. Prerequisites: EEC 306, EEC 309, EEC 315 and EEL 401.

and to

EEC 406 ACADEMIC SKILLS FOR EXCEPTIONAL CHILDREN, II (5) (W,S) Skills in a systems approach to individualized instruction in the classroom, including design and implementation of teaching strategies in all academic skill areas. Field experience required. Prerequisites: EEC 405 and EEC 411.

EEC 407 EDUCATIONAL PLANNING FOR THE MENTALLY RETARDED (5) (W,SS) Concepts and skills used in planning educational, prevocational and vocational programs for the mentally retarded. Laboratory experiences required. Prerequisites: EEC 405 and EEC 411.

EEC 408 EDUCATIONAL PLANNING FOR SPECIFIC LEARNING DISABILITY (5) (W,SS) Concepts and skills with various models of curriculum, instructional and classroom designs for individuals with specific learning disabilities. Laboratory experiences required. Prerequisites: EEC 406 and EEC 411.

EEC 409 EDUCATIONAL PLANNING FOR BEHAVIOR DISORDERS (5) (W,SS) Concepts and skills with various models of curriculum, instructional and classroom design for individuals with social and emotional adjustment problems. Laboratory experiences required. Prerequisites: EEC 405 and EEC 411.

EEC 411 BEHAVIORAL APPROACHES TO CLASSROOM LEARNING I (5) (F,W,SS) Concepts and skills for building and modifying social and academic behaviors. Skills in precision teaching, behavior modification and the functional analysis of behavior. Prerequisite: EEC 405.

EEC 412 BEHAVIORAL APPROACHES TO CLASSROOM LEARNING II (5) W,S,SS) Concepts and skills necessary for the management and maintenance of classroom behavior, including token economies and parent/teacher consultation. Field experience required. Prerequisite: EEC 411.

EEC 425 STUDENT TEACHING (15) (F,W,S) A field experience in a program for exceptional children, demonstrating competencies learned throughout the program.

EEC 595 INDIVIDUAL STUDY IN SPECIAL EDUCATION (3-)10) (F,W,S,SS) Concepts or competencies contracted for between a student and an instructor in accordance with the student's individual needs.

EEC 605 ORGANIZATION, ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION PROGRAMS (4) (5) Concepts and skills for organizing, administering and supervising service programs in special education. Competencies in regard to major role and service models and in the application of legal and ethical standards.

EEC 608 EXCEPTIONAL CHILDREN AND YOUTH (4) (F,SS) Significant concepts in relation to the learning and adjustment problems of exceptional children and youth. Field experience and graduate project required.

EEC 609 DIAGNOSTIC TEACHING (3, repeatable to 15) (F,W,S,SS) A total package of competencies individualized for students according to need and entry skills established by the student's advisor. Prerequisite: PPS 621.

- A. Introduction to Theoretical and Operational Models (3)
- B. Educational Assessment Skills (3)
- C. Acquisition and Development of Language and Academic Skills (3)
- D. Advanced Practicum in Academic Skills (3)
- E. Consultation and Leadership Skills (3)

EEC 615 ADVANCED THEORY AND PRACTICE: MENTAL RETARDATION (4) (\$,\$\$) Major concepts in the area of mental retardation and skills in their application to education.

EEC 616 ADVANCED THEORY AND PRACTICE: SPECIFIC LEARNING DISABILITY (4) (S,SS) Major concepts in the area of specific learning disability and skills in their application to education.

EEC 617 ADVANCED THEORY AND PRACTICE: BEHAVIOR DISORDERS (4) (S,SS) Major theories in the area of behavior disorders, and skills in their application to education.

EEC 695 SUPERVISED FIELD EXPERIENCE IN SPECIAL EDUCATION (5-15) (F,W,S,SS) Demonstration of the full range of competencies in Diagnostic Teaching learned throughout the program. Internship placements in a variety of field settings.

EEC 696 SEMINARS IN SPECIAL EDUCATION (4, repeatable to 12) (F,W,S,SS)

- A. Topics in Mental Retardation
- B. Topics in Specific Learning Disability
- C. Topics in Behavior Disorders

PUPIL PERSONNEL SERVICES

PPS 505 PROFESSIONAL PROBLEMS IN SPECIAL EDUCATION AND PUPIL PERSONNEL SERVICES (2, repeatable to 4) (F,W,S) Orientation to the professions of counseling, school psychology and special education.

- A. Introduction (2)
- B. Role development in a multi-cultural environment (2)

PPS 506 INTRODUCTION TO COUNSELING (5) (F,W,SS) Major theoretical concepts in counseling. Competencies in relationship-building, interviewing, role-playing, simulation and micro-counseling.

PPS 507 HUMAN INTERACTION I: PERSONAL DEVELOPMENT LABORATORY (3) (F,W,SS) Skills in interpersonal communication and the analysis of group process (e.g., developmental phases, norm development, member and leader behavior).

PPS 508 EDUCATIONAL AND VOCATIONAL GUIDANCE (5) (W,SS) Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and sacio-psychological influences on career development.

PPS 601 BEHAVIORAL COUNSELING AND CONSULTATION I (5) (F,SS) Concepts and skills in using behavior modification: functional analysis of behavior, precision teaching, token economies, contingency contracting, parent and/or teacher consultation.

PPS 602 BEHAVIORAL COUNSELING AND CONSULTATION II (5) (W) Extended laboratory experiences stressing the development of skills in behavioral approaches to individual and group counseling, consultation, parent education, and in-service training. Prerequisite: PPS 601 or equivalent.

PPS 611 HUMAN INTERACTION II: INTERPERSONAL CHANGE AND GROUP PROCESS LABORA-TORY (5) (W) Competencies in diagnosis and intervention in small graups. Prerequisite: PPS 507 or its equivalent.

PPS 612 HUMAN INTERACTION III: ORGANIZATIONAL CONSULTATION (5) (S) Theoretical concepts and skills in organizational development and change. Campetencies in systematic consultation, assessment, agenda setting, third-party cansultation for canflict management, team building, decision-making and feedback. Prerequisite: PPS 611.

PPS 621 ASSESSMENT OF BEHAVIOR I (5) (F,SS) Basic concepts in assessment theory and competencies in using a variety of standardized tests in assessing and writing educational prescriptions for children with disorders in visual, auditory and haptic processing, in language or integrative systems.

PPS 622 ASSESSMENT OF BEHAVIOR II (5) (W) Cancepts and skills in the assessment of intelligence with a particular emphasis an the problems of assessing mental retardation, giftedness, and minarity groups. Prerequisite: PPS 621.

PPS 625 ORGANIZATION, ADMINISTRATION AND SUPERVISION OF PUPIL PERSONNEL SERVICES (4) (S) Development of concepts and skills in the arganization, administration and supervision of service programs in counseling, school psychology and other areas of pupil personnel.

PPS 626 PROGRAM EVALUATION IN PSYCHO-EDUCATIONAL SERVICES (4) (F,S) Evaluation skills in student's area of specialization, including competencies in designing evaluation propasals and conducting an actual program evaluation. Prerequisite: EDU 507.

PPS 627 MEASUREMENT AND APPRAISAL IN COUNSELING (4) (\$,\$\$) Concepts and skills related to the use of tests and other kinds of appraisal procedures in counseling. Particular emphasis upon career and vocational choice processes. Laboratory experiences included.

PPS 628 ADVANCED PRACTICA IN PUPIL PERSONNEL SERVICES (5, repeatable to 15) (F,S)

- A. Group Process (5)
- B. Counseling and Cansultation (5)
- C. Vocational Counseling (5)
- D. Psycho-Educational Assessment and Consultation (5)

PPS 695 SUPERVISED FIELD EXPERIENCE IN PUPIL PERSONNEL SERVICES (5-15) (F,W,S) Demonstration of the full range of competencies learned throughout the program in Counseling or School Psychology. Internship placements in a variety of field settings.

PPS 696 SEMINARS IN PUPIL PERSONNEL SERVICES (4, repeatable to 12) (F,W,S,SS) Special topics in relation to counseling ar school psychology.

PPS 698 INDIVIDUAL STUDY IN PUPIL PERSONNEL SERVICES (3-10) (F,W,S,SS) Competencies contracted for between a student and an instructor in accordance with the student's individual needs.

DIVISION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

The Division offers Bachelors and Masters degree programs. All courses of the programs are performance based, are self-paced, and allow considerable individualized instruction.

UNDERGRADUATE PROGRAMS

Programs in the Division relating to teacher education are designed to meet requirements for certification leading to a *Bachelor of Science* degree in either Health Education or Physical Education. A student receiving a degree in Health Education is certified to teach in Grades 7 through 12;

a student receiving a degree in Physical Education is certified to teach in Grades 1 through 12. Upon completion of a required core, the student has a wide range of options which include specialization in elementary or secondary school physical education.

A Bachelor of Science degree is also granted to a student completing the Parks and Recreation Management curriculum. Within the general requirements in this program, the majoring student is given an opportunity to develop programs consistent with his or her interests and career goals.

HEALTH EDUCATION, GRADES 7-12

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION

Required: Foundations of Education, (10 quarter hours)

Recommended: Equivalents of personal health, anotomy or physiology, and bacteriology are offered in the community college programs and students are urged to take these courses before entering Florido International.

UPPER DIVISION PROGRAM:

		Quart	er Hours
Subject Mai	ter Specialization:		15
BIOLOGY	courses in the upper division to include		
BACTERIOL	OGY OR MICROBIOLOGY AND HUMAN ANATOMY		
OR PHYSIC	DLOGY		
Professiona	l Education:		70
EDU 305	Schooling in Americo K-14	5	
EDU 311	General Teaching Loboratory I	5	
EDU 312	General Teaching Laboratory II	5	
ERE 505	Special Teaching Lob: Reading	5	
HED 405	Special Teaching Lab: Health Education	5	
HED 406	Healthful Living: Personal	5	
HED 407	Healthful Living: Community	5	
HED 408	School Programs in Health Education	5	
HED 409	School Health Services	5	
HED 410	Drug Education	5	
HED 411	Critical Issues in Health Education	5	
HED 425	Student Teaching	15	
Advised Ele	ctives:		5
HSM 304	Delivery Systems	5	
			_
			90

PHYSICAL EDUCATION, GRADES 1-12

DEGREE: Bachelor of Science LOWER DIVISION PREPARATION

Required: Foundations of Education, (10 quarter hours)

Recommended: Equivolents of personal health, physiology and various skill courses are offered in community college programs and students are urged to take these courses before entering Florida International.

UPPER DIVISION PROGRAM:

		Quarter Hours
Subject Mot	ter Specialization:	5
BSC 374	Physiology	5
Professional	Education:	80
EDU 305	Schooling in Americo	5
EDU 311	General Teaching Loboratory I	5
EDU 312	General Teaching Laboratory II	5
ERE 505	Special Teaching Lob: Reading	5
PHE 305	Kinesiology	5
PHE 306	Exercise Physiology	5
PHE 308	Socio-Psychological Perspectives	
	af Physical Activity	5
PHE 309	Adapted Physical Education	5
PHE 405	Special Teaching Lab: Physical Education	5

Movement Education in the Elementary School	5	
Theory and Practice in Physical Activities	5	
Healthful Living: Personal	5	
Student Teaching	15	
Evaluation in Physical Education	5	
ectives: Elementary Emphasis		(5)
Rhythms and Dance	5	
Health and Physical Education in the		or
Elementary School	5	
ectives: Secondary Emphasis		(5)
Coaching Sports	5	
Athletic Injuries	5	
Drug Education	5	
		_
		90
	Theory and Practice in Physical Activities Healthful Living: Personal Student Teaching Evaluation in Physical Education crives: Elementary Emphasis Rhythms and Dance Health and Physical Education in the Elementary School crives: Secondary Emphasis Coaching Sports Athletic Injuries	Theory and Practice in Physical Activities

PARKS AND RECREATION MANAGEMENT

DEGREE: Bachelor of Science
LOWER DIVISION PREPARATION

(Cartinuad)

Required Courses: Introductory Sociology and Mathematics

Recommended Courses: It is recommended that the student desiring to enter the Parks and Recreation Management curriculum be a graduate of a two-year program in recreation leadership or its equivalent.

Quarter Hours

UPPER DIVISION PROGRAM:

		apaner moors
Professiona	l Education:	55-70
HRM 301	Management Accounting for the	
	Haspitality Industry	5
PRM 305	Principles of Park and Recreation Management	5
PRM 307	Care and Maintenance of Grounds	5
PRM 350	Personnel Management in Parks and Recreation	5
BUA 309	Organization and Management	5
PRM 375	Pragram Development in Parks and	
	Recreation Management	5
HRM 320	Operations Control	5
PRM 497	Seminar in Parks and Recreation Management	5
PRM 425	Internship	15-30
Advised Ele	ectives:	
Students v	vill take 20-35 quarter hours of electives after	
consultatio	n with their advisar.	
		20-35
		90
		, •

GRADUATE PROGRAMS

The Division offers a Moster of Science degree in Curriculum and Instruction with an emphasis in either Health Education or Physical Education. An applicant wishing to enroll in the program must possess a bachelor degree. A minimum of 45 quarter hours is required to complete the program. Additional hours may be required if the background of the student is not consistent with the field of study. A student seeking certification who does not have an undergraduate degree in that field of specialization must meet the State of Florida requirements for Rank III Certification.

HEALTH EDUCATION

DEGREE: Moster of Science

		Quarter Hours
Professional	Education:	8
EDU 507	Analysis and Application of	
	Educational Research	4
EDU 506	Analysis of Teaching	4
PSY 601	Special Tapics in Educational Psychology	5

(Continued on next page)

(Continued)

Area of Spe	ecialization:		20
HED 505	Current Cancepts in Community Health	4	
HED 697	Creative Workshop in Health Education	4	
HED 506	Health Curriculums in Public Schools	4	
HED 507	Educational Approaches to Health Problems	4	
HED 696	Seminar in Health Education	4	
Electives:			17
			_
			45

PHYSICAL EDUCATION

DEGREE: Master of Science

Each student must complete a minimum of 32 hours in the School of Education, 24 of which must be in Physical Education.

Professional Education: EDU 507 Analysis and Application of Educational Research Areas of Specialization: Students should elect one course from each of the following areas: Research Techniques Physiology, Kinesiology, and Exercise Physiology Evaluation Child and Motor Development	Quorter Ho 4 4 32	urs
Saciology and Psychology Anthropology and History Curriculum and Instruction Administration and Supervision		
Electives:	9	
	45	

COURSE OFFERINGS

HEALTH EDUCATION

HED 405 SPECIAL TEACHING LABORATORY: HEALTH EDUCATION (5) (F,S) This course is designed to develop competencies directly associated with classroom teaching. Students will be expected to demonstrate these competencies in a variety of public school situations.

HED 406 HEALTHFUL LIVING: PERSONAL (5) (S) Students will display their competencies in personal health by demonstrating their knowledge in class presentations in the area of diseases, mental illness, nutritional trends, and aspects of reproduction.

HED 407 HEALTHFUL LIVING: COMMUNITY (5) (F) Students will display their competencies in community health by identifying, observing, and discussing aspects of health that affect society such as ecology and pollution.

HED 408 SCHOOL PROGRAMS IN HEALTH EDUCATION (5) (W) Students will display their competencies by developing a school health curriculum and by demonstrating various approaches that can be utilized for teaching health.

HED 409 SCHOOL HEALTH SERVICES (5) (W) Students will display their competencies by actively participating with various agencies and services available to local schools.

HED 410 DRUG EDUCATION (5) (S) Following on in-depth study of different drugs and their effects on the individual and society the students will observe rehabilitation methods used at local treatment centers and will apply these methods in group sessions.

HED 411 CRITICAL ISSUES IN HEALTH EDUCATION (5) (S) The student will display competencies by distinguishing between and interpreting aspects of health which appear to be most important to society including legislative issues and public opinion.

HED 425 STUDENT TEACHING (15) (F,W,S) During the student's internship he or she will demonstrate those competencies which are characteristic of a competent health education teacher.

HED 505 CURRENT CONCEPTS IN COMMUNITY HEALTH (4) (W) Students will examine the attitudes af people with various sacial backgrounds and will demonstrate in discussions how these different attitudes relate to the formulation of community health programs.

HED 506 HEALTH CURRICULUMS IN PUBLIC SCHOOLS (4) (S) Students will develop and analyze various health curriculums and validate their appropriateness to various age groups.

HED 507 EDUCATIONAL APPROACHES TO HEALTH EDUCATION (4) (W) Students will select various madern techniques and tools for teaching elementary health education and employ these techniques and tools in a classroom setting.

HED 595 INDIVIDUAL STUDY (1-5) (F,W,S,SS) Designed for individuals to work independently on health education topics of their chaice under the direction of faculty member. Permission of the instructor and division chairman is needed.

HED 695 SUPERVISED FIELD EXPERIENCE (5-15) (F,W,S,SS) A practical study pursued in an educational environment at a university, agency or school approved by the faculty. Approval to enroll will be granted upon submission of an acceptable proposal stating objectives and desired autcomes of such an experience.

HED 696 SEMINAR IN HEALTH EDUCATION(3) (S) Students will critically analyze issues and trends in health education and display their competencies by participating in in-depth discussians of their findings.

HED 697 CREATIVE WORKSHOP IN HEALTH EDUCATION (5) (SS) Students will show their competencies by creating new materials and techniques that will aid in conveying modern health concepts to their students.

PHYSICAL EDUCATION

PHE 305 KINESIOLOGY (5) (W) This caurse is designed to provide students the apportunity to demonstrate in a teaching situation the application of various principles of movement.

PHE 306 EXERCISE PHYSIOLOGY (5) (W) Students will be expected to apply various aspects of the functioning af the human bady to the development of physical education pragrams and the teaching of specific sport skills.

PHE 308 SOCIO-PSYCHOLOGICAL PERSPECTIVES OF PHYSICAL ACTIVITY (5) (S) After a study of cultural and psychological influences that activities have an children, students develop teaching campetencies which will take into account individual differences.

PHE 309 ADAPTED PHYSICAL EDUCATION (5) (W) Competencies to be achieved include both a physiological and psychological understanding of atypical children and the ability to apply this knowledge in practical situations.

PHE 405 SPECIAL TEACHING LABORATORY: PHYSICAL EDUCATION (5) (F,W) This caurse is designed to develop competencies directly associated with classraom teaching. Students will be expected to demonstrate these competencies in a variety of public school situations.

PHE 407 COACHING SPORTS (5) (F) Students will be assigned to a coach to study and apply various coaching principles and techniques.

PHE 408 MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (5) (W) After a brief intraductory session students will be assigned to a particular elementary school where they will develop competencies in movement education programs for the elementary school age level.

PHE 411 THEORY AND PRACTICE IN PHYSICAL ACTIVITIES (5) (F) Students will be expected to attain campetencies in eleven activities. Those students who do not meet given standards during the pre-testing phase will be allowed to meet these campetencies through clinical wark.

PHE 412 RHYTHMS AND DANCE (5) (W, every other year) A fundamental mavement course based on music where the students will demonstrate teaching campetencies in basic rhythms, fundamental dance mavements, and falk dancing.

PHE 416 ATHLETIC INJURIES (5) (F) Students will demanstrate the proper care and prevention of athletic injuries through the application of acceptable training techniques.

PHE 425 STUDENT TEACHING (15) (F,W,S) During the student's internship he or she will demonstrate those competencies which are characteristic of a competent physical education teacher.

PHE 436 EVALUATION IN PHYSICAL EDUCATION (5) (F,S) Students will demonstrate the competencies in motor skill testing, grading, and analysis of written test scares that are necessary for successful teaching in physical education.

PHE 505 CREATIVE WORKSHOP IN PHYSICAL EDUCATION (4) (W) Students will create materials and teaching techniques for physical education. These materials and techniques will then be utilized in practical classraam situations.

PHE 506 PERCEPTUAL MOTOR LEARNING (4) (F) Students will demonstrate knowledge and understandings 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.

PHE 507 CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION (4) (W) 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.

PHE 509 HISTORY OF PHYSICAL EDUCATION AND SPORT (4) (S) Students will study the history of sport and will take part in writing their own review of sport from a chosen time in history.

PHE 535 SOCIOLOGY OF SPORT (4) (F) 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.

PHE 595 INDIVIDUAL STUDY (1-5) (F,W,S) 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 adviser.

PHE 695 SUPERVISED FIELD EXPERIENCE (5-15) (F,W,S) Students may use this course to become involved in an in-depth field study, research project, or a variety of other activities under the guidance of a faculty member.

PHE 696 SEMINAR IN PHYSICAL EDUCATION (4) (W) Students will participate in the exploration, examination and discussion of problems, issues and trends in physical education and sport.

PHE 698 SURVEY OF RESEARCH IN PHYSICAL EDUCATION (4) (5) Following a survey of research in physical education, students will demonstrate competencies in applying this knowledge to teaching situations in the public schools.

PARK AND RECREATION MANAGEMENT

PRM 305 PRINCIPLES OF PARK AND RECREATION MANAGEMENT (5) (F) An exploration of the field of recreation and parks including career areas. Students will be expected to demonstrate competency in the knowledge of management responsibilities and supervisory level principles and theory.

PRM 307 CARE AND MAINTENANCE OF GROUNDS (5) (W) A study of procedures for maintaining outdoor facilities. Students will be expected to display competence in proper maintenance of areas normally found in parks and recreation centers.

PRM 309 TURF GRASS MANAGEMENT (5) (F) A practical approach to the care and maintenance of special grasses such as those found on golf courses and other recreational facilities.

PRM 350 PERSONNEL MANAGEMENT IN PARKS AND RECREATION (5) (W) After a study of how individuals work with one another in a management setting students will demonstrate competencies necessary for hiring staff, conducting group dynamics, communicating to the public, and administering democratically.

PRM 375 PROGRAM DEVELOPMENT IN PARKS AND RECREATION MANAGEMENT (5) (S) Students will attain competencies centered around developing objectives, planning a program, and implementing and administering the program.

PRM 425 INTERNSHIP (15) (F,W,S,SS) An on the job training program designed to enable students to develop those competencies which can only be gained from practical experience.

PRM 497 SEMINAR IN PARKS AND RECREATION MANAGEMENT (5) (S) A discussion of current problems, issues and trends in parks and recreation management which will help the student develop those competencies necessary to deal with every day aspects of particular programs.

DIVISION OF VOCATIONAL AND ADULT EDUCATION

The Division prepares and services professional personnel whose major functions are to teach, coordinate, supervise and administer vacational, and adult 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 vacational, and adult teacher/administration certification.

UNDERGRADUATE PROGRAMS

The Division offers undergroduate preparation leading to the degree of Bachelor of Science in Education with specialized majors in the following areas: Industrial Arts Education, Technical Education, Vocational Home Economics Education, Vocational Industrial Education. Although the programs are designed for entry into the field of public education, a candidate may seek employment in business, industry or other private agencies.

Applicants for admission are required to have an Associate Degree or equivalent course work. For specific entrance requirements consult the general admission statement for undergraduate students in this catalog. Because of the wide range of entry level competencies and career goals, each student in consultation with his or her advisor plans a program of study during the first quarter of enrollment.

VOCATIONAL HOME ECONOMICS EDUCATION

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours). (see p. 125).

Recommended Courses: With reference to subject matter specialization, the student is required to have for certification 65 quarter 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:

		(Quarter Hours
Professiona	l Education:		45
EDU 305	Schooling in America	5	
EDU 311	General Teaching Laboratory I	5	
EDU 312	General Teaching Laboratory II	5	
HEE 305	Home Economics Educational Planning	5	
HEE 405	Instruction in Vocational Home Economics	5	
HEE 406	Special Teaching Laboratory	5	
EVO 425	Student Teaching	15	
Technical Pr	reparation: Total of 65 quarter hours		(65)
needed from	lower and upper division		` '
Housing an	d Home Furnishing*	10	
Manageme	nt and Family Economics**	10	
Family and	Child Development**	15	
Food and I	Nutrition**	15	
Textiles and	d Clothing*	15	
*Cours	es offered in the School of Technology		
* * Cours	es offered in the School of Health and Social Services		
Advised Ele	ctives:		10

Advised Electives:

Sub-specialty area of concentration

Competencies may be developed in one of the following six fields:

- 1. One area of consumer and homemoking education
- One area of wage-earning home economicsEducation for the handicapped
- Education for the culturally disadvantaged
- 5. Education for the adult learner
- 6. Educational settings in business, industry or public service agencies

90

INDUSTRIAL ARTS EDUCATION

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours), (see p. 125).

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:

PER DIVISI	JN PROGRAM:		
		Quarter Ho	ours
Professiona	l Education	40	
EDU 305	Schooling in America	5	
EDU 311	General Teaching Laboratory I	5	
EDU 312	· ·	5	
EDU 306		5	
EIA 405	Instruction in Industrial Arts	5	
EVO 425	Student Teaching	15	
Technical P	•	45	
	A minimum of 45 quarter hours are		
	r certification with a minimum of		
	hours in each of the following areas:		
10 400/101	CONSTRUCTION		
IAT 305			
IAT 405	Construction Technology (5) Construction Processes (5)	5	
IAT 405		5	
IA1 420	Architectural Drafting (5)	5	
	MANUFACTURING		
IAT 306	Monufacturing Technology (5)	5	
IAT 419	Materials Processing (5)	5	
IAT 415	Drofting I (5)	5	
or			
IAT 416	Drafting II (5)	5	
IAT 409°	Materials of Industry (5)	5	
IAT 406°	Industrial Research and Development (5)	5	
	GRAPHIC COMMUNICATIONS	5	
IAT 307	Reprogrophics (5)	5	
IAT 407	Planogrophics (5)	5	
IAT 408	Photographics (5)		
	POWER	5	
		5	
IAT 417	Mechanical Power Systems I (5)	5	
IAT 418	Electrical/Electronics Systems (5)	5	
TEY 326°	Survey of Electronics (5)	· ·	
IAT 422°	Mechanical Power Systems II (5)		
T	*Elective courses		
	ectives: See asterisked courses		
	other courses offered by the School	5	5
of Technol		`	•
Advised Ele			
	ectives should be taken to equal a		
minimum o	f 90 quarter hours.	90	,
		90	J

POST-SECONDARY TECHNICAL EDUCATION

DEGREE: Bochelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (10 quarter hours). (see p. 125).

Recommended Preparation: Technical preparation in the student's intended area of teaching such as electronics technology, architectural technology, dental hygiene, commercial ort, electronic data processing, electro-mechanical technology and other occupations requiring training beyond the twelfth grade.

UPPER DIVISION PROGRAM:

		Quarter Hours
Profession	al Education:	70-80
EDU 305	Schooling in America	5
EVO 509	Technical Education in American Society	4
EDU 311	General Teaching Laboratory I	5
EAD 509	Adult Teaching and Learning	4
EDU 312	General Teaching Laboratory II	5
EVO 306	Course Planning in Vocational Education	5
EVO 407	* Supervised Occupational Experience	5-15
	the state of the s	

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Ounder House

(Continued)

*For the student who lacks acceptable accupational experience in the area to be taught.

ence in ii	ne area ta be taugnt.		
	or		
EVO 505	Credit by Examination	5-45	
EVO 504	Educational Media	5	
EVO 406	Special Teaching Laboratory	5	
EVO 425	Student Teaching	15	
Advised Ele	ctives:		10
Science, M	athematics, Technology, Psychology ar		
Saciolag	у		
Free Elective	es:		10
Enough ele	ctives should be taken to equal a minimum		
of 90 quar	ter hours		
			90

VOCATIONAL INDUSTRIAL EDUCATION

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education (10 quarter hours) (see p. 125).

Recommended Preparation: Technical preparation in the student's intended area of teaching such as air conditioning and refrigeration, automative repair, commercial foods preparation, cosmetalogy, electronics, machine shap trades and other trade and industrial accupations.

UPPER DIVISION PROGRAM:

		Quart	er Hours
Professional	Education:	6	0-70
EDU 305	Schooling in America	5	
EVO 305	Faundations of Vocational Education	5	
EDU 311	General Teaching Laboratory I	5	
EDU 312	General Teaching Laboratory II	5	
EVO 306	Caurse Planning in Vacational Education	5	
EVO 308	Vacational Education Laboratory Management and Safety	5	
EVO 407°	Supersived Occupational Experience	5-15	
	lents who lack acceptable accupational experience in		
	ta be taught.		
or	e ha e a a a	5-45	
EVO 505	Credit by Examination	5	
EVO 504	Educational Media	5	
EVO 406	Special Teaching Laboratory		
EVO 425	Student Teaching	15	1.0
Advised Ele			10
SOC 571	Man, Society and Technology		
ar			
SOC 581	Industrial Socialogy	5	
or			
PSY 350	Industrial Psychology		
PPS 508	Educational and Vacational Guidance	5	
Free Elective	PS:		10
Enaugh ele	ctives shauld be taken to equal a minimum		
of 90 quart	ter hours.		
			90

CERTIFICATION PROGRAMS

The Division offers programs for Rank III and Rank II vocational teacher certification. A student in any of these programs should enroll in the University as a special student in Vocational Education.

The Standard Certificate Rank III program in vocational teacher education is designed to qualify the practicing vocational education teacher for employment in comprehensive secondary schools, vocational skill centers, and/or technical institutes.

The Post Standard Certificate Rank II program in vocational teacher education is designed to extend to the practicing vocational education teacher certification for teaching in comprehensive secondary schools, vacational skill centers, and technical institutes.

RANK III VOCATIONAL TEACHER CERTIFICATION EDUCATION

The Standard Certificate in Rank III (valid for 3 years) will be issued by the State Teacher Certification Office to an individual having: (a) three years full-time teaching experience in vocational industrial education subjects, and (b) 30 quarter hours in professional education and vocational teacher education courses. Specific requirements can be found in Section 42 of the State Teacher Certification Guide. Planned programs of preparation completed for certification requirements may be applied to degree requirements.

RECOMMENDED PREPARATION FOR VOCATIONAL CERTIFICATION

		105)	Quarter Hours
Required	Courses: Foundations of Education (see p	o. 125).	10
Profession	nal Vacational Education:	Certificate	
		Area	
EVO 305	Foundations of Vocational		
	Education	A	5
EVO 306	Course Planning in Vocational		
	Education (suggested second		
	course in sequence	В	5
EVO 308	Vocational Education Laboratory		
	Monagement and Safety	С	5
EVO 504	Educational Media	В	5
EVO 409	Instructional Processes in		
	Vocational and Technical Educa-		
	tion (suggested first course in		
	sequence)	В	4

RANK II VOCATIONAL TEACHER CERTIFICATION EDUCATION

The Post Standard Certificate in Rank II (valid for 10 years) will be issued by the State Teacher Certification Office to an individual: (a) who has held a Standard Certificate, Rank III, for a minimum of five (5) years as who has been employed as a teacher in public or non-public schools in Florida for three of the five years, and (b) earned 54 quarter hours of college credit in vocational teacher education and general education and/or general professional education and/or technical education courses.

The 54 quarter hours of course work is planned so that (a) a minimum of 18 and a maximum of 27 quarter hours are earned in professional vacational education courses, and (b) a minimum of 18 and a maximum of 27 quarter hours are earned in general education or general professional education and/or technical education. A Rank II candidate may select courses in planning his/her programs which are applicable to meeting baccalaureate degree requirements. A candidate is urged to consult with a university advisor to formulate a program of study for approval by the State Teacher Certification Office prior to starting his or her program.

GRADUATE PROGRAMS

The Division offers graduate work leading to the degree of *Master of Science* in Education in either Curriculum and Instruction or Administration and Supervision. The programs and areas of emphasis are as follows:

CURRICULUM AND INSTRUCTION

Area of Emphasis: Adult Education, Industrial Arts Education, Technical Education (Community College Teaching), Vocational Industrial Education.

ADMINISTRATION AND SUPERVISION

Area of Emphasis: Adult Education, Vocational Education

Admission to graduate programs in the Division requires adherence to the general standards as specified in the General Admission Requirements for Graduate Students in this Catalog. In addition, an applicant must hold an undergraduate degree in the area in which graduate work will be

completed, or in some appropriately related subject. Under certain conditions, an applicant not meeting the minimum requirements, and who has appropriate professional background and aspirations, may be considered an an individual basis by the Division faculty.

Each graduate student, in consultation with his chosen advisor, plans a program of study to include a core of professional competencies, an area of emphasis, and electives. The programs require a minimum of 45 quarter hours.

VOCATIONAL INDUSTRIAL EDUCATION

DEGREE: Moster of Science

		Quarter Hours
Required Co	ore:	21
EVO 506	Trends and Issues in Vocational Education	5
EVO 507	Curriculum Development in Vocational Education	4
EVO 616	Research in Vocational and Adult Education	4
EVO 696	Seminar in Vacational Education	4
EDU 506	Analysis of Teaching	4
Area of Pro	fessional Emphasis:	13-17
profession school-base	under the direction of his or her advisor, may develop of competencies in his or her area of emphasis through ed field experiences, seminars, methods courses, or independent study.	
	ectives: late will be encouraged to select courses that will s or her subject area technical competence.	8-12
	TECHNICAL EDUCATION	45

TECHNICAL EDUCATION

DEGREE: Master of Science

		Quar	ter mours
Required Co	ore:		20
EVO 506	Trends and Issues in Vocational Education	4	
EVO 507	Curriculum Development in Vocational Education	4	
EVO 616	Research in Vocational and Adult Education	4	
EVO 696	Seminar in Vocational Education	4	
EDU 506	Analysis of Teaching	4	
Area of Pro	ofessional Emphasis:		8
EVO 509	Technical Education in American Society	4	
EAD 509	Adult Teaching and Learning	4	
Technical E	lectives:		17
The candi	date will be encouraged to select courses that will		
increase hi	s or her subject area technical competence.		
			45

INDUSTRIAL ARTS EDUCATION

DEGREE: Master of Science

		Qua	rter Hours
Required C	ore:		20
EVO 506	Trends and Issues in Vocational Education	4	
EVO 507	Curriculum Development in Vocational Education	4	
EVO 616	Research in Vocational and Adult Education	4	
EDU 506	Analysis of Teaching	4	
EVO 696	Seminar in Vocational Education	4	
Area of Pro	ofessional Emphasis:		9-13
EIA 605	Analysis of Industrial Arts Education	4	
develap p schoolbase	nt, under the direction of his or her advisor, may rofessional competencies in an area of emphasis via rd field experiences, seminars, methods courses, , or independent study.		
Technical E	lectives:		8-12
	it is encouraged to select courses that will increase his ect area technical competence.		
			_
			45

ADMINISTRATION AND SUPERVISION OF VOCATIONAL EDUCATION

DEGREE: Mos	ter of Science		
		Quart	er Hours
Required Co	ore:		36
EVO 507	Curriculum Development in Vocational Education	4	
EVO 517	Supervision and Coordination of Vacational Education Program	4	
EVO 526	Community Relations and Resources far Vacational Education	4	
EVO 606	Administration of Local Vacational Educational Pragrams	4	
EVO 696	Seminar in Vocational Education	4	
EDA 605	The Organization and Operation of Public School System	4	
EDA 607	The Administration of Secondary School	4	
EDA 608	Supervision in Education	4	
EDA 609	Curriculum Development	4	
Area of Pro	fessional Emphosis:		4
EVO 695	Supervised Field Experience	4	
Electives:			5
	date will be encouraged to select caurses that will		
	s or her administrative and supervisory competencies.		
	,		_
			45

ADULT EDUCATION: CURRICULUM AND INSTRUCTION ADMINISTRATION AND SUPERVISION

The Graduate Program in Adult Education is designed for the individual who is serving, or chooses to serve, as learning a facilitator, counselor, administrator, curriculum developer and/ar 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.

DEGREE: Moster of Science

		Quarter Hours
Required Co	ore: to be selected with an advisar	20
fram the fall		
EAD 507	Principles and Practices of Adult Education	4
EAD 508	Organization and Administration of Adult Education	4
EAD 509	Adult Teaching and Learning	4
EAD 510	Designing Educational Programs with Disadvantaged Adults	4
EAD 519	Program Development in Adult and Vocational Education:	
	Cammunity/Institutional Level	4
EAD 520	Program Development in Adult Education:	
	Instructional/Activity Level	4
EVO 616	Research in Vocational and Adult Education	4
Area of Pro	fessional Emphosis:	9-12
The studer	it, under the direction of his orher advisor, may develop	
profession	al competencies in an area of emphasis through field	
experience	s, seminars, methods courses, workshaps or independ-	
ent study.		
Electives:		13-16
The candi	date will be encouraged to select courses that will	
increase h	is ar her campetence in a teaching specialty ar a sup-	
partive so	cial/behavioral science.	
		45

COURSE OFFERINGS

VOCATIONAL EDUCATION

EVO 305 FOUNDATIONS OF VOCATIONAL EDUCATION (5) (F,S) Competency: A knowledge of the history of vocational education on the national, state, and local levels.

EVO 306 COURSE PLANNING (5) (F,W,S) Competency: Basic knowledge and skill of analyzing planning and organizing badies of knowledge for instructional purposes.

EVO 308 VOCATIONAL EDUCATION LABORATORY MANAGEMENT AND SAFETY (5) (W) Competency: Knowledge and skill of analyzing, planning, organizing, and controlling laboratory environments and students safe learning activities.

EVO 406 SPECIAL TEACHING LABORATORY (5) (F,W) Competency: Knowledge of institutional structure, arganization, policies, and roles of school personnel with actual teaching experience in their areas of specialization. Prerequisites: EDU 311 and EDU 312.

EVO 407 SUPERVISED OCCUPATIONAL EXPERIENCES (5-15) (ARR) Competency: Development of occupational skill via field based work-experience in industry, business, ar government agency in an occupation in which the student is preparing to teach.

EVO 408 OCCUPATIONAL SAFETY AND HEALTH (OSHA) (5) (S) Competency: Knowledge of the history, implications and applications of the Occupational Safety and Health Act of 1970. For vocational and technical teachers, industrial employees, and management personnel.

EVO 409 INSTRUCTIONAL STRATEGIES AND EVALUATION IN VOCATIONAL AND TECHNICAL EDUCATION (5) (F) Competency: Knowledge and skill in analyzing, planning, developing, executing, and evaluating, classroom and laboratory teaching and learning activities.

EVO 410 EMERGING EMPHASES IN CAREER EDUCATION (5) (F) Competency: A knowledge of current trends and issues in reference to developing and integrating career education into current elementary and secondary educational programs.

EVO 412 CREDIT BY EXAMINATION (5-45) (ARR) Competency: Demonstration of technical knowledge and skills in an occupation via performance examinations, evaluation of approved licenses, pragram completion certificates, and/or other documentation of life/wark experiences.

EVO 419 LABORATORY ACTIVITIES FOR TEACHERS OF THE HANDICAPPED (5) (F) Competency: The use of projects, tools, materials, and equipment to facilitate training the occupationally and physically handicapped and mentally retarded.

EVO 425 STUDENT TEACHING (15) (W,S) Competency: Utilization of instructional knowledges, attitudes, and skills in a variety of instructional situations in vacational educational setting. Prerequisite: EVO 406.

EVO 502 TEACHING CAREER RELATED ACTIVITIES (5) (W,SS) Competency: Integration and articulation of career concepts and activities with regular curriculum.

EVO 504 EDUCATIONAL MEDIA (5) (F,W,S,SS) Competency: Knawledge and skill in selecting, developing and utilizing instructional media forms to communicate ar demonstrate concepts.

EVO 506 TRENDS AND ISSUES IN VOCATIONAL EDUCATION (4) (F,S) Competency: A knowledge of the basic philosophical and curricular trends and issues in vocational-technical education at the international, national, state, and local levels.

EVO 507 CURRICULUM DEVELOPMENT IN VOCATIONAL EDUCATION (4) (W) Competency: Basic knowledge and skill of analyzing, planning, organizing and developing curriculum in an area of specialization.

EVO 509 TECHNICAL EDUCATION IN AMERICAN SOCIETY (4) (W) Competency: Knowledge of the basic role, and current status of technical education in an industrial democracy.

EVO 516 COOPERATIVE VOCATIONAL EDUCATION PROGRAMS (4) (F) Campetency: Knowledge and skill in the basic philasophy, principles, and pracesses and pracedures of the cooperative method in vacational and technical education.

EVO 517 SUPERVISION AND COORDINATION OF VOCATIONAL EDUCATION PROGRAMS (4) (F) Competency: Knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals.

EVO 526 COMMUNITY RELATIONS AND RESOURCES FOR VOCATIONAL EDUCATION (4) (S) Competency; knowledge and skill in developing and utilizing community resources and establishing public relations procedures and practices to implement vocational education pragrams.

EVO 527 EVALUATION IN VOCATIONAL AND TECHNICAL EDUCATION (4) (S) Competency: Knowledge and skills in the use of tests and measurements to evaluate teaching and learning effectiveness and the validity of objectives.

EVO 595 INDIVIDUAL STUDY (1-15) (ARR) Competency: Identifying, researching, and reporting on a special problem of interest to the student. Subject to approval of program adviser.

EVO 597 WORKSHOP IN VOCATIONAL EDUCATION (1-10) Competency: Selected competencies related to: a) Instructional b) Technical

EVO 606 ADMINISTRATION OF VOCATIONAL EDUCATION PROGRAMS (4) (\$) Competency: Knowledge of the principles, proctices, functions, and roles of administration in the operation of vocational education programs.

EVO 616 RESEARCH IN VOCATIONAL AND ADULT EDUCATION (4) (S) Competency: Knowledge and skill in identifying, defining, collecting, analyzing, and synthesizing research related problems in vocational and adult education.

EVO 695 SUPERVISED FIELD EXPERIENCE (4-8) (ARR) Competency: Application and refinement of competencies in either classroom, laboratory, administration and supervision via school based field experiences. Placement is subject to approval of program advisor.

EVO 696 SEMINAR IN VOCATIONAL EDUCATION (2-4) (W) Competency: The application of knowledges and skills to solve special instructional, curricular and/or administrative and supervisory problems and issues in vocational education.

EVO 697 GRADUATE WORKSHOP IN VOCATIONAL EDUCATION (1-10) (ARR) Competency: Selected competencies related to: a) Professional b) Program

INDUSTRIAL ARTS EDUCATION

EIA 403 THE ROLE OF INDUSTRIAL ARTS IN THE SCHOOLS (5) Competency: Knowledge of the basic philosophy, gools, programs, principles, proctices, learning environments and the relationship of industrial arts to other school disciplines.

EIA 405 INSTRUCTION IN INDUSTRIAL ARTS (5) (F, W) Competency: Applying educational principles, practices, and techniques to the teaching of industrial orts. Prerequisite: EDU 311.

EIA 528 EQUIPMENT AND FACILITIES PLANNING (4) (S) Competency: Utilization of research, design, engineering knowledge and skills to plan loboratory facilities and equipment.

EIA 595 INDIVIDUAL STUDY (1-5) (ARR) Competency: Identifying, researching, and reporting on a special problem in industrial arts of interest to the student. Subject to approval of program adviser.

EIA 605 ANALYSIS OF INDUSTRIAL ARTS EDUCATION (4) (W) Competency: Knowledge of industrial orts at the national, state, and local levels.

VOCATIONAL HOME ECONOMICS EDUCATION

HEE 305 HOME ECONOMICS EDUCATIONAL PLANNING (5) (F, S) Competency: Development and adaptation of curriculum and strategies for the presentation of vocational home economics content in a variety of educational settings.

HEE 405 INSTRUCTION IN VOCATIONAL HOME ECONOMICS (5) (W, SS) Competency: Applying educational principles, practices and techniques to teaching home economics in varied educational environments. Prerequisites: EDU 311 and HEE 305.

HEE 406 SPECIAL TEACHING LABORATORY HOME ECONOMICS (5) (F, W, S) Competency: Knowledge of the educational institution and utilization of teaching skills via mini-teaching experiences within areas of home economics in selected institutions. Prerequisites: EDU 311, 312, HEE 305, 405.

HEE 505 TRENDS IN VOCATIONAL HOME ECONOMICS EDUCATION (4) (F, S) Competency: Knowledge of current social, economic and educational issues affecting the field of vocational home economics. Subject to approval of program odviser.

HEE 506° TEACHING FOOD AND NUTRITION (5)

HEE 507° TEACHING CHILD DEVELOPMENT (5)

HEE 508 * TEACHING CLOTHING AND TEXTILES (5)

HEE 509 * TEACHING FAMILY LIFE EDUCATION (5)

HEE 515° TEACHING HOUSING AND HOME FURNISHINGS (5)

HEE 516° TEACHING CONSUMER EDUCATION AND FAMILY ECONOMICS (5)

HEE 595 INDIVIDUAL STUDY (1-5) (F, W, S) Competency: Identifying, researching and reporting on a special problem in vocational home economics. Subject to approval of program adviser.

HEE 596 SPECIAL WORKSHOP — HOME ECONOMICS (1-5) Competency: Skill in developing, organizing, teaching, evaluating, and administering programs related to specific aspects of home economics education. Subject to approval of program adviser.

HEE 606 TEACHING HOME ECONOMICS IN THE SECONDARY SCHOOL (4) Competency: Knowledge of current and evolving methods, programs, and materials to teach and evaluate home economics. Prerequisite: EVO 507 or permission of instructor.

HEE 607 SUPERVISION OF STUDENT TEACHERS IN HOME ECONOMICS (4) Competency: Skill in teaching, observing, and evaluating student teachers in vocational home economics.

*Course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational methods.

HEE 696 SEMINAR IN HOME ECONOMICS EDUCATION (4) Competency: Application of selected instructional, curricular and/or administrative principles and practices to the solution of problems of special interest to vocational home economics educators. Subject to approval of program adviser.

ADULT EDUCATION

- EAD 507 PRINCIPLES AND PRACTICES OF ADULT EDUCATION (4) (F, S) Competency: Developing a rationale for and philosophy of adult education, contrasting agencies, programs, and curricula, evaluating adults' educational pursuits, analyzing factors affecting adult education; differentiating adults and youths as learners; planning and opproising programs for adults.
- EAD 508 ORGANIZATION AND ADMINISTRATION OF ADULT EDUCATION (4) (W) Competency: Analyzing regulations affecting adult education; selecting and training staff; selecting organization patterns oppropriate for given programs; executing managerial responsibilities; arranging for community involvement and administering supportive services.
- EAD 509 ADULT TEACHING AND LEARNING (4) (W, SS) Competency: Differentiating theories of learning in relation to teaching adults; contrasting characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to learning situations appropriate for adults.
- EAD 510 DESIGNING EDUCATIONAL PROGRAMS FOR DISADVANTAGED ADULTS (4) (S) Competency: Distinguishing various forms of disadvantagement; analyzing these problems and forces which inhibit their solution; critiqueing responses to these problems; developing training programs, curricula and materials, recruitment strotegies, and evaluation designs.
- EAD 519 PROGRAM DEVELOPMENT IN ADULT AND VOCATIONAL EDUCATION: COM-MUNITY/INSTITUTIONAL LEVEL (4) (F, S) Competency: Analyzing variables central to program and community development; analyzing principles and roles requisite for effective group functioning; developing a consensus group philosophy; designing, conducting and interpreting studies of community needs; translating needs into measurable community objectives; mobilizing and integrating resources; planning, conducting and interpreting evaluation studies.
- EAD 520 PROGRAM DEVELOPMENT IN ADULT EDUCATION: ACTIVITY/INSTRUCTIONAL LEVEL (4) (5) Competency: Analyzing models for instructional design, identifying and evaluating variables related to such models, developing designs unique for adult learners.
- EAD 525 WORKSHOP IN ADULT EDUCATION (3-15) ARR) Short-term intensive development of selected operational competencies related to instructional, curricular and/or administrative skills, practices and procedures of special interest to students in adult education.
- EAD 526-550 SPECIAL TOPICS IN ADULT EDUCATION (1) (ARR) "Mini-courses" which provide for an exomination of special facets of Adult Education.
- EAD 595 INDIVIDUAL STUDY IN ADULT EDUCATION (1-5) (F, W, S, SS) Specialized intensive study in areas of interest to the student. Subject to approval of program adivser.
- EAD 596 SUPERVISED FIELD EXPERIENCES IN ADULT EDUCATION (1-15) (F, W, S, SS) Internship placements in various on-going adult education programs. On-site supervisory visits by program advisers. Intermittent conferences and seminors involving the student, the program adviser, and an oppropriate agency representative.
- EAD 697 SEMINAR IN ADULT EDUCATION (2-4) (S) Provides intensive study of instructional, curricular, and/or administrative principles and practices for the solution of problems of special interest to students in adult education.

SCHOOL OF HEALTH AND SOCIAL SERVICES

The School of Health and Social Services offers several bachelors programs and, currently, one masters program, in the following Allied Health and Social Services Fields: criminal justice, dietetics and nutrition, health science, home economics, medical technology, nursing, occupational therapy, physical therapy and social work.

The philosophy of the School works toward providing for the physical, psychosocial and rehabilitative needs of individuals through a comprehensive health care delivery system. Service to the client is focused on prevention and health maintenance. The School considers both health and social services as functional allied health fields. The curriculum seeks to help the individual attain a high level of wellness.

A student enrolled in the School may take a selected number of electives in other units of the University, core courses common to all helping professions, and the required professional courses. Clinical and field experiences are required components in some professional programs. The advisement and counseling services in the School provide for the individual needs of students.

CRIMINAL JUSTICE

The Department offers majors in Criminal Justice with areas of interest in police administration, correctional administration, criminal justice administration, or criminalistics-chemistry. Each of these areas is designed to assist the student in gaining the necessary scientific and scholarly insights and skills to function effectively in his or her field of criminal justice.

DEGREE: Bochelor of Science in Criminal Justice

LOWER DIVISION PREPARATION:

Required Courses: None

Remark: The student majoring in Criminal Justice should consult with an academic advisor to ensure that the actual courses selected (1) meet program and degree requirements, and (2) are consistent with the individual's long range academic and coreer objectives.

Recommended Courses: 1. The student intending to enroll in the Criminal Justice Program is urged to complete on Associate of Arts degree or on Associate of Science degree or an equivalent program, in criminal justice, law enforcement, police science, criminalistics, criminalogy, corrections, or a similarly related field of study, prior to enrollment at Florida International. Such students will receive complete recognition of their credits and degree. No deficiency requirements will be imposed by the University other than those imposed by the Board of Regents policy and regulations. 2. The Criminalistics-Chemistry concentration is a degree program within the Chemistry Department. Criminalistics-Chemistry Track students should consult the degree requirements for either the B.A. or B.S. degree in Chemistry. Candidates for the B.S. degree should also have a year of General Biology.

UPPER DIVISION PROGRAM:

Core Courses: Six courses are required for every student majoring in Criminal Justice. A core course requirement will not be woived for any student unless a majority of the program faculty approve. These courses are:

CRJ 301 * recommended that CRJ 301 be taken during the first quarter at FIU

CRJ 302

CRJ 303

CRJ 402

CRJ 403° recommended that CRJ 403 be taken after completion of other core courses

Area of Interest: 20 quarter hours at the 300 level or above in Criminal Justice are required for Criminal Justice majors. Only 10 quarter hours of Internship (CRJ 440) will count toward this requirement.

Specific Electives: 10 quarter hours at the 300 level or above ore required in Sociology-Anthropology and/or Psychology.

General Electives: 30 quarter hours are required. No more than 20 hours can be Criminal Justice courses. The student may choose a minor by taking 20 of the hours in any area he or she chooses.

NOTE: A student may petition to have a 100 or 200 level course taken of the lower division accepted by the odvisor to partially meet the credit requirement in the Area of Interest or Specific Electives noted above. However, the student must still earn 90 quarter hours of the 300 level or above.

NOTE: A student must complete the core courses (30 quarter hours) plus 20 additional hours in Criminal Justice in order to: (1) satisfy the Criminal Justice requirements for a dual major, or (2) obtain a second degree with a major in Criminol Justice, or (3) obtain two bachelor degrees simultaneously (assuming the requirements for two majors have been completed and certified by the appropriate academic units and a minimum of 45 appropriate quarter hours beyond the requirements of the degree have been earned).

CRIMINAL JUSTICE PROGRAM

Core Courses:		Quarter Hours	
Core Coors	, , , , , , , , , , , , , , , , , , , ,	30	
CRJ 301	The Nature and Causes of Crime	5	
CRJ 302	The Roles of Law Enforcement	5	
CRJ 303	Prosecutorial and Judicial Policy Making	5	
CRJ 401	Correctional Philosophy, Theory and Practice	5	
CRJ 402	Methods of Criminal Justice Research	5	
CRJ 403	Methods of Institutional Change	5	
Area of Int	erest: See explanation above	20	
Specific Ele	ectives: See explanation above	10	
General Ele	ectives: See explanation above	30	
		_	
		90	

CRIMINALISTICS-CHEMISTRY PROGRAM

Criminalistics-Chemistry Core Requirements:

Same as requirements for Bachelor degree in Chemistry. (Degree granted by Department of Physical Sciences).

Chemistry Electives: If the student chooses the degree in Chemistry, he should elect at least one of the following:

CHE 405 Advance	ed Spectroscopy and Malecular Structure	9
CHE 412 Modern	Analytical Chemistry	7

Internship:

A 5-10 credit internship in the laboratory of a participating criminal justice agency.

Criminal Justice Coursework:

The student should elect 15 credits of Criminal Justice courses in consultation with an advisor in the Department of Criminal Justice.

Electives:

Coursework in the behavioral and political sciences, as well as upper division coursework in the biological sciences, is recommended to total 90 quarter hours.

COURSE OFFERINGS

CRJ 300 AN OVERVIEW OF CRIMINAL JUSTICE (5) (F,W,S,SS) An overview of the agencies and processes involved in the administration of criminal justice. Interrelationships and functions of the legislature, police, prosecutor, defender, courts and corrections are examined. (Recommended for Non-Majors)

CORE COURSES:

CRJ 301 THE NATURE AND CAUSES OF CRIME (5) (F,W,S,SS) Social, cultural, behaviaral, political and economic cousative factors in the development of crime. Psychological and sociological considerations involved in criminal behavior. The role of the legislature as palicy maker in criminalizing conduct and the limits of the criminal sanction.

CRJ 302 THE ROLES OF LAW ENFORCEMENT (5) (F,W,S,SS) An analytical examination of roles of the police in the United States and other countries. The policeman as maintainer of order, protector of individual rights, enforcer, provider of non-criminal service, and social worker. Role conflict and the development of the police as a subculture. Police-Community interaction.

CRJ 303 PROSECUTORIAL AND JUDICIAL POLICY MAKING (5) (F,W,S,SS) Structure and functions of the prosecutorial and judicial systems in the United States and other countries. Role of the prosecutor, judge and defender in discretionary disposition of cases without trial. Inter-relationships between the prosecutorial and judicial system and other criminal justice agencies. The policy-making role of the oppellate judiciary in criminal law and procedure.

CRJ 401 CORRECTIONAL PHILOSOPHY, THEORY AND PRACTICE (5) (F,W,S,SS) Appraisal of correctional methods utilized in the United States and other countries. Prisons, probation, parale work-release programs, half-way houses, community-based correction program, and other techniques are analyzed.

CRJ 402 METHODS OF CRIMINAL JUSTICE RESEARCH (5) (F,W,S,SS) 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.

CRJ 403 METHODS OF INSTITUTIONAL CHANGE (5) (F,W,S,SS) 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.

ADMINISTRATIVE CONCENTRATION:

CRJ 311 INSTITUTIONAL ORGANIZATION AND ADMINISTRATION (5) (F) Analysis of the internal organizational structure and of executive roles and functions in criminal justice agencies. Examines administrative and managerial concepts underlying decision making, policy formulation, operational strategies, and coordination and control pracedures. Cases and outside research reports are used for specific analysis.

CRJ 312 MANAGEMENT OF HUMAN RESOURCES (5) (W) Analysis of criminal justice manpower input problems - recruitment, selection, placement, training, development and control at all levels. Emphasis is placed upon policy issues, research findings, and advanced techniques.

CRJ 313 PLANNING, BUDGETING AND FINANCIAL ADMINISTRATION (5) (S) Planning, budgeting and financial administration methods as applicable to criminal justice agencies are examined. Emphasis is placed on these techniques as they relate to the formulation of policies, objectives and procedures, the determination of organizational priorities, and as techniques to initiate organizational change. Case studies are developed, presented and analyzed.

CORRECTIONAL CONCENTRATION

CRJ 321 DELINQUENCY PREVENTION (5) (W) Problems of juvenile delinquency. Organization and administration of delinquency prevention programs: Police programs, juvenile courts, institutional treatment, and the use of community resources. Case analysis.

CRJ 421 PROBATION AND PAROLE (5) (F) An examination of the treatment of convicted law violators by the correctional field services before and after prison.

CRJ 422 ADMINISTRATION OF CORRECTIONAL INSTITUTIONS (5) (F) Theories and techniques of administering correctional institutions: treatment, security and custody. Social structure of the prison community and inmate social systems. Case studies.

GENERAL AND ELECTIVE COURSES

CRJ 395 CONTEMPORARY ISSUES IN CRIMINAL JUSTICE (VAR) (F,W,S,SS) Forum for unusual or special course offerings focusing on contemporary issues in criminal justice.

CRJ 405 ORGANIZED CRIME (5) (W) An in-depth examination of local, national and international organized crime and its impact upon society.

CRJ 430 CRIMINAL JUSTICE AND THE CONSTITUTION (5) (S) A study of the First, Fourth, Fifth, Sixth, Eighth and Fourteenth Amendments to the Federal Constitution as related to the administration of criminal justice.

CRJ 440 FIELD WORK AND SPECIAL PROJECTS (1-15) (F,W,S,SS) Individualized constructive work and/or observational experience in criminal justice agencies, community, organizations or special environments. Advanced counseling of student and advisor's approval required before enrollment.

CRJ 495 DIRECTED READINGS IN CRIMINAL JUSTICE (VAR) (F,W,S,SS) Extensive reading and analysis of appropriate literature under faculty supervisor.

CRJ 496 INDEPENDENT RESEARCH (VAR) (F,W,S,SS) Individually selected program of supervised study related to a specific criminal justice issue. Normally the product will be a research paper suitable for publication. Prerequisite: CRJ 402

CRJ 500 DIRECTED RESEARCH (VAR) (F,W,S,SS) Advanced research project, suitable for graduate level effort. Focus ordinarily, should be in a specialized area.

DIETETICS AND NUTRITION

The Department offers a major leading to a Bachelors degree with areas of concentration (tracks) in general dietetics and administrative dietetics, and courses in nutrition for allied disciplines or far the student who desires a working knowledge of nutrition. The Department also offers

Quarter Hours

66-68

a Master of Science degree program in Dietetics with areas of concentration in Therapeutic and Community Dietetics or Dietetic Management. The undergraduate programs are designed to assist the student gain basic practitioner understandings and skills and to achieve his or her career objectives. The graduate program prepares the student to assume leadership responsibilities in health care institutions, community health agencies, or private practice. The graduate program allows for concentration in research or field application.

UNDERGRADUATE PROGRAM

The clinical portion of the Bachelors programs is part of the Greater Miami Coordinated Undergraduate Dietetic Program, a consortium with Barry College which meets the requirements of The American Dietetic Association both for academic preparation for membership and for internship experience.

The Florida International student must make formal application at the University for the clinical portion of the programs after all prerequisite coursework is completed. Clinical courses are sequential and require two years to complete. Clinical experiences are available in several hospitals and other health agencies. A graduate of the clinical portion of the programs is eligible to take the registration examination to become a registered dietitian.

A graduate of the above program is awarded a *Bachelor of Science* degree. With special planning and advisement, a program of study leading to the Bachelor of Science degree in Dietetics and Nutrition without clinical experience may be arranged.

GENERAL DIETETICS

DEGREE: Bachelor of Science in Dietetics and Nutrition

LOWER DIVISION PREPARATION:

The student desiring to major in General Dietetics should have campleted a large portion of the following: (1) The general education requirements for the bachelors degree; (If not included in the lower division general education coursework, at least one course each in psycholagy, sociology, anthropology, economics, English composition or technical writing); (2) two courses in inorganic chemistry; (3) one course in organic chemistry; (4) one course in quantity food preparation; (5) one course in statistics; (6) one course in business management; and (7) one course in educational psychology or teaching methods.

UPPER DIVISION PROGRAM:

Required Courses:

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 dialoctic courses.

me related c	indictic courses.	
DIN 300	Orientation to Dietetics +	5
	+(Organic Chemistry must be completed before DIN 300 is take	n)
DIN 301	Nutrition and Culture (or the equivalent)	4
or		
DIN 405	Nutrition: Infancy Through Adolescence	4
DIN 310	Meal Management (or equivalent course in institutional management	nt) 4
DIN 440	Dietetics in Community Health*	7
DIN 330	Diet Therapy	3
DIN 331	Applied Diet Therapy*	6
DIN 320	Management of Dietary Systems*	3
DIN 321	Management of Dietary Systems Practicum*	6
DIN 452	Special Problems in General Dietetics	1-3
DIN 450	Dietetic Instruction and Counseling	2
DIN 441	Dietetic Management of Nutrition Programs (Advanced)*	2
DIN 442	(Applied) Dietetic Management of Nutrition Programs (Practicum)*	6
DIN 401	Nutrition II	4
DIN 410	Food Science*	4
DIN 451	Advanced Clinical Practicum in Dietetics	7
DIN 490	Seminar in Dietetics and Nutrition*	4

(Continued next page)

(Continued)

Other Requirements: Microbiology; one course in biochemistry;
one course of the 300 level ar above in physiology; plus any
lower division requirements not completed.

Recommended Electives: Selected courses in the following areas: education, statistics, social work, health science, adult education, business, anthropology, sociology.

(3-5)

ADMINISTRATIVE DIETETICS

DEGREE: Bochelor of Science in Dietetics and Nutrition

LOWER DIVISION PREPARATION:

The student desiring to major in Administrative Dietetics should have completed a large portion of the following: (1) the general education requirements for the bachelors degree; (If not included in the lower division general education coursework, at least one course each in psychology, sociology, anthropology, economics, English composition or technical writing); (2) one course in organic chemistry; (3) one course in lobor relations; (5) one course in personnel management; (6) one course in financial management; (7) one course in quantity food preparation; and (8) one course in statistics.

UPPER DIVISION PROGRAM

TER DIVISI	ON TROOKAM	Quarter Hours
Required C	ourses:	66-68
Note: Cou	rses designated below with an asterisk (*) comprise the apponent, and must be taken in the order listed. Clinical	00 00
	s are supervised by the course instructors. Clinical sta-	
	ocoted in appropriate hospitals, health agencies and	
	d service programs. Courses marked with an asterisk	
	en to students in the coordinated clinical program. Ap-	
	ses and procticum must be taken concurrently with the	
	loctic courses.	
DIN 300	Orientation to Dietetics + *	3
	+Organic Chemistry must be completed before DIN 300 is taken	•
DIN 301	Nutrition and Culture (or the equivolent)	4
or		7
DIN 405	Nutrition: Infancy Through Adolescence	4
DIN 310	Meal Management (or equivalent course	
	in Institutional Management)	4
DIN 440	Dietetics in Community Health®	7
DIN 330	Diet Therapy	3
DIN 331	Applied Diet Therapy*	6
DIN 320	Monagement of Dietary Systems*	6 3
DIN 321	Management of Dietary Systems Practicum	6
DIN 453	Special Problems in Administrative Dietetics*	1-3
DIN 450	Dietetic Instruction and Counseling	2
DIN 441	Dietetic Management of Nutrition	
	Programs (Advanced)*	2
DIN 442	(Applied) Dietetic Management of	
	Nutrition Programs (Practicum)*	6
DIN 401	Nutrition II	4
DIN 410	Food Science	4
DIN 451	Advanced Clinical Procticum in Dietetics	7
DIN 490	Seminar in Dietetics and Nutrition*	4
Other Re	equirements: Microbiology; one course at the 300	
level or al	pove in physiology plus any lower division requirements	
not compl		12
Recommen	ded Electives: Selected courses in the following ar-	
eas: educ	otion social work, health science, adult education, busi-	
	ropology and sociology.	(10-12)
		_
		90

GRADUATE PROGRAM

Admission to the Masters program is determined by an evaluation of the applicant's bachelors program. An adequate undergraduate preparation usually includes completion of the minimum requirements for membership in The American Dietetic Association, or an undergraduate major in a closely allied discipline. The graduate admission requirements of the Board of Regents must be met and are as follows: A combined score of 1000 on the Graduate Record Examination (Verbal and Quantitative Aptitude Tests), or at least a "B" average in all upper division coursework. An applicant who has graduated from the undergraduate program in Dietetics at Florida International must have earned at least the grade of "CR" (credit) in all coursework.

DIETETICS

A candidate for the Master of Science degree in Dietetics must complete a minimum of 45 quarter hours of graduate study. Thirty-three of the 45 quarter hours must be taken at Florida International. All graduate coursework must be recent enough to be relevant to the current field of dietetics.

The student's program of study, consistent with his or her career goals, should be planned in consultation with the assigned faculty advisor. The proposed program of study must be filed in the office of the Chairman of the Department by the end of the first academic quarter of full-time graduate study.

THERAPEUTIC AND COMMUNITY DIETETICS

DEGREE: Master of Science in Dietetics

A candidate for the Masters degree in Therapeutic and Community Dietetics must complete the following courses:

mig coorses	•	
		Quarter Hours
DIN 691	Research Methods in Dietetics	3
	and one of the following:	
DIN 692	Laboratory Research Methods in Nutrition and Food Science	3
DIN 693	Field Research Methods in Dietetics	3
	and one of the following:	
DIN 695	Supervised Field Study in Dietetics	5
DIN 698	Thesis in Dietetics	5
	and one of the following:	
DIN 690	Pathophysiology of Nutrition	4
DIN 520	Nutrition and Biochemistry	4
	and one of the following:	
DIN 601	Nutrition During The Life Cycle	4
DIN 610	Advanced Food Science	4
Other DIN	courses	12-14
Courses ou	itside the DIN Program	12-14
	·	_
		45

DIETETIC MANAGEMENT

DEGREE: Moster of Science in Dietetics

A candidate for the Masters degree in Dietetic Management must complete the following courses:

A candid	date for the Masters degree in Dietetic Management must complet	te the following cou
		Quarter Haurs
DIN 691	Research Methods in Dietetics	3
	and one of the following:	
DIN 692	Laboratory Research Methods in Nutrition and Food Science	3
DIN 693	Field Research Methods in Dietetics	3
	and one of the following:	
DIN 695	Supervised Field Study in Dietetics	5
DIN 698	Thesis in Dietetics	5
	and one of the following:	
DIN 610	Advanced Food Science	4
DIN 520	Nutrition and Biochemistry	4
	and one of the following:	
DIN 620	Advanced Management of Dietary Systems	4
Elective in	Advanced Fiscal or Personnel Management	4
Other DIN	courses	12-14
Courses ou	tside the DIN Program	12-14
		_
		4.5

COURSE OFFERINGS

UNDERGRADUATE

DIN 300 ORIENTATION TO CLINICAL DIETETICS (3) (F) Survey of role and responsibilities of dietitian. Legal and ethical considerations necessary for the student dietitian in clinical experiences. Educational and personal qualifications for specialization in dietetics. Prerequisite: Organic Chemistry or permission of Chairman. Clinical component: open only to a student in the coordinated clinical program.

DIN 301 NUTRITION AND CULTURE (4) (F) Nutrients and their interrelationships in reference to food habits and needs of various population groups. Introduction to the impact of culture on nutriture and study of personal food pattern development.

DIN 305 FOOD AND THE CONSUMER (4) (W) 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 laboratary included. (Recommended for non-majors)

DIN 310 MEAL MANAGEMENT AND SERVICE (4) (F) Development of skills in basic techniques of purchasing, preparation and service of food for individuals and small groups. Includes laboratory and experiences in demonstration techniques. Prerequisite or co-requisite: DIN 301.

DIN 320 MANAGEMENT OF DIETARY SYSTEMS (3) (F) Survey of various types of institutional food service systems. Will cover management concepts in planning, implementing and evaluating food service systems. Prerequisite: DIN 300 Clinical Component; open only to a student in the coordinated clinical program.

DIN 321 MANAGEMENT OF DIETARY SYSTEMS PRACTICUM (5) (F) Provides for developing the skills as listed for DIN 320. Clinical assignments will be made in several food service institutions in this area. Corequisite: DIN 320. Clinical component: open only to a student in the coordinated clinical program.

DIN 330 DIET THERAPY (3) (S) 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. Prerequisite: DIN 301 or equivalent, Physiology and Biochemistry.

DIN 331 APPLIED DIET THERAPY (6) (S) Observation and participation in dietary treatment activities. In clinical institutions, application of menu writing, translation of dietary prescription, technique of dietary instruction and diet history. Clinical component: open only to a student in the coordinated clinical program.

DIN 401 NUTRITION II (4) (F) Roles of nutrients in metabolic processes. Effects of excesses and deficiencies. Prerequisites: Organic Chemistry, Physiology and DIN 301 or equivalent.

DIN 405 NUTRITION: INFANCY THROUGH ADOLESCENCE (4) (W, S, SS) Nutrient intakes recommended for children in different age groups in respect to social, economic and physical environments. Designed to equip teachers with limited nutrition information to assess nutrient needs and develop skill in incorporating nutrition information in formal and informal learning situation.

DIN 410 FOOD SCIENCE (4) (S) Physical and chemical changes in food occurring as a result of various methods of processing, preparation, and starage of foods. Legal control, economic considerations, nutrient contributions of mass-produced foods compared with foods prepared on-site. Prerequisite: Organic Chemistry, DIN 301, DIN 310.

DIN 415 FOOD AND NUTRITION SCIENCE (4) (S) An overview of the effects of storage, processing and preparation techniques on food and its ingestion by humans. Laboratory included. Prerequisite: Background competency in Food and Nutrition. (Recommended for non-majors)

DIN 440 DIETETICS IN COMMUNITY HEALTH (7) (W) Study of community agencies available for nutrition guidance for differing age groups. Observation and participation in activities of community agencies. Prerequisite: Physiology, DIN 301. Clinical component: open only to a student in the coordinated clinical program.

DIN 441 DIETETIC MANAGEMENT OF NUTRITION PROGRAMS (2) (W) 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. A part of the clinical sequence. Advanced standing required. Six hours practicum will be taken concomittantly. Clinical component: open only to a student in the coordinated clinical component.

DIN 442 DIETETIC MANAGEMENT OF NUTRITION PROGRAMS PRACTICUM (6) (W) Assignments will be made in various community agencies and institutions for development of beginning professional level competencies in management of nutrition and food service programs. Clinical Component: open only to a student in the coordinated clinical program.

DIN 450 DIETETIC INSTRUCTION AND COUNSELING (2) (W) Motivational methods and instructional techniques will be practiced in simulation activities for development of entry level competencies. Recorders and VTR's will be used for feedback and evaluation. Advanced standing in dietetics required.

DIN 451 ADVANCED CLINICAL PRACTICUM IN DIETETICS (3-9) (S) In-depth study combining theoretical concepts and clinical experience. Learning experience will be planned cooperatively by the student, campus instructor and clinical instructor to meet individual needs and goals of the student, Prerequisite: DIN 441. Clinical component: open only to a student in the coordinated clinical program.

DIN 452 SPECIAL PROBLEMS IN GENERAL DIETETICS (1-3) (W) 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. Clinical component: open only to a student in the coordinated clinical program.

DIN 453 SPECIAL PROBLEMS IN DIETETIC ADMINISTRATION (1-3) (W) 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. Clinical component: open only to a student in the coordinated clinical program.

DIN 490 SEMINAR IN DIETETICS AND NUTRITION (3-9)* (S) Study of current dietetic and nutrition problems, and research findings. Prerequisite: DIN 440 or permission of instructor. Clinical component: open only to a student in the coordinated clinical program.

GRADUATE

DIN 500 RECENT RESEARCH IN NUTRITION (4) (S) Updating of nutrition information. Study of current nutrition research. Prerequisite: One recent course in nutrition. Taught alternate springs. Recommended for Home Economists.

DIN 501 ETHNIC INFLUENCES OF NUTRITURE AND FOOD HABITS (4) (F) Systematic study of the food habits of various cultural groups. Emphasis is placed on methodology, analysis of data, relationship of food habits to nutritional standards and corrective measures. Prerequisite: Competency in food preparation and nutrition. Recommended for Home Economists.

DIN 503 NUTRITION EDUCATION IN THE COMMUNITY (4) (F) (SS) 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. Taught in fall term alternately with DIN 505. Recommended for Home Economists.

DIN 505 FOOD, NUTRITION AND COMMUNICATION (4) (F) Covers concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis will be placed on differences in approach to communication in small groups vs. mass media. Prerequisite: Advanced standing, competency in food and nutrition knowledge. Taught in fall quarter alternately with DIN 503. Recommended for Home Economists.

DIN 520 NUTRITION AND BIOCHEMISTRY (4) (F) Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption and metabolism of carbohydrates, lipids and proteins. Prerequisite: Physiology, Biochemistry and DIN 401, Nutrition II.

DIN 530 DIET IN DISEASE PREVENTION AND TREATMENT (4) (W) Critical study of dietary treatment and regimens - historical, current, and experimental. Prerequisite: DIN 330 or equivalent. Taught every other winter term.

DIN 560 WORKSHOP IN DIETETICS AND NUTRITION (1-5) (SS) Short term intensive development of selective subject matter in dietetics, nutrition and nutrition education techniques and methods suitable for nutritionists, home economists at the graduate level.

DIN 601 NUTRITION DURING THE LIFE CYCLE (4) (5) In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and affects of deficiencies and excesses on metabolism. Prerequisites: DIN 401 or equivalent. Taught spring term alternately with DIN 610.

DIN 610 ADVANCED FOOD SCIENCE (4) (S) In-depth study of chemical and physical properties of interactive components of selected foods. Emphosis on effects of additive and methods of preparation and preservation. Prerequisite: DIN 410 or equivalent. Taught spring term alternately with DIN 601.

DIN 620 ADVANCED MANAGEMENT OF DIETARY SYSTEMS (5) (S) Emphasis on management and organizational theory. Innovative projects for the development of management competencies will be developed to meet needs of individual students. Prerequisite: Permission of instructor.

DIN 640 ADVANCED COMMUNITY NUTRITION (4) (S) In-depth study of assessment of nutriture in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and methods of delivery of dietary care. Prerequisite: DIN 441 or equivalent. Taught spring term alternately with DIN 520.

DIN 650 INDIVIDUAL STUDY IN DIETETICS (2-5) (F, W, S, SS) Further study and investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Consent of the Chairman of the Department.

DIN 690 NUTRITIONAL PATHOPHYSIOLOGY (5) (F) Systems of the body in relation to the pathological conditions allied to digestion, absorption, metabolism, and other states in which nutrition plays a part in etiology or treatment. Prerequisite: Physiology, DIN 330, DIN 401.

DIN 691 RESEARCH METHODS IN DIETETICS (3) (F) Consideration of scientific method and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization and interpretation. Prerequisite: Permission of instructor.

DIN 692 LABORATORY RESEARCH METHODS IN NUTRITION AND FOOD SCIENCE (3) (W) Laboratory application of research methods in dietetics. Prerequisite: DIN 691 and consent of department chairman.

DIN 693 FIELD RESEARCH METHODS IN DIETETICS (3) (W) Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches will be included. Prerequisite: DIN 690 and consent of department chairman.

DIN 695 SUPERVISED FIELD STUDY IN DIETETICS (5) (F, W, S, SS) Pre-planned practical experience at the professional level in an area of dietetics. Critical written evaluation by student with frequent consultation and supervision of instructor. Prerequisite: Professional competency in dietetics and permission of the Chairman of the Department.

DIN 698 THESIS IN DIETETICS (5) (F, W, S, SS) By arrangement with student's thesis committee.

HEALTH SCIENCE

The Department offers three areas of concentration (tracks) leading to the Bachelors degree in health science: health science management, health science education, and health science general studies.

DEGREE: Bachelor of Science in Health Science

LOWER DIVISION PREPARATION:

Required: an Associate of Science degree in the allied health field, or an Associate of Arts degree (upon approval of the department), or the equivalent.

Recommended: an applicant should have academic preparation in the following fields: economics, college algebra, accounting, social sciences, introduction to statistics.

Quarter Hours

UPPER DIVISION PROGRAM:

Core Course	es: required of every health science major.	20
HSM 304	Health and Sacial Service Delivery Systems	5
HSM 400	Management for the Health Professions	5
HSM 401	Information Systems	5
HSM 403	The Team Approach to Service Delivery	3
Electives: in	addition to the required courses for all health science	
majors and	the required care courses in the student's area of	
concentrati	on (track), electives may be selected from any depart-	
ment within	the University. Electives in Health Science are recom-	
mended.		

HEALTH SCIENCE MANAGEMENT TRACK

This program provides in-depth training in health services and business administration, including suppartive courses in the liberal arts and sciences, and leads to a Bachelor of Science degree. The program is designed to prepare the student to begin a career in health administration at the middle-management level in community hospitals, university medical centers, state and federal health agencies, nursing homes, and voluntary health agencies. The student desiring to proceed directly into graduate study can seek admission into the Health Management Program leading to a Master of Science in Management-Health Care offered by the School of Business and Organizational Sciences at Florida International. Refer to the appropriate section of this catalog.

Core Courses: Required Track Cours	es:	Quarter Hours 20 45
1. HSM 304 Health and	Social Service Delivery Systems	5
HSM 400 Manage	ment for the Health Professions	5
HSM 401 Informat	ion Systems	5
HSM 403 The Tear	m Approach to Service Delivery	3
HSM 480 Issues ar	nd Trends in Health Care Delivery	5

(Continued on next page)

(Continued)

HSM 495 Legal Aspects and Legislation in Health Care	5	
2. HCM/HSM 513 Management Analysis in Health Care Institutions	5	
HCM/HSM 514 Health Care Systems	5	
HCM/HSM 517 Human Resource Management in the Health Care Field	5	
HCM/HSM 518 Health Care Financial and Accounting Management	5	
Electives: may be selected from any department in the University.		22
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		90

HEALTH SCIENCE EDUCATION TRACK

This program is designed for the student interested in the educational processes within health care organizations, and does not require clinical courses. It is not intended to prepare the student for certification as teachers.

		Quarter Hours
Care Caurses:		20
Required Trac	k Courses:	37
1. HSM 304 H	tealth and Social Service Delivery Systems	5
HSM 400	Management for the Health Professiona	5
HSM 401	Information Systems	5
HSM 403	The Team Approach to Service Delivery	3
HSM 480	Issues and Trends in Health Care Delivery	5
EVO 409	Instructional Strategies and	
	Evaluation in Vocational and	
	Technical Education	5
2. EVO 504 E	ducational Media	5
EAD 519 F	Program Development in Adult Education;	
	Community Slant Instructional Level	4
Electives: mo	y be selected from any department in the Univer-	
sity.		33
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		90

HEALTH SCIENCE GENERAL STUDIES TRACK

This program provides for the student who has completed a two-year professional program, and who desires little or no additional clinical training. The student may largely design his or her own program of study to meet particular career needs in consultation with a faculty advisor.

		Quarter Hours
Core Caurses:		20
Required Trac	k Courses:	35
HSM 304	Health and Social Service Delivery Systems	5
HSM 390	Individual Study	10
HSM 400	Management for the Health Professions	5
HSM 401	Information Systems	5
HSM 403	The Team Approach to Service Delivery	5
HSM 480	Issues and Trends in Health Care Delivery	3
Electives:		35
		_
		90

COURSE OFFERINGS

HSM 304 HEALTH AND SOCIAL SERVICE DELIVERY SYSTEMS (5) Presents the history of, and the fundamental concepts involved in the health and social service delivery system. Includes a review of international health care systems, relevant legislation and federal, state, and local health and social service programs.

HSM 390 INDIVIDUAL STUDY (1-10) This course is designed to allow students an opportunity to do an indepth research or action-oriented project under faculty supervision.

HSM 400 MANAGEMENT FOR THE HEALTH PROFESSIONS (5) Fundamentals of management underlying the solution of problems of organization and operation of health programs.

HSM 401 INFORMATION SYSTEMS (5) Fundamental concepts of statistics, research design and data processing as it relates to health programs.

HSM 403 THE TEAM APPROACH TO SERVICE DELIVERY (3) Various models for the team delivery of health and social services will be described and analyzed. The rales and functions of related service professionals will be identified.

HSM 480 ISSUES AND TRENDS IN HEALTH CARE DELIVERY (5) Analysis of important issues, trends, and problems affecting health core delivery in the U.S. Prerequisite HSM 304 or permission of instructor.

HSM 481 CONSUMER HEALTH AND SAFETY EDUCATION (5) Includes survey of the problems and products influencing the consumer of health services, and study of solutions to prevent and correct fraud.

HSM 483 PEOPLE, POWER AND HEALTH (5) The historical, psychological, and philosophical rotional for consumer participation in health settings is explored. Appropriate roles for consumers in the decision making process are developed.

HSM 484 FAMILY HEALTH CENTERS: AN OVERVIEW (3) Historical review of Family Health Centers. Considers these centers as an olternative in the delivery of health care. Utilizes lectures and field trips.

HSM 495 LEGAL ASPECTS AND LEGISLATION IN HEALTH CARE (5) A study of how the law affects health care in the public and private sectors. The course is designed to aid professional and allied health personnel to identify legal issues and utilize preventive measures to ovoid legal entanglements. Formal lectures and seminar porticipation will be utilized.

For course description of 500 and 600 level courses see School of Business and Organizational Science.

HCM/HSM 513 MANAGEMENT ANALYSIS IN HEALTH CARE INSTITUTIONS (5)

HCM/HSM 514 HEALTH CARE SYSTEMS (5)

HCM/HSM 515 HEALTH PLANNING TECHNIQUES (5)

HCM/HSM 518 HEALTH CARE FINANCIAL AND ACCOUNTING MANAGEMENT (5)

HCM/HSM 680 PROBLEM SOLVING IN HEALTH MANAGEMENT (5)

HCM/HSM 681 HEALTH RESEARCH AND ANALYSIS (5)

HCM/HSM 682 HEALTH DELIVERY SYSTEMS (5)

HCM/HSM 683 THE HEALTH ENVIRONMENT (5)

HCM/HSM 684 HEALTH CARE FACILITIES ORGANIZATION AND MANAGEMENT (5)

HCM/HSM 685 HOSPITAL ORGANIZATION AND ADMINISTRATION (5)

HCM/HSM 687 SEMINAR IN HEALTH MANAGEMENT (1-5)

HCM/HSM 688 FINANCE AND MARKETING OF HEALTH SERVICES (5)

HOME ECONOMICS

The Program offers a major in home economics for the student who desires to work in home economics and related fields, but who does *not* plan to teach in the secondary school. The Program offers three areas of specialization: General Home Economics and Consumer Management; Food and Nutrition; and Family and Child Development. The courses in family and child development, food and nutrition, and home management and family economics are affered in the School of Health and Social Services for home economics majors, home economics education majors, and for students in other programs to take as electives.

DEGREE: Bachelor of Science in Home Economics

LOWER DIVISION PREPARATION:

Required: general education requirements for Associate of Arts degree

Recommended: courses in psychology, sociology, anthropology, chemistry, economics, art, and home economics.

UPPER DIVISION PROGRAM:

GENERAL HOME ECONOMICS AND CONSUMER MANAGEMENT

This specialization includes a core of home economics courses for personal and professional use and allows a wide choice of advised electives. It is intended to prepare the student to work in industry and business in such jobs as a professional home service representatives consumer consultant, or in product demonstration work:

	Quarter Hours
Required Courses:	75
Clothing and Textile Courses	15
Fomily and Child Development Courses	15
Food and Nutrition Courses	15
Housing Courses	15
Monagement and Family Economics Courses	15
Advised Electives:	15
	90

FOOD AND NUTRITION

This program provides professional preparation for the person desiring career opportunities related to food and nutrition but who does not wish to become a dietitian. Possible careers include food services manager, and work in consumer and food and nutrition services.

	Quarter Hours
Required Courses:	80
Core Home Economics Courses	20
Food and Nutrition Courses	40
Related Courses	20
Advised Electives:	10
	90

FAMILY AND CHILD DEVELOPMENT

The student in this program is prepared to enter professions which require a breadth of knowledge related to family and child development such as day care, parent education, nursery teacher, employee in federal and state agencies serving the family.

Counter Hours

	Qualiter Flours
Required Courses:	80
Core Home Economics Courses	20
Family and Child Development Courses	40
Related Courses	20
Advised Electives:	10
	_
	90

COURSE OFFERINGS

HOME MANAGEMENT AND FAMILY ECONOMICS

HMF 306 CONSUMER RESOURCES MANAGEMENT (3) Evoluction of information needed by consumers to make wise spending decisions, including sources of consumer help, information and protection, pertinent legislation, and application of money management principles.

HMF 406 MANAGEMENT OF PERSONAL AND FAMILY RESOURCES (3) Application of management principles to problems related to personal and family living involving human and non-human resources. Includes human development problems observed in the community.

HMF 506 INDEPENDENT LIVING FOR THE HANDICAPPED (5) Designed to enable home economists to work with people with handicops. Experience provided in adopting home management skills to the needs of the handicapped homemaker. Prerequisite: HMF 406 or equivolent.

HMF 595 FIELD EXPERIENCE IN HOME MANAGEMENT (3-5) Consideration of management decisions made by family members of different ethnic groups and/or life styles, and the influence of these decisions on family relationships. Includes field experience. Prerequisite: HMF 306, 406 or equivalent.

HMF 596 INDEPENDENT STUDY IN HOME MANAGEMENT AND FAMILY ECONOMICS (3-5) Individually selected program of supervised study in a specific area of Home Management or Family Economics. Prerequisite: Permission of Instructor.

FAMILY AND CHILD DEVELOPMENT

FCD 301 CHILD DEVELOPMENT: INFANCY AND EARLY CHILDHOOD (5) Systematic study of total developmental process in the child from conception through early childhood, emphasizing the effects of home and family environment. Includes observational experiences. Prerequisite: PSY 330 or equivalent.

FCD 401 CHILD DEVELOPMENT: LATER CHILDHOOD (5) Extension of the study of developmental patterns of children with emphasis an physical, intellectual, social and emotional maturation through adolescence. Analysis of environmental and home influences.

FCD 405 THE FAMILY LIFE CYCLE (3) Study of the characteristics, problems, potentials, and adjustments unique to the various stages of the family life cycle; including ethnic and cultural influences on family life patterns.

FCD 501 ADVANCED STUDIES IN CHILD DEVELOPMENT (5) Survey of current literature an selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisite: FCD 301, 401, or equivalent.

FCD 505 FAMILY DEVELOPMENT (5) The dynamics of family interaction and structure, including analysis of sacioecanamic and cultural influences, crisis producing situations, and current issues and trends affecting the family unit.

FCD 595 HUMAN DEVELOPMENT PRACTICUM (2-5) Experience in abserving and warking with individuals in one or more phases of the human life cycle. Students may select a day care center, public school, nursing hame, haspital, ar other community service agency. Prerequisite: FCD 301, 401, 405; or equivalent.

FCD 596 INDEPENDENT STUDY IN FAMILY AND CHILD DEVELOPMENT (3-5) Individually selected program of supervised study in a specific area of Family and Child Development, Prerequisite: Permission of Instructor.

MEDICAL TECHNOLOGY

The program offered by the Department provides opportunities for the student to learn the scientific principles which are basic to the development, performance, evaluation, and control of laboratory tests as a medical technologist in health evaluations and patient management.

The program is approved by the National Accrediting Agency of Clinical Laboratory Sciences, the American Medical Association, and the American Society of Clinical Pathologists. Graduates of the program are eligible to apply for examination and certification by the Registry of Medical Technologists as M.T. (A.S.C.P.) and for licensure as a Technologist by the State of Florida.

Admission to the program is a prerequisite for enrolling in any course of the Department. One class of students is admitted each year to begin the program in the Fall Quarter. Entrance to the Senior Practicum depends upon satisfactory evaluations of the student's record by the program faculty and the affiliated health care agency.

DEGREE: Bachelor of Science in Medical Technology

LOWER DIVISION PREPARATION:

The student seeking admission to the program should have: (1) completed 90 quarter hours (60 semester hours) in an accredited two ar four year institution; (2) completed all or most of the general education requirements for the bachelors degree; (3) a cumulative grade point average of 2.5 (an a scale of 4.0) or the equivalent; (4) a minimum of a "C" grade in each required science course; and (5) completed the following preparatary courses: two semesters of general chemistry with laboratory, two semesters af arganic chemistry with laboratory, two semesters of physics with laboratory, and two semesters of pre-calculus mathematics (callege algebra or trigonometry).

If an alternate program was completed, such as CLEP examinations, the sophomore level science course with laboratory must have been taken to demanstrate technical skill. Such courses may be taken elsewhere, or at Florida International, *before* the student will be admitted to the program.

UPPER DIVISION PROGRAM:

The fallowing caurses must be completed *prior* to completion of the Medical Technology Program, and may either precede, at be taken concurrently, with specific phases of the program: general microbiology including laboratory, quantitative analysis including laboratory, immunology, biochemistry (laboratory is elective).

The student wha presents "life experience" and/or training through a pragram not recognized by the appropriate university regional or professional accrediting association, may request to take a proficiency examination. A satisfactory scare will be accepted as equivalent to the Juniar Teaching Laboratories for which he is registered.

The Medical Technology Lectures and the Hospital Practicum are required of all students completing the program. The student who has completed the Medical Laboratory Technician Training (M.L.T.) should register for the special Teaching Laboratory courses designed to build upon his or her pre-existing skills: MDT 411, MDT 412, MDT 413, and MDT 414.

Quarter Hours

Required Co	urses:			81-86
,	Junior Year			
Fall Quarter			14(13)	
MDT 401	Clinical Hematology	2	` '	
MDT 401L	Clinical Hematology Laboratory	3		
or	ammed remaining, according,			
MDT 411L	Directed Study in Hematology (far M.L.T.)	2		
MDT 471	Hematology Correlations	2		
BSC 310	Microbiology Lectures and Laboratory	7		
	, , , , , , , , , , , , , , , , , , , ,			
Winter Quai	rter		(12-11)	
MDT 403	Clinical Microbiology	2		
MDT 403L		3		
or	amma maranagy according			
MDT 413L	Directed Study in Clinical Microbiology (for M.L.T.)	2		
MDT 473	Microbiology Correlations	2		
BSC 376	Immunology	5		
Spring Quar	•		15(14)	
MDT 402	Blood Banking and Serology	2	15(14)	
MDT 402L	Blood Banking and Serology Laboratory	3		
or	blood ballking one colology tabolatory	-		
MDT 412L	Directed Study in Blood Banking			
71120	and Serology (for M.L.T.)	2		
MDT 472	Blood Banking and Serology Correlations	2		
MDT 375	Medical Parasitology	3		
CHE 312	Quantitative Analysis (Lecture and laboratory)	5		
0				
	Senior Year			
Fall Quarter			14(12)	
MDT 404	Clinical Chemistry Methods	4	(. – /	
MDT 404L	Clinical Chemistry Laboratory	4		
or	,			
MDT 414L	Directed Study in Clinical Chemistry (for M.L.T.)	2		
MDT 474	Clinical Chemistry Correlations	2		
MDT 483	Advanced Microbiology	3		
MDT 551	Seminar I	1		
Winter Qua	rter		17	
MDT 451L	Practicum A	6	• •	
MDT 482	Advanced Hematology	3		
MDT 485	Laboratory Statistics and Quality Control	2		
MDT 552	Seminar II	1		
BSC 376	Biochemistry (Lecture only required)	5		
Spring Quar		-	14	
MDT 452L	Practicum B	6		
MDT 481	Advanced Chemistry	3		
MDT 484	Laboratory Management	2		
MDT 553	Seminar III	ī		
MDT 525	Individualized Study	2		
Electives:		Ī		4-9
210011103.				
				90
				70

COURSE OFFERINGS

MDT 306 LABORATORY QUALITY CONTROL, SAFETY, AND INSTRUMENT MAINTENANCE (5) (S) 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.

MDT 307 MANAGEMENT PROCEDURES FOR LABORATORY EMPLOYEES (2) (SS) Job descriptions, solary 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 loboratory experience.

MDT 375 MEDICAL PARASITOLOGY (3) (S) Classification, morphology and life cycles of medically significant parosites. Emphasis is an microscopic identification, specimen preservation, and infection control. Lecture and laboratory.

MDT 401 CLINICAL HEMATOLOGY (2) (F) Technical problems involving Hematology, Coagulation, Urinalysis, and Clinical Microscopy. Microscopic identification of normal and abnormal findings. Pitfalls and problems.

MDT 401L CLINICAL HEMATOLOGY LABORATORY (3) (F) Laboratory to accompany MDT 401.

MDT 402 BLOOD BANK AND SEROLOGY (2) (S) Diagnostic serological studies for venereal disease and other infections. Blood grouping and compatibility testing. Irregular antibody techniques. Paternity identification. Transfusion problems associated with pregnancy. Immunology prerequisite.

MDT 402L BLOOD BANK AND SEROLOGY LABORATORY (3) (S) Loboratory to occompony MDT 402

MDT 403 CLINICAL MICROBIOLOGY (2) (W) Diagnostic microbiological procedures. Major organisms anticipated by body site from which specimen is obtained. Choice of media and biochemical tests for identification. Recognition of normal flora. Special procedures and anaerobic organisms and fungi. General Microbiology prerequisite. Immunology co-requisite.

MDT 403L CLINICAL MICROBIOLOGY LABORATORY (3) (W) Laboratory to accompany MDT 403

MDT 404 CLINICAL CHEMISTRY METHODS (4) (F) Medical laboratory procedures for analysis of carbohydrotes, proteins, lipids, enzymes, electrolytes. Renal and liver function profiles. Basic instrumentation. Automated analysis with emphasis on continuous flow. Quality control. Credit for all required chemistry lectures and laboratories except Biochemistry are prerequisite.

MDT 404L CLINICAL CHEMISTRY LABORATORY (4) (F) Laboratory to accompany MDT 404

MDT 411L DIRECTED STUDY IN HEMATOLOGY (2) (F) Selected laboratory techniques to accompany MDT 401 for MLT.

MDT 412L DIRECTED STUDY IN BLOOD BANKING AND SEROLOGY (2) (S) Selected laboratory techniques to accompany MDT 402 for MLT.

MDT 413L DIRECTED STUDY IN CLINICAL MICROBIOLOGY (2) (W) Selected laboratory techniques to accompany MDT 403 for MLT.

MDT 414L DIRECTED STUDY IN CLINICAL CHEMISTRY (2) Selected loboratory techniques to accompony MDT 404 (for M.L.T.)

MDT 451L and 452L PRACTICUM A AND B (6) (F, W, S,) Hospital laboratory experience. Two quarters required. Rotation arranged to include 2 to 3 weeks in each of nine departments. Departmental rotation modified for students with life experience to meet needs or special interest. Rotation will be arranged through the hospital laboratory director and MDT education coordinator. All pre-practicum courses must be completed before admission to hospital rotation.

MDT 471 HEMATOLOGY CORRELATIONS (2) (F) Present diseases associated with abnormal findings in laboratory tests performed in hematology, coagulation, urinalysis, and clinical microscopy. Assist in correlating two or more laboratory procedures which might reinforce the likelihood of specific diseases being identified by laboratory methods.

MDT 472 BLOOD BANK AND SEROLOGY CORRELATIONS (2) S) Laboratory identification of venereal diseases. Blood Bank regulations in protection of donor and recipient. Blood component therapy selection for specific conditions. Problems of the patient immunized through transfusion therapy.

MDT 473 MICROBIOLOGY CORRELATIONS (2) (W) Medical ospects of infections caused by bocterial, viral, rickettsial, and mycotic pathogens. In vivo and in vitro actions of antimicrobials. Hospital infection control.

MDT 474 CLINICAL CHEMISTRY CORRELATIONS (2) (F) Biochemical tests used in diagnosis and treatment of metabolic disorders. Corbohydrate and protein metabolism, acid-base balance, enzymes, testing for organ function.

MDT 481 ADVANCED CHEMISTRY (3) (S) Lectures and loboratory. Specialized techniques. Steroid Chemistry, electrophoresis. Radio-immune assay. Instrumentation. Automation. Seniors only.

MDT 482 ADVANCED HEMATOLOGY (3) (W) Lectures and laboratory. Bone marrows, Automated hematology. Special problems in hematology and coogulation. Blood Bank techniques for the problem crossmatch, Seniors only.

MDT 484 LABORATORY MANAGEMENT (2) (S) Personnel handling, laboratory records, equipment ond reagent purchosing, laboratory computerization, quality assurance programs, work-load recording programs, scheduling, and methods of laboratory self-evaluation. Seniors only.

MDT 485 LABORATORY STATISTICS AND QUALITY CONTROL (2) (W) (To be developed.)

MDT 525 INDIVIDUALIZED STUDY (2-5) (F, W, S) An opportunity to study a specific problem or laboratory area in depth. Seniors only.

MDT 551, 552, 553 SEMINAR I, II, AND III (1) (F, W, S) Three quorters are required. Preparation and presentation of literature review and individualized projects. Instructional methods. Supervisory techniques. Seniors only.

NURSING

The Department Program prepares registered nurses academically and clinically to expand the nursing role in the practice of nursing. Emphasis is on professional commitment, community involvement, and preventive health care.

NOTE: Admission requirements and curriculum are under study and may be revised. Thus the student should consult with his or her advisor before selecting courses.

DEGREE: Bachelor of Science in Nursing

LOWER DIVISION PREPARATION:

Requirements: (1) graduation from a Diploma or Associate Degree Nursing Program; (2) current licensure as a registered nurse; and (3) at least 45 quarter hours (30 semester hours) of the general education course work required for the bachelors degree.

Remark: examinations to validate nursing knowledge may be given.

UPPER DIVISION PROGRAM:

		Quarter Hours
Required co	urses:	30
NUR 420	Nurses' Role in the Process of Change	5
NUR 440	Individual Study	5
NUR 450	Advanced Clinical Concepts	10
NUR 460	Community Health Nursing	10
Nursing Ele	ctives:	20
Interdiscipli	nary and Related Courses:	20
Free Elective	es:	20
		_
		90

Remark: All general education requirements must be met to be eligible for the Bochelors degree. In addition to the required and elective nursing courses, areas of concentration may be selected as electives: anthropology, community affoirs, education, health management, international affairs, psychology, philosophy and religion, and sociology.

NUR 350 NURSING IN AN EVOLVING HEALTH CARE SYSTEM (5) Analysis of current trends and issues related to the evolution of nursing and nursing roles in the health care delivery system. Nursing Elective. Open to non-majors.

NUR 401 DYNAMICS OF NURSE-CLIENT INTERACTION (5) Analysis of nurse-client interactions with emphasis on theoretical concepts. Nursing Elective. Prerequisite: Registered Nurse or permission of instructor.

NUR 406 EVALUATION OF NURSING PRACTICE (5) A broad overview of the evaluation process in nursing practice for improving the quality of potient care. Nursing Elective.

NUR 420 NURSES' ROLE IN THE PROCESS OF CHANGE (5) Examination and application of the change process, and the use of group dynomics, leodership roles, and the research process.

NUR 440 INVESTIGATION OF NURSING PROBLEMS (5) Promotes critical thinking and independence, and encourages the application of the problem-solving process in an action-oriented or research project in nursing. Prerequisites: NUR 420. For Nursing Mojors only.

NUR 450 ADVANCED CLINICAL CONCEPTS (10) Psycho-social and physical assessment of the health status of individuals; teaching and planning for heatth core in collaboration with other health team members. Supervised clinical experiences in a variety of settings. For Nursing Majors only. Senior standing. Recommended preparation: BSC 451.

NUR 460 COMMUNITY HEALTH NURSING (10) Basic principles of community health focusing on acquisition of knowledges, attitudes, and skills needed to promote wellness in the individual, family, and community. Supervised clinical experiences in a variety of settings. For Nursing Majors anly. Senior standing.

NUR 501 CRISIS INTERVENTION (5) Exploration of the current theories of crisis, the process of resolution, and the methodology of intervention. Nursing Elective. Open to non-majors. Senior level.

NUR 502 INTERNATIONAL DIMENSIONS OF NURSING AND HEALTH CARE (5) Analysis of forces that affect health care in any country with emphasis an nursing practice and education. Nursing Elective. Open to non-majors.

NUR 503 FIELD STUDY: INTERNATIONAL NURSING (5-10) On-site study of health care, nursing practice and education in another country. Registration by permission of instructor. Nursing Majors only. Recommended preparation: NUR 502.

NUR 504 ISSUES AND PROBLEMS IN NURSING ADMINISTRATION (5) Application of principles to current issues and prablems in nursing administration occurring with frequency in health care settings. Nursing Elective, Open to nurses with administrative experience.

PHYSICAL THERAPY

The Department offers a program of study designed to develop the student's professional understandings and skills that will be utilized in evaluating the need for and implementing programs to prevent or therapeutically deal with physical functional loss related to injury or disease processes. The primary emphasis of prevention and treatment is on the neuromusculoskeletal, pulmonary, and cardiovascular systems. Through courses, laboratories, and clinical experiences, the student becomes skilled in evaluation, care and understanding of patients, the organization and administration of physical therapy services, community health care delivery systems, and research techniques.

Graduotes of the program are prepared to function professionally in direct patient care, administration, consulting or research at a facility on the community, state, or national levels.

In addition to meeting the general requirements for admission to the University, an applicant must apply for admission to the Physical Therapy Program. Since there is more demand for admission to the Program than can presently be met, a student who is admissible to the University may not be selected for admission to the Physical Therapy Program. A personal interview is required.

DEGREE: Bochelor of Science in Physical Therapy

LOWER DIVISION PREPARATION:

Required Courses: at least 90 quarter hours (60 semester hours) of acceptable college credit; at least one academic year of science coursework (with laboratory) in these areas; biology, chemistry, physics and psychology; a minimum grade average of "C" in preparatory coursework; completion of pre-professional courses.

Quarter Hours

UPPER DIVISION PROGRAM

Required Co	urses:			120-123
	Junior Yea	r		
Fall Quarter			16	
BSC 355	Human Gross Anatomy	4		
BSC 355L	Human Gross Anatomy Lab	2		
BSC 350	Human Physiology I	4		
BSC 350L	Human Physiology Lab I	1		
PHT 311	Kinesiology I	3		
PHT 330	Principles of Pharmacalogy	2		
Winter Quo	rter		16	
BSC 356	Human Gross Anatomy	4		
BSC 356L	Human Gross Anatomy Lab	2		
BSC 351	Human Physialogy II	4		
BSC 351L	Humon Physiology Lab II	1		
PHT 312	Kinesialogy II	3		
PHT 352	Basic Therapeutic Skills	2*		

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(Continued)			
Spring Que	arter	20	
BSC 357	Neuroscience	5	
PHT 320	Principles of Pathology	4	
PHT 323	Musculoskeletal Evaluation and Lab	6	
PHT 353	Therapeutic Exercise	2	
PHT 333	•	1	
BSC 357L	·	2	
Summer Q	uarter	9	
	Prosthetics and Orthotics	3	
PHT 354		2	
PHT 334		4	
	Senior Year		
Fall Quarte	• • • • • • • • • • • • • • • • • • • •	24	
PHT 418	Clinical Medicine	3	
PHT 344	Dynamics of Patient-Therapist Relationship	2*	
PHT 314	Orthopedic Surgery	5	
PHT 317	Clinical Orthopedics	3	
PHT 415	Neurology	3	
PHT 417	Clinical Neurology	2*	
PHT 425	Evaluation of the Developing Child	2	
PHT 435	Clinical Clerkship III	4	
Winter Qu	· · · · · · · · · · · · · · · · · · ·	23	
PHT 416	Electradiagnasis	4*	
PHT 426	-	2	
PHT 456	The state of the s	6*	
PHT 436	, , ,	3	
PHT 446	Community Medicine	3	
PHT 447	Organization and Administration	5	
Spring Qu	•	12-15	
PHT 437	Internship	10	
PHT 407	Independent Study	2-5	
7111 407	independent stody		
			120-123
0 T . L			120-123

*To be developed

(Continued)

COURSE OFFERINGS

PHT 310 APPLIED KINESIOLOGY (5) (W) A course in kinesialogy that provides learning experiences to develop skills in palpation, goniometry, manual muscle testing and reflex testing of normal subjects. For Occupational Therapy students.

PHT 311 KINESIOLOGY I (3) (F) A study of the anatomical, physiological and biomechanical principles as they relate to bady movement, coverage of upper extremity.

PHT 312 KINESIOLOGY II (3) (W) An analysis of movement of the extremities back and normal human gait through self-directed learning packages and lecture-discussion sessions.

PHT 314 ORTHOPEDIC SURGERY (5) (SS) Multimedia lectures and patient case studies presented by physicians covering the orthopedic evaluation, surgical and non-surgical management of orthopedic patients.

PHT 317 CLINICAL ORTHOPEDICS (3) (SS) Correlated with Orthopedic Surgery (PHT 314), application of physical therapy evaluation, treatment and management procedures are made to patients referred to physical therapists by physicians.

PHT 323 MUSCULOSKELETAL EVALUATION (6) (5) Laboratory experiences in measuring and recording the physical status of the musculoskeletal system using the manual means of palpatian, movement, muscle strength testing and ganiometry.

PHT 324 PROSTHETICS AND ORTHOTICS (3) (SS) A presentation of the biomechanics, anatomy, and appliances necessary to the evalution, prescription, fabrication and use of prosthetic and arthotic devices.

PHT 333 CLINICAL CLERKSHIP I (1) (S) Supervised clinical experience within the local community designed to afford the student an ever enlarging view of Physical Therapy Departments and their services with ever increasing responsibility of the student for the care of patients.

PHT 334 CLINICAL CLERKSHIP II (4) (SS) Extension of PHT 333

PHT 352 BASIC THERAPEUTIC SKILLS (2) (W) To be developed.

PHT 353 THERAPEUTIC EXERCISE (2) (S) A presentation of the traditional therapeutic exercise regimens and rationale and the use of exercise apparatus in patient treatment.

PHT 354 REHABILITATION (2) (SS) A presentation of the causes, functional evaluation and interpretation, treatment program planning and assistive appliances necessary to the total treatment of the severely physically disabled.

PHT 407 INDEPENDENT STUDY (2-5) (S, SS, F) (By permission of Physical Therapy Faculty). The student will select a particular aspect of physical therapy or a related field for in-depth independent study.

PHT 415 NEUROLOGY (3) (F) To be developed

PHT 416 ELECTRODIAGNOSIS (4) (F) To be developed

PHT 417 CLINICAL NEUROLOGY (2) (F) To be developed

PHT 425 EVALUATION OF THE DEVELOPING CHILD (2) (F) To be developed

PHT 426 RESEARCH METHODS AND DESIGN (2) (W) An introduction to research theory and methods; collection and analysis of data and methods of presentation and interpretation.

PHT 435 CLINICAL CLERKSHIPS III (4) (F) Extension of PHT 333

PHT 436 CLINICAL CLERKSHIPS IV (3) (W) Extension of PHT 435

PHT 437 CLINICAL INTERNSHIP (9) (S) Supervised full-time clinical experience design to afford the student the apportunity to gain experience in the total care of patients, the administration and supervision inherent in a Physical Therapy Department, and experience in his chosen area of specialization.

PHT 446 COMMUNITY MEDICINE (3) (S) Principles of public health and preventative medicine with emphasis on cantemporary health problems. Taking an analytical look at the issues or constraints on private medicine and public health in securing resources to cope with the community health problems and problems of the articulation between these facilities.

PHT 447 ORGANIZATION AND ADMINISTRATION (5) (S) A didactic course designed to provide learning experiences in the design and operation of various types of physical therapy departments.

PHT 320 PRINCIPLES OF PATHOLOGY (4) (S) A study of the systemic and specific body tissue responses to disease and trauma.

PHT 330 PRINCIPLES OF PHARMACOLOGY (variable) (F) A diagnostically oriented introduction to the generic families, actions, side effects, indications, and contraindications of drugs.

PHT 344 DYNAMICS OF PATIENT-THERAPIST RELATIONSHIPS (2) (F) The components of the physical therapist-patient relationship, implications of various diagnases, and the use of self as it relates to physical therapy treatment.

PHT 456 NEUROPHYSIOLOGIC TECHNIQUES (6) (W) To be developed

OCCUPATIONAL THERAPY

The department offers a program of study designed to develop the student's professional understandings and skills that will be needed to assist others gain or restore their adaptive skills and performance capacity. Special attention is given to those factors which serve as impediments to the individual's ability to function effectively as well as to those factors which promote, influence, or enhance performance.

Program groduates are prepared to function professionally in hospitals and clinics, rehabilitation facilities, long-term care facilities, extended care facilities, sheltered workshops, and community agencies.

Besides meeting the requirements for admission to the university, an applicant must give evidence of general physical fitness and emotional stability. A personal interview is required.

DEGREE: Bachelor of Science in Occupational Therapy

LOWER DIVISION PREPARATION:

Required courses: one course in biology, one course in chemistry, one course in sociology, one course in basic design, one course in zoology, one course in mathematics, and two courses in psychology.

UPPER DIVISION PROGRAM:

_	TTER DIVISIO	N PROGRAM:			Quarter Hours
	Required Ca	urses:			127
	•	Junior Year			
	Fall Quarter			20	
	OCT 300	Introduction to Occupational Therapy	3		
	BSC 355	Human Gross Anatomy	4		
	BSC 355D	Human Gross Anatomy Lab	ī		
	BSC 372	Intermediate Human Physiology	5		
	BSC 372L	Intermediate Human Physiology Lab	2		
	OCT 315	Weaving	4		
	OCT 325	Weaving-Therapeutic Analysis	1		
	Winter Quar			20	
	BSC 356	Human Gross Anatomy	4	20	
	BSC 356D	Human Gross Anotomy Lab	1		
	PHT 310	Applied Kinesiology	5		
	OCT 316	Minor Crafts	4		
	OCT 326	Minor Crafts-Therapeutic Analysis	1		
	PSY 360	Theories of Personality	5		
	Spring Quar	ter		20	
	BSC 357	Neuroscience	5	20	
	BSC 357L	Neuroscience Lab	1		
	PSY 461	Abnormal Psychology	5		
	OCT 320	Pathology	2		
	OCT 330	Physical Disability Theory	5		
	OCT 335	Principles of Practice	2		
		Senior Year	-		
	Fall Quarter	Semon rear		17	
	TEY 320	Technology for Occupational Therapy	5	17	
	FIA 361	Ceramics	5		
	OCT 420	Psychiatric Occupational Therapy	5		
	OCT 432	Disability Evaluation I	2		
	Winter Quar		-	18	
	OCT 421	Psychiatric Occupational Therapy Theory	5	10	
	OCT 431	Physical Disability Theory	5		
	OCT 450	Developmental Theory	5		
	OCT 433	Disobility Evaluation II	3		
		ummer Quarters	3	0.4	
	OCT 460	Field Work Experience		24	
	OCT 461	Field Work Experience	12		
		rieid work experience	12		
	Fall Quarter OCT 410	0	_	8	
		Organization and Administration	5		
	OCT 440	Rehabilitation Seminar	3		
		juarter hours of electives are taken during the			
	second Fall (Quarter of the Senior Year.			5
					_
					132

COURSE OFFERINGS

OCT 300 INTRODUCTION TO OCCUPATIONAL THERAPY (3) (F) History and development of the profession. Philosophy of treatment.

OCT 315 WEAVING (4) (F) The study of loom and non-loom weaving techniques.

OCT 316 MINOR CRAFTS (4) (W) Study of man's creative expression through crafts.

OCT 320 PATHOLOGY (2) (S) Brief review of organ systems, primary diseases that affect each organ with specific emphasis on the disabilities that would result from disease. Prerequisites: Anatomy, physiology.

OCT 325 WEAVING-THERAPEUTIC ANALYSIS (1) (F) Therapeutic analysis.

OCT 326 MINOR CRAFTS-THERAPEUTIC ANALYSIS (1) (W) Therapeutic analysis.

OCT 330 PHYSICAL DISABILITY THEORY (5) (S) The study of occupational therapy as related to physical disabilities. Development and status of current treatment techniques. Lecture and Lab. Prerequisites: Anatomy, physiology, kinesiology.

OCT 335 PRINCIPLES OF PRACTICE (2) (S) Introduction to processes of professional practice in treating functional limitations.

OCT 360 SPECIALIZED FIELD SERVICE (variable (SS) Pre-clinical experience in an approved training center to meet individual interests and needs.

OCT 410 ORGANIZATION AND ADMINISTRATION (5) (F) Administrative procedures in planning and operating an occupational therapy treatment program.

OCT 420 PSYCHIATRIC OCCUPATIONAL THERAPY THEORY (5) (F) Theories and approaches to psychological aspects of illness in the rehabilitative process.

OCT 421 PSYCHIATRIC OCCUPATIONAL THERAPY THEORY (5) (W) Continuation of OCT 420. Prerequisite: OCT 420.

OCT 431 PHYSICAL DISABILITY THEORY (5) (W) Continuation of OCT 330. Prerequisite: OCT 330.

OCT 432 DISABILITY EVALUATION I (2) (F) Evaluation of work potential in the cultural milieu.

OCT 433 DISABILITY EVALUATION II (3) (W) Evaluation procedures in the testing of perceptual-motor dysfunction. Prerequisites: Anatomy, physiology, neuroscience.

OCT 440 REHABILITATION SEMINAR (3) (F) Research in occupational therapy and related medical fields.

OCT 450 DEVELOPMENTAL THEORY (5) (W) The use of developmental theory in occupational therapy practice.

OCT 460 FIELD WORK EXPERIENCE (12) Three month internship in a physical disabilities treatment center.

OCT 461 FIELD WORK EXPERIENCE (12) Three month internship in a mental health treatment center.

OCT 462 FIELD WORK EXPERIENCE (variable) Internship in a specialized treatment area.

OCT 500 INDEPENDENT STUDY (variable)

OCT 501 CURRENT RESEARCH IN OCCUPATIONAL THERAPY (1-5) Review of statistical concepts and research procedures in the clinical setting with in depth study of current status of research in occupational therapy.

OCT 502 CURRENT TRENDS IN MENTAL HEALTH AS RELATED TO OCCUPATIONAL THERAPY PRACTICE. (1-5) Specialized study of specific treatment theories and the application of these theories to clinical practice.

OCT 503 THE STUDY OF GERONTOLOGY AS RELATED TO OCCUPATIONAL THERAPY PRACTICE (1-5) A study of the impact of advances in the field of gerontology and current legislation on the profession.

OCT 504 EVALUATION AND TREATMENT OF PERCEPTUAL-MOTOR DYSFUNCTION (1-5) The study of specific evaluation tools and the developing treatment procedures as directly related to these tests.

SOCIAL WORK

The Department offers an integrated educational experience for the student major which combines the theoretical and practical. The primary objective of the program is to enable the student to develop competence for beginning level entry into the profession of social work. The program also prepares a student for graduate study, and to participate as an informed member of the community. The program is accredited by the Council on Social Work Education.

DEGREE: Bachelor of Science in Social Work
LOWER DIVISION PREPARATION:

Required Courses: an Associate of Arts degree from a social science stream of a pre-social work program.

Remarks: equivalent preparatory coursework taken at a four-year institution is acceptable as equivalent to the above degree. The student not meeting the above requirements or the equivalent will be admitted, but must design an individualized program of study in consultation with a program advisor to complete the requirements.

Recommended Courses: the following courses are offered in the Community College and the student is urged to take them before entering the Social Work Program: human growth and development, introductory sociology, social problems, marriage and the family, human relations, social statistics, and introduction to social welfare.

UPPER DIVISION PROGRAM:

TER DIVISIO	TT ROOKAM.			
			Que	arter Hours
Required Ca	urses:			65
·	Juniar Year			
Fall Quarter			15	
SOW 301	Historical and Philosophical Perspectives of Social Welfare Services	5		
SOW 302	Contemporary Issues and Problems in Social Welfare Policy	5		
ANT 403	Anthropological Approaches to Cultural Minorities	5		
or				
SOC 471 or	Minorities (Race and Ethnic Relations)	5		
PSY 307 or	Human Growth and Development	5		
SOW 305	Dynamics of Human Behavior in the Social Environment	5		
*Required	d only if not satisfactorily completed at the lower division level.			
Winter Quai	rter		15	
SOW 305	Dynamics of Human Behavior in the			
or	Social Environment*	5		
ANT 403	Anthropological Approaches to Cultural Minorities	5		
or	Anniopological Approaches to consider minorines			
SOC 471	Minorities (Race and Ethnic Relations)	5		
	Self-Awareness, Self-Modification and Service	5		
HSM 304	Health and Social Service Delivery Systems	5		
	ken Fall Quarter.			
Spring Quai			15	
	Social Work Practice Skills I	5		
SOW 308	Field Experience I	10		
3017 300	Senior Year			
Fall Quarter	33.11.2 1.1.23.		15	
	Social Work Practice Skills II	5		
	Field Experience II*	10		
	dent should plan in consultation with a faculty advisor	10		
	lete the second field experience during the Fall or			
	Ougster of the Senior Year.			
			5	
Winter Qua		5	,	
	Methods of Community Research	J		25
Electives:		10		1
	arter, Senior Year: Two Courses	10 15		1
Spring Que	rter, Senior Year: Three Courses	13		_
				90

Remarks: The student considering graduate study in social work should include introductory courses in economics and political science among his or her electives.

COURSE OFFERINGS

SOW 301 HISTORICAL AND PHILOSOPHICAL PERSPECTIVES OF SOCIAL WELFARE SERVICES (5) (F,W.S,) This course is a sequential and cumulative examination of Social Welfare and the changing role of Social Work. The focus will be creating awareness in the individual in relation to the question: How Do We Want to Live?

SOW 302 CONTEMPORARY ISSUES AND PROBLEMS IN SOCIAL WELFARE POLICY (5) (F,W,S,) This course is designed to enable the student to identify urgent issues and problems as related to social welfare on a local, national and international basis.

SOW 305 DYNAMICS OF HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT (5) (F,W,S,) An examination of the psychosocial foundations of Social Work practice surveying major perspectives in personality theory, adjustment, maladaptiveness, and the treatment and prevention of adjustive failures. Prerequisites: PSY 307, PSY 330 or equivalent.

SOW 306 SELF-AWARENESS, SELF-MODIFICATION AND SERVICE (5) (F,W,S,) An experientially oriented course directed toward helping students become aware of their own intra-personal and inter-personal processes and how these may influence their skill and effectiveness as professional helping persons. Emphasis is on personal learning.

SOW 307 SOCIAL WORK PRACTICE SKILLS I (5) (F,W,S,SS) An overview of Social Work intervention for the beginning proctitioner. Generic values, attitudes and process in client-worker relationship building will be discussed and analyzed. Authentic cose material is utilized to acquaint students with assessment, modes of intervention, goal setting, and implementation. Prerequisites: SOW 305, SOW 306 or equivalent.

SOW 308 FIELD EXPERIENCE I (10) (F,W,S,SS) This is the first 240-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 o first-hand oworeness 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. Field seminars are required. Mojors only. Prerequisites: SOW 301, SOW 302, SOW 305, SOW 306 or their equivalents. Pre- or Corequisite: SOW 307 or its equivalent.

SOW 317 TECHNIQUES OF INTERVIEWING (5) A competency-based course designed to provide students with basic interviewing skills. Emphasis placed on actual interview behavior rather than theory. Audio-and video-taping, role-playing, simulations, and micro-counseling training methods will be utilized. Prerequisites: SOW 305 or equivalent/Permission of instructor.

SOW 401 METHODS OF COMMUNITY RESEARCH (5) (F,W,S) Introduction to research design, analysis, evaluation and data collection techniques. Each student will isolate a specific community problem orea in South Florida and apply the appropriate techniques that will allow a critical evaluation of the situation. Prerequisites: SOW 301, SOW 302, SOW 305, SOW 306, SOW 307, SOW 308 or their equivalent.

SOW 405 PERSON SYSTEMS IN DISTRESS (5) (S) A study of selected psychosocial, racial, ethnic and medical problems frequently encountered by Social Work practitioners. Emphasis on the development of understanding of human problems basic to formulation of effective helping strategies. Prerequisite: SOW 305 or equivolent.

SOW 407 SOCIAL WORK PRACTICE SKILLS II, GROUP WORK AND COMMUNITY ORGANIZA-TION (5) (F,W,S,SS) This course is designed to enable the student to develop generic Social Work practice skills in working with groups and communities. Emphasis will also be given to the present range of theoretical formulation of crisis theory and intervention. Prerequisite: SOW 307 or its equivalent.

SOW 408 FIELD EXPERIENCE II (10) (F,W,S,SS) This second 240-hour supervised social work practice experience enables the student to progress toward a higher level of awareness and understanding of needs and behavioral responses. Generic skills are applied more selectively with increasing interest and proficiency in one or more practice areas. This second placement affards the student an apportunity to become a more effective part of the social service delivery system. Field seminars are required. Majors only. Prerequisite: SOW 308 or equivalent. Corequisite: SOW 407 or its equivalent.

SOW 417 COMMUNITY ORGANIZATION (5) 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 basic skills and prevalent models of community arganization in social work practice. Prerequiste: SOW 302 or equivalent.

SOW 420 FIELD EXPERIENCE III (10) (F,W,S,SS) This third supervised social work practice experience makes it possible for students to shorpen diagnostic skills and to refine planning and implementation of appropriate helping techniques as these relate to individuals, groups and/or communities. Field seminars as required. Majors only. Prerequisite: SOW 408 or equivolent. Required 240 clock hours for students receiving credit for life experience for SOW 308, SOW 408 and permission of instructor required.

SOW 429 SENIOR PROJECT (1-10) (F,W,S) Under the direction of an individual from the University or community (chosen in consultation with the student's school advisor), the student will undertake to integrate an in-depth and functionally independent exploration of a problem area in which he wished to gain a degree of expertise. Majors only. Prerequisite: SOW 401 and permission of instructor required.

SOW 433 UNDERSTANDING THE PROCESS OF AGING (5) This course is designed to facilitate the helping person's assessment and plan of intervention with the elderly and the multiplex problems they experience. Prerequisite: None.

SOW 480 THE SYSTEMS APPROACH IN THE SOCIAL SERVICES (5) This course will focus on "General Systems Theory" and its consequences for a revision of the world picture. Emphasis will be on the significance of the systems approach in models eloborated for social service systems. Prerequisite: Permission of instructor.

SOW 485 CRISES IN THE LIVES OF WOMEN (5) Common crises in lives of women — abortion, rape, discrimination protest, housewife syndrome, and menopause — will be examined in terms of women's newly expressed needs and values. Ramifications for relationships with men and children of various solutions to crises will be discussed. Prerequisites: None.

SOW 495 INDIVIDUAL STUDY (1-10) (F,W,S) Individually selected program of supervised personal study related to specific social issues. Prerequisite: Permission of instructor,

SOW 496 DIRECTED READINGS (1-10) (F,W,S) Extensive reading and analysis of appropriate literature under faculty supervision, Prerequisite: Permission of instructor.

SOW 500 INDEPENDENT RESEARCH (1-10) (F,W,S) Individually selected program of supervised group or personal study related to a specific social wark issue. Narmally the product will be a research paper suitable far publication. Prerequisite: Permission of instructor.

SOW 501 EVALUATING SOCIAL SERVICE PROGRAMS I (5) Consideration of experimental and quasiexperimental designs and measurement techniques suitable for evaluation of social service programs. Discussion of political problems in program evaluation and difficulties in policy inference. Field experience included. Prerequisites: MAS 335-336. SOW 401 or equivalents.

SOW 502 EVALUATING SOCIAL SERVICE PROGRAMS II (5) Implementation of program evaluation prapasal generated in SOW 501. This seminor will provide actual field experience in data collections analysis, and pragram evaluation report writing. Prerequisite: SOW 501.

SOW 515 TECHNIQUES OF PREVENTION AND EARLY INTERVENTION (5) This course has been designed to enable the student to learn about crisis intervention etiology, structure and theory so he/she may acquire some beginning practical knowledge in a sub-specialty. Prerequisite: Permission of instructor.

SOW 530 PROFESSIONAL VALUES IN THE HUMAN SERVICES (5) Designed to ossist students in identification, exploration, and experiencing values inherent in prafessionalism os manifested in the human services professions. Material will be presented in a didactic and experiential manner with emphasis on student invalvement in the values clarification pracess. Prerequisites: Senior or graduate standing.

SOW 596 SEMINAR IN SOCIAL WORK (5) An explanation of various critical issues of concern to the Social Work profession. Prerequisites: Permission of instructor.

SCHOOL OF HOTEL, FOOD & TRAVEL SERVICES

The School of Hotel, Food and Travel Services offers Bachelors and Masters programs that combine practical experience with classroom theory to assist the student 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. Only five sprograms in the entire state university system have been so honored.

ADMISSION

UNDERGRADUATE

Any student who has completed two years of college (60 semester hours, 90 quarter hours) may apply for admission. Full credit will be granted for both *Associate of Arts* and *Associate of Science* degrees. One may enroll on either a full-time or part-time basis.

It is not necessary to have been previously enrolled in a hotel or restaurant program. The curriculum will provide the specialized professional education to equip the student for a career in hospitality management. Students with training in Liberal Arts, Business, Education, Technology, for example, are qualified to enroll in the program.

GRADUATE

Any student is eligible for admission to graduate study who holds a Bachelors degree from an accredited institution, has attained a combined score of 1000 on the Graduate Record Examination (verbal and quantitative aptitude sections), or a "B" average in all upper division work.

A candidate for the Masters degree whose undergraduate program was in Hotel and Restaurant Management must complete 45 quarter hours of graduate study plus the research project. The candidate with a Bachelors degree in any other academic area must complete an additional core of professional hotel and food service courses.

The exact amount of additional work will vary with the undergraduate background of the candidate, but will not exceed 40 quarter hours including the required managerial internship program. A maximum of 15 quarter hours of graduate credit may be transferred from any other university or from the graduate programs of this University.

Additional information on admission procedures may be found in the admission section of the catalog.

SPECIAL CERTIFICATE PROGRAM

A student who does not have the necessory two years' ocademic credit to qualify for degree earning status may complete the courses listed under the major General Hospitality Management. A certificate of completion is awarded to successful candidates.

SPECIAL STUDENTS

A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a *Special Student* for a maximum of 10 credit hours per quarter.

UNDERGRADUATE STUDY

Bachelor degree programs are offered in general hospitality management; hotel and motel management; international hotel management; restaurant and food service management; tourism and travel management; condominium, cooperative, and apartment management.

DEGREE: Bachelor of Science

LOWER DIVISION PREPARATION:

Required Courses: Principles of 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.

Recommended Courses: Courses in accounting, economics, psychology and public speaking.

UPPER DIVISION PROGRAMS:

GENERAL HOSPITALITY MANAGEMENT

Required Cour	ses:	Quarte	r Hours
Accounting	and Finance:		25
HRM 360	Haspitality Accounting Information Systems	5	
HRM 320	Operations Cantral for Hospitality Industry Management	5	
HRM 404	Interpretation of Hospitality Financial Statements	5	
HRM 408	Financial and Legal Aspects of Real Estate Development	5	
HRM 485	Profit Planning and Decision Making		
	in the Hospitality Industry	5	
Food and B	everage Management		15
HRM 310	Introductory Commercial Service Production	5	
HRM 311	Volume Feeding Management	5 5	
HRM 318	Basic Meat Science	5	
Hotel and R	estaurant Administration:		30
HRM 325	Law as Related to the Hospitality Industry	5	
HRM 328	Internship in Hospitality Management	5	
HRM 329	Advanced Internship in Hospitality Management	5	
HRM 331	Marketing of Hospitality Services	5	
HRM 340	Physical Plant Management	5	
BUA 303	Principles of Marketing	5	
Electives:			30
			_
			100

HOTEL AND MOTEL MANAGEMENT

Required Cour	rses:	Quarte	er Hours
Accounting	and Finance:		25
HRM 360	Haspitality Accounting Information Systems	5	
HRM 320	Operations Control for Hospitality Industry Management	5	
HRM 404	Interpretation of Hospitality		
	Industry Financial Statements	5	
HRM 408	Financial and Legal Aspects of Real Estate Development	5	
HRM 485	Profit Planning and Decision Making		
	in the Haspitality Industry	5	
Food and B	everage Monagement:		20
HRM 310	Intraductory Commercial Food Service Production	5	
HRM 311	Valume Feeding Management	5	
HRM 316	Restaurant Management	5	
HRM 318	Basic Meat Science	5 5	
Administrati	ian:		30
HRM 325	Law as Related to the Hospitality Industry	5	•
HRM 328	Internship in Haspitality Management		
HRM 329	Advanced Internship in Hospitality Management	5 5	
HRM 331	Marketing of Haspitality Services	5	
HRM 425	Union Management Relations in the Haspitality Industry	5	
BUA 303	Principles of Marketing	5	
Electives:		_	25
			100

INTERNATIONAL HOTEL MANAGEMENT

Required Cour	rses:	Quarter Hours
Accounting	and Finance:	20
HRM 360	Haspitality Accounting Information Systems	5
HRM 320	Operations Control for Hospitality Industry Management	5
HRM 404	Interpretation of Haspitality	
	Industry Financial Statements	5
HRM 485	Profit Planning and Decision Making in	
	the Haspitality Industry	5
Food and B	everage Management:	15
HRM 310	Intraductory Commercial Food Service Production	5
HRM 311	Volume Feeding Management	5
HRM 316	Restaurant Management	5
Hotel Admi	nistration:	35
HRM 325	Law as Related to the Hospitality Industry	5
HRM 328	Internship in Haspitality Management	5
HRM 329	Advanced Internship in Hospitality Management	5
HRM 331	Marketing of Haspitality Services	5
HRM 340	Physical Plant Management	5
TTM 308	International Travel and Taurism	5 5
BUA 303	Principles of Marketing	5
Electives:		30
		_
		100

RESTAURANT AND FOOD SERVICE

Required Cou Accounting	rses; ond Finance;	Quarter Hours 20
HRM 360	Hospitality Accounting Information Systems	5
HRM 320	Operations Control for Hospitality	_
	Industry Management	5
HRM 404	Interpretation of Hospitality Financial Statements	5
HRM 485	Profit Planning and Decision Making in	
	the Hospitality Industry	5

(Continued)

Food and Be	everage Management:		25
HRM 310	Introductory Commercial Food Service Production	5	
HRM 311	Volume Feeding Management	5	
HRM 415	Purchasing and Menu Planning	5	
HRM 316	Restaurant Management	5	
HRM 318	Basic Meat Science	5	
Restaurant o	and Food Service Administration:		35
HRM 325	Law as Related to the Hospitality Industry	5	
HRM 328	Internship in Hospitality Management	5	
HRM 329	Advanced Internship in Hospitality Management	5	
HRM 331	Marketing of Hospitality Services	5	
HRM 340	Physical Plant Management	5	
HRM 425	Union Management Relations in the Haspitality Industry	5	
BUA 303	Principles of Marketing	5	
Electives:			20
			100

TOURISM AND TRAVEL MANAGEMENT

Required Cou	ses:	Quarter Hours
Accounting	and Finance:	15
HRM 485	Profit Planning and Decision Making	
	in the Hospitality Industry	5
TTM 360	Travel and Tourism Management	
	Information Systems	5
TTM 404	Interpretation of Travel and Tourism	
	Management Financial Statements	5
Administratio	n:	22
HRM 325	Law as Related to the Haspitality Industry	5
HRM 326	Intraduction to Hospitality Management	2
HRM 331	Marketing of Hospitality Services	5
HRM 425	Union Management Relations in the	
	Haspitality Industry	5 5
BUA 303	Principles of Marketing	5
Travel and	Taurism Management:	35
TTM 301	Fundamentals of Tourism	5
TTM 303	Retail Travel Agency Management	5
TTM 307	Convention and Trade Show Management	5
TTM 308	International Travel and Taurism	5
TTM 309	Internship in Taurism and Travel Management	5
TTM 310	Advanced Internship in Travel and	
	Taurism Management	5
TTM 334	Warld Regional Geography	5 5
Electives: (Five	hours must be taken in Transportation)	25
	,	
		97
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CONDOMINIUM, COOPERATIVE, AND APARTMENT MANAGEMENT

Required Cour	ses:	Quarter Hours
Accounting	and Finance:	20
HRM 360	Haspitality Accounting Information Systems	5
HRM 404	Interpretation of Hospitality Industry	
	Financial Statements	5
HRM 408	Financial and Legal Aspects af Real Estate Development	5
HRM 485	Profit Planning and Decision Making	
	in the Hospitality Industry	5

30 Administration: HRM 316 5 Restaurant Management HRM 325 Law as Related to the Hospitality Industry 5 5 HRM 328 Internship in Hospitality Management 5 HRM 329 Advanced Internship in Haspitality Management 5 HRM 331 Marketing of Hospitality Services **BUA 303** Principles of Marketing 5 15 Property Management: **HRM 340** Physical Plant Management 5 HRM 480 Condominium, Cooperative and **Apartment Management** 5 HRM 481 Marketing and Servicing the Resort Condominium, 5 Cooperative and Apartment Cancepts Electives: 35

GRADUATE STUDY

(Continued)

HOTEL AND FOOD SERVICE MANAGEMENT

100

DEGREE: Moster of Science in Food Service Management

		Quarter nours
Required Core	Courses:	35
HRM 610	Organizational Behavior in the Haspitality Industry	5
HRM 615	Research and Statistical Methods	5
HRM 620	Financial Management for Hospitality Industry	5
HRM 625	Seminar in Hospitality Management	5
HRM 629	Haspitality Law Seminar	5
HRM 630	Haspitality Industry Praject	5
HRM 665	Operations Control	5
Electives: (500	and 600 level)	20
		_
		55

COURSE OFFERINGS

Undergraduate

HRM 301 INTRODUCTION TO MANAGEMENT ACCOUNTING FOR THE HOSPITALITY INDUSTRY (5) Introduction and practice in accounting processes and the principles of hospitality management accounting. Prepares the student for work in advanced accounting and financial management. Required for students who have not campleted an introductory accounting course.

HRM 306 LODGING SYSTEMS AND PROCEDURES (5) Detailed examination of the functions and procedures utilized in servicing the guest of a lodging establishment, contrasting the traditional techniques and the modern systems that have been developed. Extensive use of the School's Mobydata minicomputer haspitality system to demonstrate "state-of-the-art" concepts. Prerequisite: Permission of the instructor.

HRM 310 INTRODUCTORY COMMERCIAL FOOD SERVICE PRODUCTION (5) Provides an introduction to commercial food preparation, nutrition, standard product identification, storage and supervisory techniques in the area of food preparation. Course includes classroom instruction, demonstrations and actual cooking experience.

HRM 311 VOLUME FEEDING MANAGEMENT (5) The facilities of various types af 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 cast cantrol procedures are integral parts of the course. Prerequisite: HRM 310 or equivalent.

HRM 312 IMPROVING YOUR EFFECTIVENESS AS A CONSUMER (3-5) What information does the individual consumer need to deal more effectively for goods and services? Where and how is this information obtained? These questions will be dealt with in detail. Materials intended for the student's future reference will be used. The purpose of the course is to apply modern management methods to improve individual spending decisions.

HRM 314 CLASSICAL CUISINE (5) Pravides an opportunity for students skilled in caokery 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 os well as convenience foods. Prerequisite: HRM 310.

HRM 316 RESTAURANT MANAGEMENT (5) 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 gaurmet. Industry leaders will present successful concepts of restaurant operation.

HRM 317 BEVERAGE MANAGEMENT (4) 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 aperations including purchasing, cantrol, merchandising and bar management. Field trips are made to hatels and restaurants to demonstrate salient operating principles.

HRM 318 BASIC MEAT SCIENCE (5) Fundamentals of meat quality, yield, utilization of cuts, availability, costing, buying, inventorying, packaging, labor and trends.

HRM 320 OPERATIONS CONTROL FOR HOSPITALITY INDUSTRY MANAGEMENT (5) Study of the management toals available to control sales and expenses within haspitality operations. Detailed analysis of the responsibility centers using a cost managing approach. Case problems provide the students the apportunity to develop control systems for food and lodging organizations.

HRM 321 CLUB OPERATIONS MANAGEMENT (5) Lecture discussion, case studies and field trips specifically designed to expose the future club manager, golf professional and turf manager to Club operations. Intraduction to the Uniform System of Accounts for Clubs. Annual Club Studies of Operating Results, Control Systems, Taxation, Budgeting and Management Reports.

HRM 325 LAW AS RELATED TO THE HOSPITALITY INDUSTRY (5) A basic course in hotel, motel and restaurant law. No prerequisites. 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.

HRM 326 INTRODUCTION TO HOSPITALITY MANAGEMENT (2) 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.

HRM 328 INTERNSHIP IN HOSPITALITY MANAGEMENT (5) Experience in all the major departments of an aperating hatel, motel, restaurant or food service operation. Reports are required of all students.

HRM 329 ADVANCED INTERNSHIP IN HOSPITALITY MANAGEMENT (5) Structured management experience in a specialized career of the hospitality industry. Programs include: food and beverage management, raoms division management, sales management, In-flight catering management, fast food service management and restaurant management.

HRM 330 FUNDAMENTALS OF MANAGEMENT IN THE HOSPITALITY INDUSTRY (5) A basic caurse in general management to acquaint the student with theories and principles of organization, the tools of managerial decision-making and the management pracess with particular reference to the hospitality industry.

HRM 331 MARKETING OF HOSPITALITY SERVICES (5) Application of marketing principles to business operations within the hospitality industry with particular emphasis on viewing marketing as a campetitive strategy in domestic and international markets. Prerequisite: BUA 303 or equivalent.

HRM 332 ADVERTISING FOR THE HOSPITALITY INDUSTRY (5) Consideration of all aspects of the advertising element of the promotion mix to execute the corporation's ar tourist destination's marketing strategy. Prerequisite: HRM 331.

HRM 333 SALES MANAGEMENT FOR THE HOSPITALITY INDUSTRY (5) The caurse focuses on arganizing the sales and servicing effort and executing the marketing strategy by developing sales strategies, plans and tactics far hospitality carporations and taurist destinations. Special emphasis is placed an developing group markets and gaining travel retailer support for destinations, hotel corporations and cruiselines. The course may be fallowed by a sales management internship. (Prerequisite: HRM 331).

HRM 339 HOSPITALITY PROPERTY MANAGEMENT (5) 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 cost of equipment and persannel with modern innovations that are available.

HRM 340 PHYSICAL PLANT MANAGEMENT (5) A comprehensive survey of the engineering, maintenance and efficiency control in hotels, restaurants and institutions.

HRM 341 HOTEL AND RESTAURANT PLANNING AND DESIGN (5) 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 hatel and restaurant projects will serve as the basis for discussion and student project work.

HRM 360 HOSPITALITY ACCOUNTING INFORMATION SYSTEMS (5) The study of an accounting system for hospitality operations within the cantext of the firm's averall 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: HRM 301 or equivalent.

HRM 398-399-400 INDEPENDENT STUDIES (VAR) With permission from the Chairmen of the Division of Hatel and Restaurant Services, or Division of Travel Services, students may engage in independent research projects and other approved phases of independent study.

HRM 401 SEMINAR IN HOSPITALITY INFORMATION SYSTEMS (5) 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 farms the basis for their course project. Research, case problems, class analysis and discussion. Prerequisite: Permission of the instructor.

HRM 404 INTERPRETATION OF HOSPITALITY INDUSTRY FINANCIAL STATEMENTS (5) In depth study of haspitality 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 haspitality industry annual studies. Prerequisites: HRM 320 and HRM 360.

HRM 405 FUNCTIONS OF THE HOSPITALITY INDUSTRY COMPTROLLER (5) A specialized course designed far students desiring strong emphasis and training in the camplex accounting and finance functions of hospitality industry management. Prerequisites: HRM 304, HRM 320.

HRM 406 COMPUTER SYSTEMS FOR HOSPITALITY INDUSTRY MANAGEMENT (5) A seminar on computer systems and their applications within the haspitality industry. Consideration is given to an understanding of the basic computer hardware and saftware concepts needed for a manager to communicate with data processing personnel, Prerequisite: HRM 304.

HRM 407 SEMINAR IN TAXPLANNING FOR THE HOSPITALITY INDUSTRY (5) Develops tax awareness and the ability to recognize the possible tax implications of business decisions. Tax considerations are studied for existing, expanding and planned hospitality aperations. 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.

HRM 408 FINANCIAL AND LEGAL ASPECTS OF REAL ESTATE DEVELOPMENT (5) An introductory course designed to acquaint the student with the legal aspects of financing in the haspitality industry. The student is exposed to the sources and availability of hospitality financing. Financing from the viewpoint of a sole proprietorship, partnership and corporation is discussed. The course also covers the purchasing and leasing of haspitality properties, condominium and cooperative forms of ownership and franchising.

HRM 410 INSTITUTIONAL FOOD SERVICE MANAGEMENT (5) This course brings together basic management techniques and controls that are useful in the area of institutional feeding programs. Federal and State governments' regulations studied. Special emphasis is given to Hospital Food Service Direction and the National School Lunch Program.

HRM 411 IN-FLIGHT FOOD SERVICE MANAGEMENT (5) 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, security control systems, familiarization with specific and specialized food service equipment, equipment routing and balance, and transpartation methods and procedures.

HRM 415 PURCHASING AND MENU PLANNING (5) Basic information on sources, grades and standards, criteria for selectian, purchasing and starage 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.

HRM 416 SANITATION IN FOOD SERVICE OPERATION (5) The causes and preventian 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.

HRM 418 ADVANCED MEAT SCIENCE (5) An advanced course which considers the variable factors of meat, poultry and fish utilization. Emphasis is placed upon newer techniques in purchasing, maximizing yields and providing products in unique form. The use of TVP and other analogs are considered as are the functions of the specialized commissory type of meat processing plants. Guest speakers will be utilized and field trips to pratein processing plants will be made to emphasize major points. Prerequisite: HRM 318.

HRM 419 RESTAURANT MANAGEMENT SEMINAR (5) By permission of instructor only. A senior course reviewing current problems and practices, developing policies and procedures and implementing same.

HRM 421 MONEY MANAGEMENT FOR THE HOSPITALITY INDUSTRY (5) Various methods of investment analysis, investment apportunities and pitfalls with special emphasis on securities of and investments in the Hospitality Industry.

HRM 425 UNION MANAGEMENT RELATION IN THE HOSPITALITY INDUSTRY (5) A comprehensive course covering lobor 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.

HRM 426 SENIOR SEMINAR IN MANAGEMENT METHODS (5) Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hatel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will came together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

HRM 427 RESORT MANAGEMENT (5) A course designed to focus on the unique problems of resort hotel monogement and the application of special techniques to meet these problems.

HRM 428 HUMAN RELATIONS IN THE HOSPITALITY FIELD (5) The problems foced by the supervisor and the executive in monoging 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.

HRM 429 HOSPITALITY LAW SEMINAR (5) New lows and their import on the hospitality industry ore examined. Students research and publish "industry alert bulletins" explaining the import of new legislation on the hospitality industry. Prerequisite: HRM 325.

HRM 435 FOOD AND BEVERAGE MERCHANDISING (5) This is an opplication of marketing and advertising principles to the specific area of food and beverage far hotels and restaurants.

HRM 446 FOOD FACILITY LAYOUT AND DESIGN (5) Defines ond 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 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.

HRM 450 ORGANIZATION AND DEVELOPMENT OF RESORT, CONDOMINIUM, COOPERATIVE AND RESIDENTIAL COMPLEXES (5) This seminar deals with the legal and financial aspects of real estate. Various instruments of real estate financing are examined. Students are exposed to land contracts, long and short term leases real estate bonds, and various facets of investment trusts. Permission of the instructor must be obtained to take the course. Prerequisite: post course work ar experience in the real estate industry.

HRM 480 CONDOMINIUM, COOPERATIVE AND APARTMENT MANAGEMENT (5) A survey course delineoting the monogement functions of the resort condominium complex with special emphasis on similarities and differences in comparison to hotel and resort management.

HRM 481 MARKETING AND SERVICING THE RESORT CONDOMINIUM, COOPERATIVE AND APARTMENT CONCEPTS (5) (W) A simulated case project taking each of the three types of properties from selection af site completely through all phases of sales, marketing and servicing to complete occupancy and day-to-day operation.

HRM 485 PROFIT PLANNING AND DECISION MAKING IN THE HOSPITALITY INDUSTRY (5)

Study of the decision making process involved in the development of profit plans through analysis of hospitality industry studies. The establishment of short and long term goals and the means to reach these goals through profit plans. Emphasis on pricing decisions, responsibility centers, variance analysis, cost-volume profit analysis, capital budgeting and tax considerations. Prerequisite: HRM 404 or TTM 404.

HRM 500-504 INDEPENDENT STUDIES (VAR) With permission from the Chairmen of the Division af Hatel and Restaurant Services, or Division of Travel Services, students may engage in independent research projects and other approved phases of independent study.

HRM 509 FEASIBILITY STUDIES FOR THE HOSPITALITY INDUSTRY (5) A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field.

HRM 510 SEMINAR IN HOSPITALITY INDUSTRY FINANCIAL MANAGEMENT SYSTEMS (5) Visits to various hospitality businesses for seminors with management team members. Lectures, demonstrations and discussion of each operation's methods and procedures with emphosis on accounting and control systems. Prerequisite: Permission of the instructor.

HRM 533 PROBLEMS IN MARKETING (5) Team-work analysis and recommended solution of an actual marketing problem which has been posed by a lacal operator. Prerequisite: HRM 331.

HRM 536 ADVANCED FOOD SERVICE OPERATION (5) A senior course designed to coordinate the various management functions covered in previous courses into a comprehensive approach to prafitable food service operations.

TTM 301 FUNDAMENTALS OF TOURISM (5) An introduction to the braad fields of travel and taurism. Among the topics covered ore cultural tourism, sociology of taurism, tourism components and supply, tourism development, the economic role of tourism, tourism demand, and the marketing of tourism.

TTM 303 RETAIL TRAVEL AGENCY MANAGEMENT (5) An introduction to the basic operations aspect of travel agency management. The application of fundamental principles and successful practices in developing a satisfied clientele.

TTM 304 TECHNICAL AGENCY OPERATIONS (5) Comprehensive, detailed course covering the technical pracedures, practices and systems of day-to-day travel management. The counseling, sales and personal relationships with clients, hotels, tour agencies and transportation systems.

TTM 305 PASSENGER TRAFFIC MANAGEMENT (5) A survey of land, water and air transportation from an integrated, intermodal frame covering organization, operations, financing, research, regulation, economics and certain social and political factors, as well as contribution made by each mode to the development of tourism.

TTM 306 CREATIVE TOUR PACKAGING (5) A thorough study of the functions of the wholesale tour operation. Includes tour operations and development, sales methods used in selling group business, costing and contracting of group business and in-depth study of the promotional aspects of tour packaging.

TTM 307 CONVENTION AND TRADE SHOW MANAGEMENT (5) A course concentrating on organizing, arranging and operating conventions, trade shows, and concessions. Emphasis will be placed on the mades and methods of sales used in booking conventions and trade shows as well as the division of administrative responsibility in their operation.

TTM 308 INTERNATIONAL TOURISM AND TRAVEL (5) An introduction to the complete international scape 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.

TTM 309 INTERNSHIP IN TOURISM AND TRAVEL MANAGEMENT (5) Experience in all phases of travel agency management and in the travel and sales area of major airlines. Reports are required.

TTM 310 ADVANCED INTERNSHIP IN TOURISM AND TRAVEL MANAGEMENT (5) Structured management experience with an airline, a travel agency, tour operator or cruise line. Report required.

TTM 312 SOCIOLOGY OF LEISURE (5) An introduction to the fundamental, psychological and sociological concepts and theories as they relate to the motivation behind travel and tourism. Emphasis will be placed on the biological basis on behavior and the dynamics of personality.

TTM 334 WORLD REGIONAL GEOGRAPHY (5) A systematic survey of the major regions, and countries, of the world with regard to their physical, cultural, and political characteristics. Emphasis upon climate, natural resources, economic development, and population patterns.

TTM 360 TOURISM AND TRAVEL MANAGEMENT INFORMATION SYSTEMS (5) Development and application of a uniform system of accounts and reports for travel agencies. The flow of data from source inputs through financial statement preparation, with computer assisted processing and reporting techniques. Students use the University computer for case problems. Prerequisite: HRM 301 or equivalent.

TTM 404 INTERPRETATION OF TOURISM AND TRAVEL MANAGEMENT FINANCIAL STATE-MENTS (5) in depth study of financial statements including consideration of the significant relationships between the various accounts found on financial reports. Use of a uniform system, reports analyses and data interpretation as tools for the travel and tourism organization manager. Major emphasis is placed upon trend analysis, ratio analysis and comparison analysis using industry studies. Prerequisites: TTM 360.

GRADUATE:

Core Courses

HRM 610 ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY (5) 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.

HRM 615 RESEARCH AND STATISTICAL METHODS (5) A study of basic research methodology as applied to a variety of hospitality industry research projects. Technique for data collection, interpretation and methods of reporting are considered.

HRM 620 FINANCIAL MANAGEMENT FOR THE HOSPITALITY INDUSTRY (5) 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.

HRM 621 INVESTMENT ANALYSIS FOR THE HOSPITALITY INDUSTRY

HRM 625 SEMINAR IN HOSPITALITY MANAGEMENT (5) Attention is facused 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.

HRM 630 HOSPITALITY INDUSTRY PROJECT (5) An individualized research project dealing with current problems in the hospitality industry. Topics and research methods must be approved by the graduate faculty before registration for the course.

Electives:

HRM 600-602 INDEPENDENT STUDIES (VAR) With permission from the Chairmen of the Division of Hotel and Restaurant Services, or Division of Travel Services, students may engage in independent research projects and other approved phases of independent study.

HRM 606 ADVANCED FOOD SERVICE DESIGN OPERATIONS 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: HRM 341 or HRM 446.

MBA 699 POLICY ANALYSIS (5) The use of cases, guest lecturers, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision making in an administrative context of uncertainty. Prerequisite: should be taken in the last quarter of Master's Program.

HRM 628 GRADUATE INTERNSHIP Structured graduate management experience in a specialized career of the hospitality industry. Programs include: food and beverage management, room division management, sales management, In-flite catering management, fast food service management and restaurant management. Prerequisite: Permission of the instructor.

HRM 629 HOSPITALITY LAW SEMINAR (5) 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: HRM 325.

HRM 635 INTERNATIONAL HOTEL OPERATIONS (5) A consideration of the various environments within which the international hospitality firm operates. Organizational, financial and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature.

HRM 640 THE ORGANIZATION AND ITS ENVIRONMENT (5) 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.

MAR 612 MARKETING RESEARCH (5) The role of research in providing information for marketing decision making including an examination of the research process and the tools available to the researcher.

HRM 645 HOSPITALITY INDUSTRY ORGANIZATIONAL INFORMATION SYSTEMS (5) Study of information systems in the hospitality industry. Consideration of the design and development of an information system based on user needs. Emphasis on identification and specification of user requirements and the selection of the appropriate design. Students work on a systems development project.

HRM 650 TAXATION FEDERAL AND STATE (5) A study of state and federal taxation concepts, including tax management for individuals, partnerships, and corporations engaged in the hospitality field.

HRM 660 MARKETING MANAGEMENT (5) Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator.

MBA 625 MANAGERIAL DECISION THEORY (5) This course will investigate and analyze the decision problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis in the course will be placed on providing variety of decision-making experiences for the student, including the opportunity of participating in a management computer game.

HRM 665 OPERATIONS CONTROL (5) Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotels or restaurant enterprises.

HRM 670 MOTIVATION AND LEADERSHIP (5) Motivation, perception, learning, attitude formation, incentive theory, job satisfaction with emphasis on leadership and group task performance.

HRM 675 FOOD SERVICE RESEARCH (5) The planning, executing, and reporting of an individual research project dealing with significant problems in food service. Students demonstrate an understanding of research techniques through data collection, evaluation and interpretation.

HRM 680 FOOD SERVICE SYSTEMS (5) 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.

SCHOOL OF TECHNOLOGY

The School of Technology offers programs leading to the Bachelors degree in each of four fundamental technical fields: engineering technology, industrial technology, construction, and environmental technology and urban systems.

PROGRAMS

The programs of the School are directed toward the practical application of scientific, engineering and technical principles to the objectives of industry, business and the public. Programs range from those oriented toward careers in industrial management and supervision to those more directly associated with the sciences, mathematics and engineering or architecture, and are characterized by their emphasis on real applications, industrial operations and service. The School attempts to provide 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 satisfying personal growth.

Underlying the programs of the School is a recognition of the growing impact of technology upon the quality of life and that the proper application of technology is critical to meeting current and emerging needs of man.

The academic programs of the School are provided by its four divisions and are described below. Each division has several specified majors as well as a non-structured divisional major to meet the needs of individuals.

BACHELOR DEGREES

The School awards the Bachelor of Science degree (B.S.) to any student who completes the prescribed requirements in an Engineering Technology program (Electronic, Mechanical, Civil, Construction, Environmental, Urban Systems), Construction Management, Architectural Technology or Interior Design. A student who elects a non-structured divisional major (Industrial, Construction, Engineering Technology, Environmental and Urban Systems) may qualify for the Bachelor of Science degree or the Bachelor of Technology (B.T.) degree depending on the nature of his or her individualized program of study.

GENERAL DEGREE REQUIREMENTS

In order to obtain a Bachelors degree from the School of Technology, each student must satisfy the following minimum requirements:

- Obtain a minimum of 180 quarter credits including transfer credits. Some students require
 more than the minimum program in order to obtain the competencies and objectives of
 their selected major.
- 2. Take at least 45 credits in the School of Technology.
- 3. Satisfy the general education requirements for the bachelor degree by taking those courses at the community college or by a combination of transfer, CLEP and course credits awarded at the University. A student in an Engineering Technology program must normally obtain additional electives in the humanities and social sciences at the upper division in order to meet program objectives.
- Satisfy the particular requirements for his or her own major and all University requirements for graduation.
- Complete an approved program of study which must be filed with the advisor by the time
 he or she attains senior status (135 cr.) or at least two quarters prior to application for
 graduation.
- Have proficiency in the use of language and mathematics appropriate to his or her program and career objectives.

COOPERATIVE EDUCATION

A Coop Program is conducted by the School of Technology in conjunction with the Department of Cooperative Education in the Division of Student Services. In this program, a student spends alternate quarters fully employed in industry in a technical position directly related to his or her major and in school full-time. Academic credit (normally, 5 credits per quarter) is given for the work periods, which counts toward the degree. The student receives full pay for his or her work in industry. Placement in coop positions is arranged by the Coop Program and includes both local and national industrial, business and governmental agencies. A Coop student normally must agree to spend at least three work periods in industry and can normally complete the upper-division program within two calendar years. An applicant for the Coop Program is evaluated by the School of Technology. An interested student should contact the Associate Dean. Because of the requirement for three work periods, a student should enter the program during the first quarter of the junior year. Inquiries from lower-division students prior to transfer to the University are particularly encouraged since work periods may be arranged immediately upon enrollment.

EXTERNAL DEGREE

The School participates in the External Degree Program of the University. The External Degree student may enroll in a division major. Because of the technical and laboratory requirements of most programs, the School will consider admission of a student to its External Degree Program only under these conditions:

- 1. Completion of two years of college, preferably with a technical associate degree.
- 2. The inability to attend the regular program.
- Substantial work experience, with increasing responsibility, in the technical discipline of the proposed major.
- A favorable evaluation of the probability of completing the program and the availability of the necessary resources (at this University and at an external site) for the program.

ADMISSIONS AND PROGRAM PLANNING

ADMISSION REQUIREMENTS

All Bachelors degree programs of the School are designed to integrate the community college graduate (or junior-level transfer student) into curricula which have established certain minimum competencies or skills as the requirements for the four-year degree. Consequently, requirements may be met in a variety of ways and through various sequences which are accommodated at the freshman and sophomore level by College Parallel (A.A.) and Technical (A.S.) programs of the community colleges and by four-year colleges. The School admits to full junior standing a student who meets one of the following requirements:

- 1. Associate of Arts degree from an accredited community college, or...
- Associate of Science degree from an accredited community college in a technical discipline (the student with a non-technical A.S. degree should consult the Dean's Office for assistance and may be admitted to certain programs), or...
- 3. Junior level (90 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* degree (A.A. or A.S.) is normally awarded 90 transfer credits toward the Bachelors degree. A transfer student from a four-year college may not receive more than 135 credits of transfer toward the Bachelors 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, preferably to completion and certification, by selection of electives. For transfer purposes, the School views all Associate of

Arts degree programs equally. However, the college parallel student planning to major in Technology in this Schoal should select a pre-professional or pre-science major if it is available 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 caurses at the University or demonstrated in other ways. These alternative demonstrations include completion of equivalent courses at other colleges, significant and varied work experience, and non-traditional learning experiences. Since each student will 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 for his or her degree. The program of study must be approved by both the advisor and student and must be completed by the time the student reaches senior standing (135 hours) or at least two quarters prior to application for graduation. A student who does not comply with this requirement will delay his or her graduation.

DIVISIONAL MAJORS

Each division offers a non-structured divisional major in addition to its specified majors. The student selecting a divisional major develops an individualized program of study with an advisor which becomes the degree requirement after it has been approved by the School. A division major must satisfy all the graduation requirements of the School and University in a planned program. The School assumes no responsibility to apply courses to a division major which are taken prior to formal approval of a program of study. The divisional major is provided to meet special needs; consequently, most students will be enrolled in the specified majors and the School of Technology does not approve a division major unless special needs exist which it can meet. All students in Industrial Technology enroll in the divisional major and receive individualized programs of study. In order to obtain the Bachelor of Science degree in a division major, the student must complete a program including substantial coursework in mathematics (normally through calculus), science and related technology. Others receive the Bachelor of Technology degree. Determination of the degree to be awarded is a part of the preparation of the program of study.

STUDENT ADVISORS

A student who has been accepted to a degree program in the School of Technology must obtain and consult an advisor *prior* to the first class enrollment. The advisor assignment may be obtained by contacting the Office of the Dean or the Director of the Division in which an academic major is desired. Continued contact (at least once per quarter) with the advisor is urged in order to review progress and register. Such contact is *required* until an approved program of study is completed. Special advising problems or the student who is undecided about a technology major may be referred to the Associate Dean.

CREDIT FOR EXPERIENCE

The School will consider awarding credit-for-life experience of three basic types:

- A. Compressed courses or training programs such as college seminars, short courses, company seminars, company schools, union apprenticeship schools, and military technical schools.
- B. Regular courses taken from technical institutes or other institutions where normal transfer credit is not applicable.
- C. Work experience wherein the student gains applicable skills and knowledge.

Such credit may be awarded through examination or evaluation of work products. Evaluation of credit-for-life experience is, of necessity, a very rigorous process with awards given only for significant experiences that are fully documented and directly applicable to the student's program. Normally, evaluation is based on equivalency to courses required for graduation and credit is limited to a maximum of 25 quarter hours. A student must be fully accepted to a degree program

and normally should have completed at least two quarters of upper-division work (25 hrs.) prior to evaluation of life experience for credit. The student wishing consideration for such credit should discuss it with his or her advisor.

ACADEMIC APPEAL

The School endeavors to provide an atmosphere in which the special needs of each student are served. In the event that a student has difficulty in a class or curriculum matter, this should be immediately brought to the attention of the instructor or advisor involved. If resolution is not possible in this way, the student should call the matter to the attention of the Director of the Division responsible. If the problem still cannot be resolved, the student may appeal to the Dean of the School by stating the grievance in writing and requesting a review. The Dean may hear an appeal or refer the matter for consideration to an Appeals Committee appointed for that purpose.

SPECIAL FEATURES

The School is actively engaged in a number of special programs as a service to the community and the University. Among these activities are the support of the Technical/Vocational Education and Home Economics programs in technology-related service coursework. The Division of Construction hosts the *International Association for Housing Science*, an organization with membership from more than twenty nations dedicated to improving housing technology and production, as well as studying the inter-disciplinary aspects of housing. The Division of Environmental Technology and Urban Systems has developed and supports a Potamological Laborotory on the Miami River for environmental research activities and to provide assistance to the community in the preservation of that critical natural resource. The School provides numerous special courses and training institutes in cooperation with the Division of University Services and Continuing Education. Technology faculty are actively engaged with business, industry and government seeking the solution 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.

CONSTRUCTION DIVISION

The Construction Division of the School is dedicated to a multi-disciplinary approach to the construction industry. By selecting from the fields of Engineering, Architecture and Management, its programs develop a system of skills applicable to the complex and interrelated problems of development, construction and structures. As one of the major factors in our economy, the construction industry also plays a direct role in our quality of life and occupies a position of major concern in the curriculum of the University.

The Construction Division has five specific majors and the divisional major: Civil Engineering Technology, Construction Engineering Technology, Construction Management, Architectural Technology and Interior Design.

1. CIVIL ENGINEERING TECHNOLOGY — This program emphasizes a broad range of knowledge and skills necessary to participate in major projects such as construction, design and analysis of highways, waterways, buildings, transportation facilities, public works and development.

DEGREE: Bachelor of Science in Civil Engineering Technology

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: mathematics through calculus, physics, surveying, construction materials, engineering drawing, statics.

Remark: A student without the above skills may obtain them while completing his or her upper division program.

UPPER DIVISION PROGRAM:

		Quarter Hours
Major Requirements: *		59
CSN 305	Advanced Surveying I	5
CSN 326	Codes and Specifications	5
CSN 352	Strength of Materials	3
CSN 353	Determinative Structural Analysis	3
CSN 354	Soil Mechanics and Foundations	5
CSN 357	Indeterminate Structural Analysis	3
CSN 407	Site Development	5
CSN 413	Introduction to Geometric Design of Highways	5
CSN 451	Steel Design	5
CSN 455	Reinforced Concrete Design	5
ITE 300	Industrial Financial Decisions	5
MAS 311	Introduction to Computers	5
WQT 320	Applied Hydraulics	5
° or dem	anstrated competency	
Electives: se	lected with an advisor to meet degree	
	nts and program objectives (minimum required)	31
		_

(Minimum) 90

(Minimum) 90

2. CONSTRUCTION ENGINEERING TECHNOLOGY — This program offers a specialized treatment of the construction process. The emphasis is placed on technical courses in fundamentals of construction, management of personnel and equipment, inspections, mechanical and structural design, construction economy, construction materials, construction methods, system analysis, conceptual study and operations research skills.

DEGREE: Bochelor of Science in Construction Engineering Technology

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: mathematics through calculus, physics, surveying, construction materials, engineering drawing, statics.

Remark: A student without these skills may obtain them while completing his or her upper division program.

UPPER DIVISION PROGRAM:

		Quarter Hours
Major Requ	virements: *	65
CSN 305	Advanced Surveying I	5
CSN 306	Construction Methods and Equipment	3
CSN 320	Construction Cast Estimating	5
CSN 322	Construction Costs and Scheduling	5
CSN 326	Codes and Specifications	5
CSN 328	Building Systems	3
CSN 330	Management of Construction Projects	3
CSN 352	Strength of Materials	3
CSN 353	Determinate Structural Analysis	3
CSN 354	Soil Mechanics and Faundations	5
CSN 407	Site Development	5
CSN 457	Structural Design	5
ITE 300	Industrial Financial Decisions	5
MAS 311	Introduction to Computers	5
MET 360	Mechanical Systems in Construction	5
°ar dem	onstrated competency	
Electives: S	elected with an advisor to meet degree	
requireme	nts and program objectives (minimum required)	25
		_

3. CONSTRUCTION MANAGEMENT — This program consists of caurses from disciplines related to the construction industry. The emphasis is placed on technical 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.

DEGREE: Bachelor of Science in Construction Management

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: algebra and trigonometry, surveying, construction materials, drawing or drafting.

Remark: A student without these skills may obtain them while completing his or her upper division program.

UPPER DIVISION PROGRAM:

TER DIVISIO	SITT ROOKAM.	Quarter Hours
Major Requirements:*		66
CSN 306	Construction Methods and Equipment	3
CSN 320	Construction Cost Estimoting	5
CSN 322	Construction Costs and Scheduling	5
CSN 326	Codes and Specifications	5
CSN 330	Management of Construction Projects	3
CSN 331	Economic Planning for Construction	3
CSN 332	Legal Aspects of Construction	3
CSN 350	Mechanics of Materials	5
CSN 400	Road Construction	
CSN 402 or	Heavy Construction	3
CSN 404	Building Construction	
CSN 407	Site Development	5
CSN 426	Construction Labor Laws	3
CSN 429	Quality Control in Construction	5
CSN 450	Structural Systems	5
ITE 300	Industrial Financial Decisions	5
ITE 485	Engineering Economy	5
ITE 351	Construction Safety	3
°or dem	onstrated competency	
Electives: se	elected with an advisor to meet degree	
requiremen	nts and program objectives (minimum required).	24
		(Minimum) 90

ARCHITECTURAL TECHNOLOGY — This program gives the student a multidisciplinary knowledge of the various fields related to Architecture. The emphasis is placed on the technical aspects of handling an architectural project within the office or on-site in conjunction with the professional architect. The managerial, technical and administrative requirements of the field include: Cost estimating, field management, systematic approach to building design, preparation of working drawings and detail drawings, specification writing, structural design, job supervision and office practice. Topics related to Housing Science may be included as a part of this program.

DEGREE: Bachelor of Science in Architectural Technology

LOWER DIVISION PREPARATION: completion of an Associate degree program in architectural technology or pre-architecture or acodemic credit or proven competency in the following areas: algebra and trigonometry (or technical mathematics), construction materials, architectural drawing, technical writing, building codes.

UPPER DIVISION PROGRAM:

		Quarter Hours
Major Requ	virements *	86
CSN 320	Construction Cost Estimating	5
CSN 322	Construction Costs and Scheduling	5
CSN 325	Cost Estimating by Computer	3
CSN 328	Building Systems	3
CSN 331	Economic Planning for Construction	3
CSN 332	Legal Aspects of Construction	3
CSN 345	Graphics Communication	3
CSN 350	Mechanics of Materials	5
C\$N 370	Architectural Concepts of Construction	5
CSN 376	Advanced Architectural Drawing I	5
CSN 377	Specification Writing	5
CSN 407	Site Development	5
CSN 426		3
CSN 429		5
CSN 457		5 5 5
CSN 480		5
CSN 482	Architectural Office Practice	5
MET 360	Mechanical Systems in Construction	5
EET 314	Electrical Systems in Construction	5
ITE 351	Construction Safety	3
	nonstrated competency	
Electives: se	elected with an odvisor to meet degree	,

requirements and program objectives (minimum requirement)

(Minimum) 90

5. INTERIOR DESIGN — This program develops the ability to integrate design including basic design elements, space relationships, materials, structural considerations and the interior environment. It includes consideration of industrial, commercial and residential systems.

DEGREE: Bachelor of Science in Interior Design

LOWER DIVISION PREPARATION: completion of an Associate degree in interior design or related area.

UPPER DIVISION PROGRAM:

		Quarter Hours
MAJOR RE	QUIREMENTS: *	89
Caurses to	be selected from the following:	
CSN 301	Construction Materials	5
CSN 320	Construction Cost Estimating	5
CSN 326	Codes and Specifications	5
CSN 328	Building Systems	3
CSN 329	Housing and Culture	3
CSN 340	Survey of Interior Design	3
CSN 373	Interior Design	3
CSN 383	Residential Interiors	5
CLT 337	Basic Textiles	3
PSY 410	Environmental Psychology	5
ARH 305	Survey of the Contemporary Arts	5
ITE 351	Construction Safety	3
CSN 332	Legal Aspects of Construction	3
CSN 370	Architectural Concepts of Construction	5
CSN 375	Architectural Innovations for Construction	5
CSN 380	Exterior Design	3
CSN 430	Home Furnishings and Equipment	5
CSN 480	Advanced Architectural Drawing II	5
CSN 473	Commercial Interiors	5
CSN 474	Institution Interiors	5
CSN 475	Industrial Interiors	5
°or dem	nonstrated competency	
Electives: se	elected with an advisor to meet degree	
requireme	nts and program objectives	1
		(Minimum) 90

ENVIRONMENTAL TECHNOLOGY AND URBAN SYSTEMS DIVISION

This Division is dedicated to improving the quality of life through technology. There is a great need for individuals qualified to plan, design, maintain, manage, and operate in technology without causing injury to man or damaging his environment.

The Environmental Technology and Urban Systems Division has two specific majors and the divisional major: Environmental Engineering Technology and Urban Systems Engineering Technology.

Programs of study in both of these majors provide the student with a strong background which offers not only a comprehensive overview of environmental and urban systems, but also prepares the individual for employment in any one of several careers.

Each major consists of a basic core, a technical specialization, two hours of seminar credit and five hours of independent study. The independent study is equivalent to an under-graduate thesis which must be successfully completed and defended. Through selection of electives, a student may incorporate work from business administration, economics, sociology, natural, physical or social sciences. Courses offered by the Engineering Technology, Industrial Technology and Construction Divisions in the School of Technology provide a means of broadening the student's technical background.

1. ENVIRONMENTAL ENGINEERING TECHNOLOGY — This program has been designed to give the student a broad, interdisciplinary background which deals with Pollution Control, Aquatic Resources, Environmental Management, Sanitation, Environmental Protection, Solid Waste, Water Treatment and Waste Water Technology. The program of study in this major

reflects its fundamental interdisciplinary philosophy and must provide for a technical specialization in one of the following options: Air Quality, Aquatic Resources, Environmental Quality Protection and Water Quality Technology.

DEGREE: Bachelor of Science in Environmental Engineering Technology

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: mothematics through calculus, physics, chemistry, biology.

Remark: A student without these skills may obtain them while completing his or her upper division pragram. UPPER DIVISION PROGRAM:

		Quarte	r Hours
Core Course	es: *		45
WQT 320	Applied Hydraulics	5	
WQT 330	Water Resources	5	
AQT 351	Air Resources	5	
EPR 320	Environmental Health	5	
UPT 316	Urban Planning Concepts	5	
TEY 355	Technical Communications	3	
EPR 335	Environmental Instrumentation	5	
TRT 300	Introduction to Transportation Systems	5	
ETS 490	Seminar	2	
ETS 495	Independent Study	5	
°or dem	onstrated competency		
Specializati	on: one of the following areas:		20
	AIR QUALITY		
AQT 352	Air Sampling and Analysis	5	
AQT 353	Air Pollution Control Systems	5	
	Air-Water Interface Ecology	,	
AQT 462	Air Pollution Administration	5	
7.4	AQUATIC RESOURCES	· ·	
WQT 365	J.	5	
WQT 366	0,	5	
	Aquatic Resources	5	
WQT 368	Marine Technology	5	
	ENVIRONMENTAL QUALITY PROTECTION		
EPR 350	Industrial and Environmental Toxicology	5	
EPR 375	Environmental Management	5	
EPR 440	Vector and Pest Control	5	
ETS 481	Recent Concepts in Environmental Technology Systems	5	
	WATER QUALITY TECHNOLOGY		
WQT 332	Water Supply Technology	5	
WQT 450	Wastewater Processes 1	5	
WQT 451	Wastewater Processes II	5	
WQT 452	Wastewater Treatment Technology	5	
°or dem	onstrated competency		
Electives: se	lected with an advisor to meet degree		
	ats and program objectives. (minimum required)		25
	14	Minimum)	90
	(/	viiriimum)	70

2. URBAN SYSTEMS ENGINEERING TECHNOLOGY — This pragram prepares the student for a career in the transportation and urban planning fields and emphasizes the view of the urban area as a complex *system* with various interacting elements. The curriculum enables the individual to contribute as a member of an interdisciplinary team in shaping the future grawth of cities and regions. Courses in this pragram provide the student with an understanding of both the conceptual and analytical techniques emplayed in planning cities and designing transportation facilities.

Two areas of technical specialization are available in the Urban Systems Engineering Technology major: Urban Planning and Transportation Systems.

DEGREE: Bachelor of Science in Urban Systems Engineering Technology

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: mathematics through calculus, physics, surveying, engineering drawing.

Remark: A student without these skills may obtain them while completing his or her upper division program. UPPER DIVISION PROGRAM:

I EK DIVISIC	THI NOOKAM.	
		Quarter Hours
Major Requi	rements: *	45
	URBAN PLANNING	
UPT 316	Urban Planning Concepts	5
UPT 411	Urban Land Use Planning	5
CSN 407	Site Development	5
UPT 410	Planning Implementation	5
EPR 375	Environmental Management	5
	Water Resources	5
AQT 351	Air Resources	5
TEY 355	Technical Communications	3
ETS 490	Seminar	2
	Independent Study	5
	OR	
	TRANSPORTATION SYSTEMS	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
TRT 300	Intraduction to Transportation Systems	5
TRT 420	Transportation Planning	5
TRT 402	Traffic Engineering Technology	5
TRT 412	Traffic Control Devices	5
	Intraduction to Geometric Design of Highways	5
	Water Resources	5
AQT 351	Air Resaurces	5
	Technical Communications	5
ETS 490	Seminar	2
	Independent Study	5
or dem	onstrated campetency	
Restricted E	ectives: every student must select	
	of the following courses:	20
	Intraduction to Statistics	5
MAS 311	Introduction to Computers	5
ITE 485	Engineering Economy	5
ECO 320	Introduction to Urban Ecanomics	5
ECO 321	Regional Economics	5
UPT 316	Urban Planning Concepts	5
TRT 300	Introduction to Transportation Systems	5
HIS 430	Urban History	5
SOC 451	Urban Sacialogy	5
POS 323	Urban Politics	5
CSN 320	Canstruction Cast Estimating	5
Other Election	ves: selected with an advisor to meet	
	ements and pragram objectives (minimum required).	25
		_
		(Minimum) 90

MINORS — The Division of Environmental Technology and Urban Systems offers minors for the student who wishes to obtain certain skills or knowledge in the Environmental and Urban field without necessarily pursuing a major. A Minor Program is open to a student from any School or the College, as well as any other major in Technology. The following 25 credit sequences constitute minors:

Air Quality Technology: AQT 351, AQT 352, AQT 353, AQT 460, AQT 462.

Aquatic Resources: WQT 330, WQT 365, WQT 366, WQT 367, WQT 468.

Environmental Quality Protection: EPR 320, EPR 350, EPR 375, EPR 440, EPR 481.

Water Quality Technology: WQT 320, WQT 332, WQT 450, WQT 451, WQT 452.

Transportation Systems: TRT 300, TRT 402, TRT 412, TRT 420, CSN 413.

Urban Planning: UPT 316, UPT 411, CSN 407, UPT 410, TRT 300.

ENGINEERING TECHNOLOGY DIVISION

The student who wishes to enter a technical position which emphasizes the practical application of engineering concepts in areas such as manufacturing, production, design, installation, operation, administration, service and sales will be served by the programs of the Engineering Technology Division. Its programs are designed to give each student technical and organizational know-how which satisfies the needs of industry, business and government in many rewarding technical careers. The graduate of an Engineering Technology Bachelor's Degree program is a technical problem solver with the skills and training necessary far independent action as a part of the Engineering team.

The abjectives of the programs include: proficiency in the use of the scientific method; the capability to analyze problems through Calculus; the application of processes, equipment, procedures and methods to industrial problems; the knowledge of a field of specialization including the underlying sciences; individual judgment, initiative and resourcefulness; capability af establishing an effective rapport with warkmen, scientist, managers and customers; and effective communication skills.

Two majors are offered in the Division of Engineering Technology in addition to the division major: Electronic Engineering Technology and Mechanical Engineering Technology.

1. ELECTRONIC ENGINEERING TECHNOLOGY — This program offers specialization in the application of electronic concepts including circuit analysis and design, communications, pawer, process control, digital systems and related topics.

DEGREE: Bachelor of Science in Electronic Engineering Technology

LOWER DIVISION PREPARATION: Completion of a community college associate program in electronics technology, electrical technology, pre-engineering or the equivalent at a four-year institution. An entering student with an Associate of Science degree in Technology should have completed Algebra and Trigonometry, Physics, DC and AC Circuits, Transistor Theory and Circuits, Semi-Conductor Devices and Digital Circuits prior to transfer. Pre-Engineering (Associate of Arts) or other transfer students should have completed Mathematics through Calculus, Physics (with Electricity) and other sciences at the lower division. The student whose background does not include all of these skills (in either Technology or pre-Engineering) may be admitted with deficiencies which must be made up while enrolled at Florida International.

UPPER DIVISION PROGRAM:

		Quarter Hours
Core Cours	ses: *	25
**EET 31	6 Advanced Circuit Analysis	5
EET 416	Advanced Circuit Analysis II	5
EET 428	Electronic Circuit Analysis	5
EET 430	Integrated Circuit Analysis and Application	
	(lecture 4 credits, laboratory 1 credit)	5
EET 498	Group Projects	5
°or o	demonstrated competency	
two into An As comple	student with a pre-engineering background must take roductory circuit courses prior to enrolling in the core. sociate of Science graduate without calculus must tee MAS 301 (or equivalent) prior to the core and must concurrently in MAS 302.	
TECHNICA	L SPECIALIZATION: one of the following areas:	20
	ELECTRICAL POWER	
EET 314	Electrical Systems in Construction	5
EET 318	Electric Motor Controls	5
EET 415	Electrical Power Systems	5 5
	One Elective	5
	PROCESS CONTROL	
EET 320	Process Contral Technology	5
EET 420	Process Control Instrumentation	
	(lecture 2 credits, lab 3 credits)	5
EET 422	Advanced Control Systems	5
EET 468	Digital Process Control Systems	
	(lecture 4 credits, lob 1 credit)	5

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ELECTRONIC COMMUNICATIONS

EET 340	Modern Communication Technology	5
EET 342	Transmission System for Cammunication	
	(lecture 3 credits, lab 2 credits)	5
EET 440	Data Communication Technology	
	(lecture 4 credits, lob 1 credit)	5
EET 466	Passive and Active Filters	5
	DIGITAL SYSTEMS	
COT 300	Logic Design (lecture 4 credits, lob 1 credit)	5
COT 304	Advanced Computer Systems (lecture	
	4 credits, lab 1 credit)	5
COT 404	Advanced Logic Design	5
COT 406	Computer Peripherals and Interfacing	5
Electives: se	lected with an advisor to meet degree	
	nts and program objectives (minimum required).	45
		_
		(Minimum) 90

2. MECHANICAL ENGINEERING TECHNOLOGY — This program offers specialization in the application of energy, materials, mechanics, and design to industrial problems.

DEGREE: Bachelor of Science in Mechanical Engineering Technology

LOWER DIVISION PREPARATION: academic credit or proven competency in the following areas: Mathematics through Calculus, Physics, Engineering Drowing, Statics.

Remark: a student without these skills may obtain them while completing his or her upper division program. UPPER DIVISION PROGRAM:

		Quarter Hours
Major Requir	ements: *	53
CSN 352	Strength of Materials	3
MET 300	Manufacturing Processes I	5
WQT 320	Applied Hydraulics	5
MET 353	Basic Materials	5
MET 351	Dynamics	5
MET 362	Mechanical Design I	5
MET 459	Applied Thermodynomics	5
MET 485	Engineering Economy	5
ITE 300	Industrial Financial Decisions	5
EET 300	Survey of Electronics	5
MAS 311	Introduction to Computers	5
°or demo	nstrated competency	
Electives: sele	cted with an advisor to meet	
degree requ	irements and program objectives	
(Minimum re	quired).	37
		(Minimum) 90
		(/4(///////////////////////////////////

INDUSTRIAL TECHNOLOGY DIVISION

The individual who wishes to acquire a technical supervision and management background which emphasizes industrial operations will be served by Industrial Technology. Each Industrial Technology major is enrolled as a divisional major and receives an individualized program of study. By careful planning, and the application of courses available in the School and elsewhere in the University, it is possible to provide for specialization which responds to the needs of a wide variety of industrial settings.

Industrial Technology is defined as a profession in which an understanding of the technical terminology of industry provides a capability of performing technical liaison between management, engineer, scientist, technician, craftsman and customer. The work of the industrial technologist has some characteristics of Engineering Technology and many of the qualities associated with management.

The objectives of the program are: to develop an understanding of the technical aspects of industry; to become familiar with terminology used in industry; to develop supervisory skills involving specialized knowledge, analytical ability and management tools; to develop leadership skills;

ta effect individual judgment and initiative; to establish effective communications with scientist, managers, engineers, customers and warkers.

DEGREE: Bachelor of Science or Bochelor of Technology in Industrial Technology

LOWER DIVISION PREPARATION: completion of a community college Associate program or have attained juniar standing in a four-year institution. An Associate of Science degree graduate should have earned the degree in the field of his or her intended concentration in the upper division program.

UPPER DIVISION PROGRAM:

Major Requirements and Electives:

The student must complete a planned individualized pragram of study, including a caherent specialization which is approved by the Schaal of Technology. The pragram must be written to satisfy the educational objectives of the Industrial Technology Division and career objectives of the student (see Divisional Majar, Page 4). Programs may include specialization in a variety of fields including: Industrial Operations, Communications, Safety, Manufacturing, Fashion Merchandising, Industrial Sales, and Faad Technology.

Quarter Hours

/ (

90

COURSE OFFERINGS

COE 340 COOPERATIVE EDUCATION TECHNOLOGY (5) Supervised full-time work quarter for Technology Cooperative Education students. Limited to students admitted to the Coop Program with consent of advisor. Evaluation and reports required.

COE 440 COOPERATIVE EDUCATION TECHNOLOGY (5) Supervised full-time work quarter for Technology Cooperative Education students. Limited to students admitted to the Coop Program with consent of advisor. Evaluation and reports required.

TEY 300 TECHNOLOGY AND FUTURE SOCIETY (5) The impact of social, economic, and political factors on technology, and vice-versa. Technology forecasting and assessment. Plans and policy for technology-based enterprises. Plans and policy as examples of technology (scientific management, systems analysis, operations research, etc.) Technology transfer; creativity and innovations; technology utilization.

TEY 301 TECHNOLOGY AND MAN (5) A humanizing view of man in today's technologically advanced world. Discussion of the interaction between technology and man's motivational, emotional decision and control functions. Examination of man's gregarious nature in an impersonal world of designed environment.

TEY 302 INVENTING THE FUTURE (5) Elementary and advanced creativity techniques. Inventing social futures. Forecasting and planning. Futures research, criteria of social, technological economic and political feasibility. Diagnasing and overcoming resistance to change.

TEY 320 TECHNOLOGY FOR OCCUPATIONAL THERAPY (5) The basic properties of waods and metals and the techniques used by occupational therapists in planning a project based on a hypothetical patient's problem.

TEY 355 TECHNICAL COMMUNICATIONS (3) The goal of this course is to give the student an understanding of the role of grophic and written language in the canception and communication of technical ideas. The course is flexible in arder to accammodate different backgrounds in the students. Basic graphical methods including multiview and isametric drowings; flow diagrams; charts, graphs and diagrams; graphical presentation of data; use of resource materials in the library, and standards for written reports are discussed.

CONSTRUCTION

CSN 300 SURVEYING (5) Computations and field procedures associated with measurement of distances, directions and angles, using the tape, level and transit.

CSN 301 CONSTRUCTION MATERIALS (5) A study of the origin, production and uses of construction materials, such as concrete, steel, aluminum, plastics, wood, brick and stone.

CSN 305 ADVANCED SURVEYING I (5) Computations and field procedures for earthwork and horizontal and vertical curves. Application in establishing horizontal and vertical control in boundary determinations, construction sites, and mapping. Topographical mapping and principles of photogrammetry. Prerequisite: CSN 300 ar equivalent.

CSN 306 CONSTRUCTION METHODS AND EQUIPMENT (3) Methods, procedures, and equipment used in residential, commercial and heavy construction. Equipping the construction plant. Production value analysis. Work effectiveness studies.

CSN 307 ADVANCED SURVEYING II (3) Engineering Astronomy, triangulation control, urban surveying and platting, legal aspects of surveying, public land surveys and land description. Precision surveying with emphasis on errors. Prerequisite: CSN 305.

CSN 320 CONSTRUCTION COST ESTIMATING (5) Principles and theories of estimating, classification of work, and quantity survey techniques providing knowledge and skill as applied to various types of construction projects.

CSN 322 CONSTRUCTION COSTS AND SCHEDULING (5) The application of the Critical Path Method and Program Evaluation Review Technique to construction planning, scheduled vs. actual job expenditures. Cost forecosting. Development of unit prices from field data. Prerequisite: CSN 320.

CSN 325 COST ESTIMATING BY COMPUTER (3) Computer based cost analysis and conceptual cost estimation. Cost standard synthesis, learning curves models for pricing and control. Functions involving the use of the computer during planning, designing and construction phases of complex projects. Prerequisite: CSN 322.

CSN 326 CODES AND SPECIFICATIONS (5) A study of codes required by local, county, and state levels. The writing and reading of specifications. Bidding procedures. The relationships between the contractor, engineers-architects, owners, subcontractors, and material suppliers.

CSN 328 BUILDING SYSTEMS (3) An introduction to the problems relating to the theory and the development of building construction. The investigation of problems relating to the distribution of functions in various types of construction, (commercial, industrial or public buildings) the selection and placement of various facilities for optimum utilization of the building.

CSN 329 HOUSING AND CULTURE (3) Study of housing by various cultures with emphasis to space considerations, construction and furnishings, and the socio-economic factors. Survey of the latest housing trends.

CSN 330 MANAGEMENT OF CONSTRUCTION PROJECTS (3) Organization and management theory for construction. Elements of leadership and human supervision. Contractor organization, office operations, project management, labor relations, and safety requirements. Prerequisite: CSN 322 and CSN 326 or equivalent.

CSN 331 ECONOMIC PLANNING FOR CONSTRUCTION (3) Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation. Cash flow theory, depreciation and tax theory, variable costs, and profitability analysis. Basis of economic choice in construction decisions. Prerequisite: CSN 320.

CSN 332 LEGAL ASPECTS OF CONSTRUCTION (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, poyments, risk and insurance, inspection, liquidated damages, and technical requirements. Prerequisite: CSN 326 or equivalent.

CSN 340 SURVEY OF INTERIOR DESIGN (3) Application of basic design and management principles to the planning of the spaces and furnishings for the home. Emphasis will be on the evaluation of existing floor plans and decorating schemes, but the student will have the opportunity to do some original design work.

CSN 345 GRAPHICS COMMUNICATION (3) Form-space studies using perspective illustration, sectioning and detoiling through freehand and instrument drawing and models. Graphic color experiments developing color use as a tool through various media.

CSN 350 MECHANICS OF MATERIALS (5) Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Prerequisite: Consent of instructor.

CSN 351 STATICS (3) Study of forces acting on bodies, including coplanar and non-coplanar forces, concurrent and non-concurrent forces, friction forces, and hydrostatic forces. Prerequisite: Consent of instructor.

CSN 352 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: CSN 351 or equivalent.

CSN 353 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. Prerequisite: CSN 351.

CSN 354 SOIL MECHANICS AND FOUNDATIONS (5) Identification and properties of soils. Behavior of soils relating to design and construction of foundations for structures and pavements. Prerequisite: CSN 350 or CSN 352.

CSN 357 INDETERMINATE STRUCTURAL ANALYSIS (3) Analysis of statically indeterminate structural systems by analytical methods. Development and use of theorems of moment area, conjugate beam, elastic weights, virtual work, slope deflection, and moment distribution. Moving loads and influence lines. Prerequisite: CSN 353.

CSN 370 ARCHITECTURAL CONCEPTS OF CONSTRUCTION (5) An examination of architectural design ideas and construction involving structural systems, materials, design standards and codes in a manner they can be utilized effectively. Original ideas encouraged.

CSN 372 INTERDISCIPLINARY ASPECTS OF HOUSINGS (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.

CSN 373 INTERIOR DESIGN (3) Developing a more integrated study of design to use in furnishing interiors using theoretical and technical aspects of the field. Encouraging originality.

CSN 375 ARCHITECTURAL INNOVATIONS FOR CONSTRUCTION (5) Specialized study in an orea of interest to the student where architectural design is used with new methods of construction due to advancing technological developments. Drawings and field surveys. Prerequisite: Consent of instructor.

CSN 376 ADVANCED ARCHITECTURAL DRAWING I (5) Methodology of planning and preparation of Architectural Drawings with special emphasis on Working Drawings and Detail Drawings. Prerequisite: Consent of instructor.

CSN 377 SPECIFICATION WRITING (5) Study of information acquisition on legal and technical aspects of construction, preparation of outline specifications, building description and purchasing specifications. Problems of format, reviewing, and updating. Prerequisite: CSN 376.

CSN 380 EXTERIOR DESIGN (3) An equal balance of honest and varied design expressing an outer expression of interior living. Presentation drawings and quantity surveys.

CSN 383 RESIDENTIAL INTERIORS (5) Consideration and application of design criteria including floor, wall and ceiling materials and treatments, furniture selection and arrangement, illumination, ventilation and selected architectural details for residential spaces.

CSN 400 ROAD CONSTRUCTION (3) A study of construction procedures and equipment utilized in road and highway construction. Familiarization with standard methods required for various governmental agencies. Layout and inspection procedures. Prerequisite: CSN 301 and CSN 305 or equivalent.

CSN 402 HEAVY CONSTRUCTION (3) A study of construction procedures and equipment utilized in constructing heavy engineered service systems. Typical projects are airports, irrigation, rapid transit systems, harbor, pipelines, dams, tunnels, bridges, canals, mass earthwork, sewer and water systems, and other heavy public works. Prerequisite: CSN 300 and CSN 306.

CSN 404 BUILDING CONSTRUCTION (3) A study of the types of construction and materials used for various sections of buildings. Equipment and methods of building construction. Inspection procedures for equality building construction in accordance to specifications, codes, standards, and agencies' recommendations. Prerequisite: CSN 306 and CSN 326 or equivalent.

CSN 405 FOUNDATIONS DESIGN AND CONSTRUCTION (5) 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. Prerequisites: CSN 354 or equivalent.

CSN 407 SITE DEVELOPMENT (5) Fundamentals of the art of site planning; physical, economic, social and governmental constraints affecting development; zoning; land use controls; subdivision layout; modular design; site characteristics (soil, geology, topography), drainage, access. Design and construction techniques. Prerequisite: Consent of instructor.

CSN 413 INTRODUCTION TO GEOMETRIC DESIGN OF HIGHWAYS (5) Route surveys by ground and aerial methods-reconnaissance, preliminary and location surveys; geometric properties of highway curves; spiral theory; design controls for both vertical and horizontal alignments. Prerequisite: CSN 300.

CSN 426 CONSTRUCTION LABOR LAWS (3) A study of the common law and statutory law affecting union-management relations in construction, with emphasis on current labor legislation including such areas as the National Labor Relations Act and amendments, the Railway Labor Act, wage and hour legislation, workmen's campensation, unemployment compensation and social security laws. Occupational safety and health hazards associated with construction labor. Prerequisite: CSN 326.

CSN 428 SYSTEMS APPROACH FOR HOUSING PLANNING (3) Discussions of basic concepts of systems analysis and systems approach to the field of housing planning. The advantages of systems approach. Case studies. Prerequisite: CSN 372 or equivalent.

CSN 429 QUALITY CONTROL IN CONSTRUCTION (5) Quality control as governed by the job inspector, contractor superintendent, architect-engineer, building commissioner, and governmental agencies and requirements.

CSN 430 HOME FURNISHINGS AND EQUIPMENT (5) Principles involved in the construction, selection, operation and care of household furnishings and equipment and their relation to the well-being of the family.

CSN 450 STRUCTURAL SYSTEMS (5) A general study of the methods of structural systems; such as beams, columns, rigid frames, arches, trusses, floors, enclosure systems, and various foundation configurations. The limitations of using various structural materials for the systems will be discussed. Prerequisite: CSN 350 or CSN 352.

CSN 451 STEEL DESIGN (5) The analysis and design of structural elements and connections for buildings, bridges and specialized structures utilizing structural steel. Both elastic and plastic designs are considered. Prerequisite: CSN 353.

CSN 452 TIMBER DESIGN (5) The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; fosteners and their significance in design. Prerequisite: CSN 352 or equivalent.

CSN 455 REINFORCED CONCRETE DESIGN (5) The analysis and design of reinforced concrete beams, columns, slabs, retaining walls, and footings. Both the working and ultimate strength design methods will be discussed with primary emphasis corresponding to recent ACI Building Code. Prerequisite: CSN 357.

CSN 457 STRUCTURAL DESIGN (5) Elements of structural design in steel, reinforced concrete, and timber with design specifications per AISC, ACI and NDS. Introduction to prestressed concrete design. Loadings and structural elements commonly encountered in construction will be used for analysis and design. Prerequisite: CSN 350 or equivalent.

CSN 470 HOUSING AND ENVIRONMENT (3) The impact of housing planning 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: CSN 372.

CSN 471 BASIC UTILITIES AND HOUSING (3) The study of the importance of basic utilities such as roads, sewer and water supply systems in the 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.

CSN 473 COMMERCIAL INTERIORS (5) Analysis, synthesis, articulation and design execution of commercial spaces, integrating human factors, environmental-technological systems, activity structure and symbiotic relationships as space design determinates. Consideration of significant aspects of culture, design components, and merchandising procedures.

CSN 474 INSTITUTION INTERIOR (5) Analysis and synthesis of institutional functions, administrative controls, resources, constraints and policies in planning and design of institutional facilities. Consideration of esthetic, social, economic, behavioral and environmental parameters. Selection and design of selected furnishings and components.

CSN 475 INDUSTRIAL INTERIORS (5) Articulation and analysis of industrial spatial planning and design, integrating economic, social, psychological, perceptual and cultural factors into the design process. Coordination of furnishings, equipment, graphic design, color, illumination and acoustics. Emphasis on human factors, scale and service movements.

CSN 479 ARCHITECTURAL DESIGN (5) Integrated study of design, basic design elements and principles of design in awareness of effect on architectural design. Presentation drawings, plans and quantity surveys. Prerequisite: Consent of instructor.

CSN 480 ADVANCED ARCHITECTURAL DRAWING II (5) New techniques in the preparation of working drawings, detail drawings, inclusion of change orders. Preparation of finish schedules with correlation to specifications writing. Prerequisite: CSN 376.

CSN 482 ARCHITECTURAL OFFICE PRACTICE (5) Assignments on office administration, negotiation of contracts, fee structure, client and public relations. Business organization and procedure scheduling and task allocation within an architectural office. Prerequisite: Consent of instructor.

CSN 495 INDEPENDENT STUDY (1-5) Specialized intensive study in on area of special interest to the student. Consent of instructor is required.

CSN 497 SPECIAL TOPICS (1-5) For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor is required.

CSN 512 PAVEMENT DESIGN (5) Analysis and design of sub-base, base and pavement of a roadway. Discussions of flexible pavement and rigid pavement os structural units. Boussinesq's approach, Westergoord's theory. Beams on Elastic Foundations. Prerequisite: CSN 354 or consent of instructor.

CSN 513 ADVANCED GEOMETRIC DESIGN OF HIGHWAYS (5) Porameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines; o design project required. Prerequisite: CSN 305 and CSN 413.

CSN 556 PRESTRESSED CONCRETE DESIGN (5) The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete members and using these members into the integral structure. Prerequisite: CSN 455 or equivalent.

CSN 557 ADVANCED STRUCTURAL DESIGN (5) The design of structural systems to formalize the student's knowledge of the behavior of individual components into a final integrated structure. Continuous span and simple span highway bridges, culverts, retaining walls, rigid frames, multi-storied buildings and similar type problems of interest to the student. Prerequisite: CSN 451 and CSN 455.

CSN 564 COMPUTER APPLICATIONS IN CONSTRUCTION (5) The discussion of vorious available computer programs related to different construction operations. Applications of some of these programs. Prerequisite: Consent of instructor.

CSN 570 INNOVATIONS IN BUILDING TECHNOLOGY (3) Possible changes made or to be made with odvancing technological developments offecting the building industry. Prerequisite: Consent of instructor.

CSN 572 HOUSING FOR DEVELOPING COUNTRIES (3) Problems faced by the developing countries in housing their population. Political, economic, social and technical considerations in decision process. Prerequisite: CSN 372 or equivalent.

AIR QUALITY TECHNOLOGY

AQT 351 AIR RESOURCES (5) This course is concerned with providing the student with a basic training in the physical and chemical nature of air pollution, the laws governing the behavior of gases and oerosols, the relation of major sources of contaminants to atmospheric concentrations faund to exist in urban and industrial community environments and the fundamental principles of technological control methods.

AQT 352 AIR SAMPLING AND ANALYSIS (5) A comprehensive source sampling program with emphasis on site survey, source testing and calculation. The topic of analytical procedures, design of source sampling trains, and sampling monitors are stressed. Prerequisite: AQT 351.

AQT 353 AIR POLLUTION CONTROL SYSTEMS (5) Introduction to the operation of the various types of air pollution control devices. Theory as well as practice is emphasized. Prerequisite: AQT 352.

AQT 444 NOISE (5) Fundamentals of sound. Measurement and analysis of sound and noise. Survey of measurement systems and techniques. The sources and control of noise. Materials for noise control. Vibration fundamentals.

AQT 460 AIR-WATER INTERFACE ECOLOGY (5) An environmental evaluation of the relationship between the atmosphere and the water surface in natural aquatic eco-systems.

AQT 462 AIR POLLUTION ADMINISTRATION (5) Emphasis is placed on the utilization of information systems, cost benefit analysis and budget control principles used to interpret Federal requirements for state and local governments.

ENVIRONMENTAL QUALITY PROTECTION

EPR 320 ENVIRONMENTAL HEALTH (5) The effects of environmental pollutants on man's health and the quality of life.

EPR 335 ENVIRONMENTAL INSTRUMENTATION (5) Laboratory techniques, skills and safety. Basic laboratory instrumentation. Environmental sampling devices. Sample preservation and storage.

EPR 350 INDUSTRIAL AND ENVIRONMENTAL TOXICOLOGY (5) Basic aspects of toxicology. Effects, assessment and control of physical and chemical toxic agents in the environment. Industrial hygiene and safety practices. Occupational diseases. The quality of life in the urban environment. The disposal of toxic wastes and the impact on the environment. The concept of food chains and biological magnification. Toxic residuals in the environment.

EPR 375 ENVIRONMENTAL MANAGEMENT (5) The wise use of land and water for parks and recreational areas. The environmental design and need for green spaces. Ecologically safe methods for the control of vegetation and insects are emphasized.

EPR 430 SOLID WASTE MANAGEMENT (5) A study of the technological aspects of collection, transport and disposal of municipal, industrial and agricultural solid wastes. Methods of disposal; biochemical, ecological and energetic considerations. Recovery and recycle of wastes.

EPR 440 VECTOR AND PEST CONTROL (5) Occurrence and control of communicable diseases. The role of vectors and their control. Sanitation of food production, processing, and distribution. Population and resources: the challenge to produce more food. The Green Revolution. Pest control: chemical and biological agents. Diversity and stability of eco-systems. Pesticides and risks in their use.

EPR 445 ENVIRONMENTAL INSTRUMENTATION (5) Theory of and laboratory practice in the opticol, electronic, electric, and mechanical methods used for measuring and recording environmental variables. Introduction to telemetry and computer data processing.

EPR 516 ENVIRONMENTAL PLANNING (5) Ecological principles necessary to preserve a quality environment are presented by means of planning policies, processes and environmental indicators. Emphasis will be placed on the impact of growth on environmental quality.

EPR 582 ENVIRONMENTAL MODELING (5) Evaluation of regional resources. Environmental stresses and considerations in regional systems. System analysis in environmental management and its relation to decision-making. Modeling of ecological systems.

ENVIRONMENTAL TECHNOLOGY AND URBAN SYSTEMS

ETS 370 INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY SYSTEMS (5) This course is designed for non-majors as an integrated approach to the role of technological man in the biosphere. Emphasis is placed on methods for the environment quality improvement of land, air, water, transportation, and planning systems.

ETS 481 RECENT CONCEPTS IN ENVIRONMENTAL TECHNOLOGY SYSTEMS (5) An in-depth analysis of a specific current topic or problem relating to environmental technology or urban systems.

ETS 490 SEMINAR (2) The course consists of oral presentations made by students, guests and faculty members on current topics and research activities in environmental technology and urban systems. Prerequisite: Senior standing.

ETS 495 INDEPENDENT STUDY (1-5) Individual research studies available to academically qualified students. Consent of instructor required.

ETS 497 SPECIAL TOPICS (1-5) Specific aspects of environmental technology or urban systems not available through formal course study. Open to academically qualified students. Consent of instructor required.

ETS 595 INDEPENDENT STUDY (1-5) Individual research studies available to academically qualified students of graduate status.

ETS 597 SPECIAL TOPICS (1-5) Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified graduates only.

TRANSPORTATION SYSTEMS

TRT 300 INTRODUCTION TO TRANSPORTATION SYSTEMS (5) Rale of transportation in urban and regional development; elements of the transportation system; historical development of the U.S. transportation system; characteristics and design considerations of various modes.

TRT 402 TRAFFIC ENGINEERING TECHNOLOGY (5) Fundamentals of traffic; characteristics of the roadway, the vehicle and the human elements in the traffic stream; traffic studies; capacity analysis; parking studies; accident analysis.

TRT 412 TRAFFIC CONTROL DEVICES (5) Traffic signs and markings; introduction to the new international signs; traffic signalization; design and location of signals; maintenance of signals; traffic laws and regulations.

TRT 420 TRANSPORTATION PLANNING (5) Principles of transportation planning; arigin-destination studies; methodalogy used in generating transportation plans; techniques far predicting and evaluating the consequences of various alternatives; transportation planning for the Dade County region.

TRT 500 ADVANCED TRANSPORTATION SYSTEMS (5) Examination of innovative transportation systems technology; technical feasibility; system attributes; energy requirements; marketability of proposed systems; probable effect on modal choice behavior; evaluation of possible applications to the Greater Miami area.

TRT 504 TRANSPORTATION MODELING (5) Analytical evaluation of trip generation; gravity models and other distribution techniques, assignment and modal split; mathematical modeling of each of the above phases; shortest path algorithm; critical review of existing models.

TRT 512 URBAN MASS TRANSIT PLANNING (5) The mass transportation problem; demand analysis and projection; marketing urban mass transit; existing urban mass transit systems in the U.S.; techniques for planning mass transit systems; governmental regulation and subsidies to the transportation sector.

URBAN PLANNING

UPT 316 URBAN PLANNING CONCEPTS (5) Planning fundamentals; objectives and scope of urban planning; theories of land use patterns; population studies; cohort survival technique; employment studies; economic studies; estimating demand for various land usage.

UPT 410 PLANNING IMPLEMENTATION (5) Planning and the public; governmental agencies and their role; preparing a zoning ardinance; land subdivision; urban renewal.

UPT 411/URB 411 URBAN LAND USE PLANNING (5) Elements of the general land use plan; location and space requirements; the use of models in planning; development of the land use plan; policy plan; implementation

UPT 418 ANALYSIS OF TECHNOLOGICAL SYSTEMS (5) Fundamental concepts of system analysis; types of systems; input-output relationship; positive and negative feedback control; generation af system alternatives; tradeoff and sensitivity analysis; elementary optimization techniques.

UPT 518 URBAN SYSTEM ANALYSIS (5) The urban area as a complex system; modeling the urban growth processes; statistical decision-making games; modeling and simulation; cost effectiveness; application of the theory; o systemwide view of the Miami area.

UPT 615/URB 615 URBAN AND REGIONAL ANALYSIS (5) Theories of urban and regional grawth; economics of locatian and agglameration; urban and regional social accounting; economic base analysis, input-output models, gravity models, linear programming. Urban structure and performance.

AQUATIC RESOURCES AND WATER QUALITY TECHNOLOGY

WQT 320 APPLIED HYDRAULICS (5) A course to provide background in basic hydraulic technology. The fundamental theorems are studied first then applied to the collection and distribution of water and to the collection and treatment of wastewaters.

WQT 330 WATER RESOURCES (5) Study of the hydralogic cycle; graund and surface water accurrence and quality. Sanitary pratection of groundwater supplies. Stream sanitation: sources of pallution and self-purification of palluted waters. Water quality management. Multi-purpose uses of water and water reuse. Determination of papulation, municipal, industrial, and agricultural water requirements.

WQT 332 WATER SUPPLY TECHNOLOGY (5) Rural and urbon water supplies and distribution systems. Regional planning and development. Water treatment pracesses and disinfection. Laboratory experience with bacterialagical, physical, and chemical parameters in water treatment.

WQT 365 POTAMOLOGY (5) Environmental assessment of latic ar running water ecosystems with particular emphasis on the technological reclamation of these systems. The Miami River and the canals of Dade County will serve as the laboratories for this course.

WQT 366 LIMNOLOGY Environmental assessment of lentic or standing water ecosystems with particular emphasis on the technological reclamation of these systems, Prerequisite: WQT 365.

WQT 367 AQUATIC RESTORATION (5) Inclusive analysis of a specific aquatic environment with the specific abjective of demonstrating technological means to control eutraphication and to rejuvenate the ecosystem. Prerequisites: WQT 365 and WQT 366.

WQT 368 MARINE TECHNOLOGY (5) Fundamental cancepts of the bialogical, chemical, and physical dynamics of acean systems.

WQT 420 FLUIDS TRANSPORT (5) An advanced course on hydraulics emphasizing the transport of fluids, gas dynamics, fluid machinery, energy transfer devices, rheology and principles of fluidics.

WQT 450 WASTEWATER PROCESSES I (5) Theory of and laboratory practice in the biological processes used in wastewater treatment. Design, operation, and control of unit operations and pracesses. Standard tests for the examination of wastewater.

WQT 451 WASTEWATER PROCESSES II (5) A continuation of 450, Wastewater Processes I. Theory and labaratary practice of the physico-chemical pracesses in wastewater treatment including caagulation, flacculation, sedimentation, flatation, and disinfection. Advanced treatment methods. Standard tests for the examination of wastewater. Prerequisites: WQT 450.

WQT 452 WASTEWATER TREATMENT TECHNOLOGY (5) Analysis and design of conventional and advanced treatment plants for domestic, municipal and industrial wastewaters. Jaint industrial-municipal collection of wastewaters and sewerage service charges. The regional approach to wastewater treatment.

WQT 468 MARINE PRODUCTS (5) A survey of the cammercial items which may be harvested from the Ocean.

WQT 590 INDUSTRIAL WASTEWATER TREATMENT (5) Characteristics and composition of industrial wastewaters. Sampling techniques and analysis. Treatment methods and disposal. Water conservation and reuse. Product recovery. Joint industrial-municipal collection and treatment of wastewaters. Sewerage service charges. Case studies.

CLOTHING AND TEXTILE

CLT 335 BASIC CLOTHING CONSTRUCTION (5) Basic caurse developing skills in machine usage and construction techniques including their application in construction of apparel for personal use.

CLT 336 BASIC PATTERN ALTERATION (3) Basic pattern alteration stresses importance of pattern selection for individual figure types and pattern alteration for special fitting problems. Students will construct a basic dress, make sample pattern alterations for special fitting problems, and alter a ready-made garment. Prerequisite: CLT 335 or equivalent.

CLT 337 BASIC TEXTILES (3) Overview of the physical and chemical properties of textiles and their campanents as they relate to care, performance and cansumer satisfaction.

CLT 435 ADVANCED CLOTHING CONSTRUCTION (5) Additional experience stressing judgement in selecting patterns and fabrics, pattern alteration, and application of principles and techniques of clothing construction. Prerequisite: CLT 335 ar equivalent.

CLT 436 FASHION AND CULTURE (3) Study of historical, socioeconomic and ethnic influences of fashion design. Includes analysis of current fashion influences.

CLT 437 FASHION PRODUCTION AND DISTRIBUTION (3) Study of apparel industries with supervised abservation of various aspects of production and distribution.

CLT 438 TAILORING (5) Application of custam tailoring techniques through the construction of a suit or coat with emphasis an fabric selection and pattern alteration. Prerequisite: CLT 435 or equivalent.

CLT 440 FASHION MERCHANDISING FIELD EXPERIENCE (5-10) Supervised "an-the-job" training and periadic seminars. Cansent of faculty instructor required.

CLT 444 CREATIVE TEXTILES (5) Laboratory portion of Basic Textiles where students will explare techniques for designing and constructing textile fabrics. Experiences will include macrame, batik, tie-dying, weaving, knitting and crocheting. Caurse is designed for Hame Economics and Art Education majors.

CLT 495 INDEPENDENT STUDY (1-5) Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

CLT 497 SPECIAL TOPICS (1-5) For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and division director is required.

CLT 534 PATTERN ALTERATION AND DESIGN (5) Principles of pattern alteration and fitting will be explored through the construction of a basic dress or sloper. Samples of various pattern design techniques will be constructed. Students will design and construct at least one garment. Prerequisites: CLT 336 or CLT 435 or equivalent.

CLT 535 NEW TRENDS IN CLOTHING CONSTRUCTION (3) A study of the latest techniques for sewing today's fabrics including some factory methods. Prerequisite: CLT 435 or equivalent.

CLT 536 TODAY'S TEXTILES (3) A study of today's textiles fabrics, and the chemical and physical properties peculior to all fibers.

CLT 537 TEXTILES AND CLOTHING SEMINAR (1-5) By permission of instructor only.

CLT 538 TAILORING MENSWEAR (5) Application of tailoring techniques commercially used in the production of menswear through the construction of a knit jacket and trousers. Prerequisite: CLT 435 or equivalent.

ELECTRONICS ENGINEERING TECHNOLOGY

EET 300 SURVEY OF ELECTRONICS (Lecture 4 credits, Lab 1 credit) The basic principles of AC and DC circuits, solid state devices, and fundamental electronic circuits. This course is intended for students outside of the Electronic Engineering Technology major with no prior knowledge of electronics.

EET 310 INTRODUCTION TO CIRCUIT ANALYSIS (5) Introduction to AC and DC circuit analysis. Use of complex algebra and phasors. Loop and node analysis. Resonance circuits. Introduction to three phase circuits. Transient analysis of first and second order circuits using calculus. Prerequisite: MAS 302 and Physics with electricity or equivalent.

EET 312 INTRODUCTION TO ELECTRONICS (5) Introduction to electronic circuit elements and analysis using calculus. Diode and transistor principles and circuits. Survey of pulse and digital circuits and various semi-conductor devices. Prerequisite: EET 310 or equivalent Corequisite: EET 313

EET 313 ELECTRICAL AND ELECTRONIC LABORATORY (2) 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: EET 312.

EET 314 ELECTRICAL SYSTEMS IN CONSTRUCTION (5) A survey of electrical and lighting requirements for residential and commercial buildings. Emphasis on estimating circuits, power requirements, layout constraints, etc.

EET 316 ADVANCED CIRCUIT ANALYSIS (5) The objective of this course is to present an advanced circuit analysis for a modern engineering technology program. Study of phasors loop and node analysis, network theorems, transients, linear models, and an introduction to the Laplace transform. Prerequisite: EET 310 or equivalent Corequisite: MAS 302 and EET 312.

EET 318 ELECTRIC MOTOR CONTROLS (5) Study of control of speed, acceleration, stopping, plugging, reversing, and cycling of AC and DC motors in industrial applications. (includes lab) Prerequisite: EET 316.

EET 320 PROCESS CONTROL TECHNOLOGY (5) A concise and modern treatment of the fundamentals of process control technology. Introduction to root-locus, Bode diagrams, and stability concepts. Applications to industrial operations as controlling pressure, temperature, humidity, etc.

EET 328 SOLID STATE DEVICES (Lecture 4 credits, Lab 1 credit) Study of virtually all modern semiconductor devices with applications. MOSFET, photodetectors, thyristors, unijunction transistors, special diodes, etc. Prerequisite: EET 300 or equivalent

EET 329 PULSE AND DIGITAL CIRCUITS (Lecture 4 credits, Lab 1 credit) An introduction to non-linear circuits including logic gates, multivibrators, waveshaping, trigger circuits, sweep generators, clipper and clamper circuits, etc. Prerequisite: EET 312 or equivalent

EET 340 MODERN COMMUNICATION TECHNOLOGY (5) Definitions, basic concepts and application of analog and digital modulation techniques. Modulators for generating various signals and demodulators for information recovery are studied. Quantization. Decoding. Effect of noise in communication systems. Prerequisite: EET 316 or equivalent

EET 342 TRANSMISSION SYSTEM FOR COMMUNICATION (Lecture 3 credits, Lab 2 credits) Terminology, definitions and methods by which transmission objectives for message channels are established. Noise and its measurement. Crosstalk. Anolog and digital transmission lines. Wideband data transmission. Prerequisite: EET 340.

EET 415 ELECTRICAL POWER SYSTEMS (5) Components of power systems including control of power and frequency, load flows, foult analysis, protection, etc. Prerequisite: EET 316

EET 416 ADVANCED CIRCUIT ANALYSIS II (5) Continuation of Laplace transform techniques, complex frequency and transformed circuits. Time and frequency response analysis. Applications to electrical and electronic circuits. Prerequisite: EET 316

EET 420 PROCESS CONTROL INSTRUMENTATION (Lecture 2 credits, Lab 3 credits) Study of electronic instruments and measurement systems and their relation to process control. Sensors. Recording devices, transmissian channels, and noise affecting the data collection system are studied. Basic theory and operation of process control components, such as tachometers, synchros, error detectors, servomotors, etc. Prerequisite: EET 320

EET 422 ADVANCED CONTROL SYSTEMS (5) Applications of root-lacus techniques and Bode diagrams to the analysis and design of practical industrial process cantrol systems. Use af analog and digital computers in process control. AC and hybrid systems. Prerequisite: EET 320 and 416

EET 428 ELECTRONIC CIRCUIT ANALYSIS (5) Analysis and design of electronic circuits using bipolar transistors, FET's and MOSFET's. Application of frequency response techniques to the analysis and design of feedback amplifiers, tuned amplifiers, oscillators, modulators and demodulators, power amplifiers etc. Introduction to integrated circuits. Prerequisite: EET 316 and EET 328 or equivalent

EET 430 INTEGRATED CIRCUITS ANALYSIS AND APPLICATION (Lecture 4 credits, Lab 1 credit) Application of state-of-the-art integrated circuits. Comparison of different IC's from the SSI, MSI, and LSI areas. Design and characteristics of linear and digital integrated circuits. Prerequisite: EET 428

EET 440 DATA COMMUNICATION TECHNOLOGY (Lecture 4 credits, Lab 1 credit) Study of recently discovered, economically attractive data communications techniques. Analysis and design of systems transmitting efficient digital information. Applications such as computer communication and business machines to computer communications are stressed. Introduction to error control and error correcting codes. Prerequisite: EET 340

EET 466 PASSIVE AND ACTIVE FILTERS (5) Practical application of passive and active filters to communication and process cantral systems. Laboratary applications. Prerequisite: EET 416

EET 468 DIGITAL PROCESS CONTROL SYSTEMS (Lecture 4 credits, Lab 1 credit) Study of digital process cantral systems. Time frequency response to discrete systems. Digital controllers. Application to industrial processes. Laboratory work with digital camponents and systems. Prerequisite: EET 320 or equivalent

EET 498 GROUP PROJECTS (5) A group of students working under the direction of an instructor or team of instructors will design, fabricate and assemble a technical system.

MECHANICAL ENGINEERING TECHNOLOGY

MET 300 MANUFACTURING PROCESSES I (5) An introduction into the processes used to convert row materials into finished products. Includes information on casting, forging, machining, and forming.

MET 310 FLUID POWER (5) A study of the development, transmission and utilization of power through fluid power circuits and controls. (Includes Lab) Prerequisite: WQT 320 or equivalent.

MET 351 DYNAMICS (5) Study of the mation of particles and members applied to technical problems. Impact mamentum and mechanical energy. Prerequisite: MAS 302, and CSN 351 or equivalent.

MET 353 BASIC MATERIALS (5) A study of ferrous and nonferrous metals and alloys. Includes atomic structure, bonding, and arrangements of atoms; phase diagrams; reactions within solid materials, and the interrelation of these to show how structure determines the properties of a material.

MET 360 MECHANICAL SYSTEMS IN CONSTRUCTION (5) A survey of plumbing, heating, airconditioning and ventilation systems for buildings.

MET 362 MECHANICAL DESIGN I (5) Design analysis of elementary machine members including shafting, springs, screws, belts, clutches, brakes, chains, welds, and rivets. Prerequisite: MET 351, CSN 352 or equivalent.

MET 459 APPLIED THERMODYNAMICS (5) Fundamental concepts of basic thermodynamics, including thermodynamic properties and processes, first and second laws af thermodynamics and application of the principles to energy conversion systems. Prerequisite: MAS 302.

MET 460 ENERGY SYSTEMS (5) Review of theory and engineering aspects of conventional energy conversions systems, fuels and combustion, fossil fuels, and nuclear power plants, Mechanical Engineering aspects of direct energy conversion. Prerequisite: MET 459 or equivalent.

MET 461 HEAT TRANSFER (5) Fundamental concepts of canduction convection and radiation heat transfer, including practical numerical analysis, in addition to conventional analytical and empirical methods. Prerequisite: MAS 302, MAS 311 and MET 459 or equivalent.

MET 462 MECHANICAL DESIGN II (5) Continuation of the design analysis of elementary machine members including lubrication, bearings, and gearing. Introduction to advanced analysis techniques. Prerequisite: MET 362.

MET 463 AIR CONDITIONING REFRIGERATION PRINCIPLES (5) The theory, aperation and control of heat pump cooling and heating, chemical absorption cooling and steam jet refrigeration systems. Includes laboratory. Prerequisite: MET 459.

INDUSTRIAL OPERATIONS

ITE 300 INDUSTRIAL FINANCIAL DECISIONS (5) The accounting process and use of financial techniques and data in planning, controlling, and coordinating industrial activities. This course is intended to familiarize the student with the accounting concepts, analytical methods, and use of accounting information for purposes of operation and control.

ITE 312 AUTOMATION (5) A study of the technology of automation including the economics of management policies for the major industrial changes influencing automation planning.

ITE 323 METHOD IMPROVEMENT (5) Methods engineering and measurement of human work systems. Techniques for operation analysis, work measurement and work sampling. Predetermined motion-time systems and standard data development are explored. Prerequisite ITE 371 or equivalent.

ITE 324 QUALITY CONTROL (5) The economic and physical factors involved in quality control planning from the product design stage to the ultimate utilization by the user.

ITE 330 PRODUCTION PLANNING AND CONTROL I (5) Introduction to production planning and control concepts including their function within total planning, forecasting, estimating, processing instructions, and manpower allocations. Prerequisite: ITE 371 or equivalent.

ITE 331 PRODUCTION PLANNING AND CONTROL II (5) The functions of a production planning and control organization at work. Topics in the area of inventory control, scheduling, dispatching and flow control. Prerequisite: ITE 330 or equivalent.

ITE 350 SAFETY IN INDUSTRY (3) Introduces occupational safety and health hazards associated with mechanical systems, materials handling, electrical systems, and chemical processes. Illustrated controls through engineering revision, safeguarding and personal protective equipment. Emphasis placed on recognition, evaluation and control of occupational safety and health hazards. Written reports required.

ITE 351 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.

ITE 371 INDUSTRIAL OPERATIONS (5) The industrial structure is studied to see how the various areas and functions are related to each other. The material covered should give the student an overview of the operations of the organization and an understanding of the fundamental principles of management which lead toward effective coordination and control.

ITE 374 INDUSTRIAL INFORMATION SYSTEMS (5) Introduction to information systems used in industry. Includes coding, input and retrieval of information.

ITE 400 MATERIALS HANDLING (5) 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 divisions in the industrial organization.

ITE 401 PLANT LAYOUT (5) To effect the coordination of the physical plant facilities to combine the men, materials and machines necessary for operation in the most economical arrangement. Prerequisite: ITE 400 or equivalent.

ITE 410 INDUSTRIAL SALES (5) Fundamentals of technical sales. Analysis of buyer's needs. Experiments, trial runs and demonstrations. The sale of machinery, raw materials and technical services. Credit and financing considerations. Measures of performance. Case studies.

ITE 420 INDUSTRIAL FOOD PROCESSING I (7) A lecture and laboratory course to cover the fundamentals of food preservation. Refrigeration and freezing studied with product, equipment and process control requirements. Experimental work in a lacal food plant with discussion and solution of current problems.

ITE 421 INDUSTRIAL FOOD PROCESSING II (7) A lecture and laboratory course, as a continuation of Food Processing I. Pasteurization, Heat Sterilization, Dehydration, Fermentation, Distillation and other food preservation methods. Product, equipment and pracess control requirements. Experimental work in a local food plant. Prerequisite: ITE 420 or equivalent.

ITE 422 HUMAN FACTORS ENGINEERING (5) Examination of the ways to fit jobs and objects better to the nature and capacity of the human being. Lectures will review man's performance capability, singly and in groups in interacting with his work environment. Stresses the practical application of human factors principles.

ITE 450 HEALTH HAZARDS IN INDUSTRY (3) A continuation of Safety in Industry. An introduction to OSHA regulations on health hazards. Instrumentation. Noise, radiation, and dust problems in industry. Special hazards with solvents, asbestos, lead, silica, and other chemicals. OSHA compliance pracedures. Prerequisite: ITE 350 or equivalent.

ITE 460 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. Prerequisite: ITE 351 and ITE 450 or equivalent.

ITE 471 PERSONNEL RELATIONS (5) A study of the functions of personnel relations. Topics covered include determining jab requirements, manpower requirements, selection, interviewing and counseling, tests, training, morale and mativation, job evaluation, wage classification, merit rating, and union-management relations.

ITE 474 INDUSTRIAL SUPERVISION (5) Overview of the supervisors functions, responsibilities, and over-oll role in management in industry.

ITE 476 MAINTENANCE PLANNING (5) A study of the maintenance function in the industrial setting including the planning and implementation of preventative maintenance techniques.

ITE 480 VALUE ANALYSIS (5) How to increase the value of products or services by holding quality while reducing costs, holding costs while increasing quality, or both with emphasis on material shortages. Specific steps of value analysis used to improve industrial problem solving.

ITE 485 ENGINEERING ECONOMY (5) The study of the economics of decision making in business and industry. Includes an analysis of the cancepts of break-even, least cost and the differences between alternatives when related to the time value of money. Budgeting, labor and the cost control, relative to the industrial engineering technologist, is also considered.

ITE 490 WOMEN IN INDUSTRY (5) Development of supervisory and technical skills for wamen in industrial aperations. Practice in planning, arganizing, decision making, and employee direction with particular emphasis on the waman as supervisor, manager or in the technical profession.

ITE 495 INDEPENDENT STUDY (1-5) Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

ITE 497 SPECIAL TOPICS (1-5) Specialized design program for a group of students who wish an intensive study of a topic not affered in the University. Consent of faculty instructor required.

COMPUTER ENGINEERING TECHNOLOGY

COT 300, LOGIC DESIGN (Lecture 4 credits, Lab 1 credit) Karnough maps and Quine McCluskey reduction techniques, study of analytical and empirical tools necessary to design with digital IC's; combinational logic, and sequential circuits are considered. Prerequisite: Boolean Algebra.

COT 302 COMPUTER HARDWARE FUNDAMENTALS (5) Analysis of computer elements and systems composed of flip-flaps registers, counters, adders, etc.; study of a basic orithmetic unit, care memory system, control unit, and arganization of these units into a system. (includes lab)

COT 304 ADVANCED COMPUTER SYSTEMS (Lecture 4 credits, Lab 1 credit) Study of hardware computer systems and components in a laboratory environment, arithmetic and memory system, complete minicomputer, digital communications system, digital modem input-output interface. Prerequisite: COT 300.

COT 404 ADVANCED LOGIC DESIGN (5) Analysis, design and optimization of combinational systems, and interative networks; study of digital systems such as multiplexers, D/A and A/D converters, digital multimeters, modems, arithmetic circuits, etc. Prerequisite: COT 300.

COT 406 COMPUTER PERIPHERALS AND INTERFACING (5) Introduction to digital I/O equipment to include disk and drum storage, reel and cassette magnetic tape units, AD and DA converters, paper tape devices, teletypewriters, card readers. (includes lab) Prerequisite: MAS 311 and COT 304 or equivalent.

COMMUNICATIONS MEDIA

COM 320 FEATURE WRITING (5) The fact stary: researched and written in depth. Planning, constructing, writing and marketing non-fiction articles for general and special interest magazines and newspaper feature pages. Includes the query letter; preparing photos and illustrations to accompany the article.

COM 321 INTERVIEWING TECHNIQUES (5) The interview as a source of information and as a story. Preparing and conducting interviews, including planning of questions, note-taking and transcription, writing and editing. The Symposium interview; the press conference; the personality sketch.

COM 350 EDITING AND MAKE-UP (5) Practical skills involved in putting out a newspaper; editing copy for clarity, facts and brevity; headline writing; page make-up; capy reading and praof reading marks. Attention will be given to editing for T.V. and radio news and features.

COM 380 NEWS REPORTING (5) To teach the skills necessary to recognize and produce a good news or features stary; experience with actual interviews, discussions with successful writers and journalists, and critique of student work. News judgement and identification of proper sources will be introduced.

COM 470 COMMUNICATIONS TECHNOLOGY (5) This course will provide study of modern communication equipment usage and impact, with special emphasis upon electronic and visual transmission, reception and projection capabilities and methods. Future development and instrumentation in technical communication systems will also be stressed.

COM 480 REPORTING OF PUBLIC AFFAIRS (5) To teach the student how to cover government activities for newspapers, television, and radio. Aspects of the budget office, county manager's office, and the commissioner's office, courts and planning and zoning will be outlined. Guest speakers from government offices will appear.

INDUSTRIAL ARTS TECHNOLOGY

IAT 305 CONSTRUCTION TECHNOLOGY (5) Laboratory experiences of basic production, management and personnel practices as they relate to construction systems and projects.

IAT 306 MANUFACTURING TECHNOLOGY (5) Laboratory experiences of basic manufacturing, management, personnel, and production practices as they relate to products and processes. Safety procedures.

IAT 307 REPROGRAPHICS (5) Laboratory experiences in the theory and practice of communicating through graphics; includes experiences in copywriting, editing, image generation, image assembly, photo conversion, image carrier preparation, transfer, and finishing.

IAT 405 CONSTRUCTION PROCESSES (5) Laboratory experiences in the principles and practices of the construction trades, includes concrete and plaster trades, electrical, plumbing, carpentry, iron work, sheetmetal, roof and finishing trades in setting foundations, erecting structures, installing mechanical and electrical systems, applying surface material and finishing.

IAT 406 INDUSTRIAL RESEARCH AND DEVELOPMENT (5) Laboratory experiences in formulating, researching, designing, and developing prototypes of constructed and manufactured products and processes. Prerequisite: IAT 305 or IAT 306

IAT 407 PLANOGRAPHIC PROCESSES (5) Laboratory experiences in the theory and practice of offset lithography. Emphasis will be directed toward skill development in design and copy preparation, process photography, stripping, platemaking, and duplicator operation.

IAT 408 PHOTOGRAPHICS (5) Laboratory experiences in the theory and practice of photography as used in visual communications. Develops proficiencies in camera work, developing, and printing.

IAT 409 MATERIALS OF INDUSTRY (5) Laboratory experiences in the theory and practice of characteristics of materials of industry. Includes test and measurement of stress, strain, torsion, tensile strength, fatigue, and hardness of metals, wood, fabrics, ceramics and synthetics.

IAT 415 DRAFTING I (5) Laboratory experiences in the principles and practices of idea development and expression through free hand sketching and conventional instrument drafting. A beginning course for students with no prior drafting experience.

IAT 416 DRAFTING II (5) Laboratory experiences in the principles and practices of product design and communication. Includes conventions, projections, and dimensions and problems of making drawings for product production. Prerequisite: IAT 415 or equivalent

IAT 417 MECHANICAL POWER SYSTEMS I (5) Laboratory experiences in the theory of aperation and related maintenance of single and multiple cylinder reciprocating engines. Includes introductory experience with mechanical, fluid, and pneumatic power systems.

IAT 418 ELECTRICAL/ELECTRONIC POWER SYSTEMS (5) Introductory course designed primarily for the novice in electricity/electronics. Laboratory experience consists of planned activities centered about electrical/electronic instrumentation and power systems.

IAT 419 MATERIALS PROCESSING (5) 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.

IAT 420 ARCHITECTURAL DRAFTING (5) Laboratory experiences in designing structures, developing working drawings and specifications for constructed projects. Includes development of site, foundation, floor, elevations, plumbing plans, and specifications.

IAT 422 MECHANICAL POWER SYSTEMS II (5) Advanced laboratory experiences with reciprocating engines. Introductory study of turbine, diesel, and rotary engines. Introductory study of aircraft structures and basic aero dynamics. Prerequisite: IAT 417 or equivalent

IAT 495 INDEPENDENT STUDY (1-5) Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

IAT 497 SPECIAL TOPICS (1-5) For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and Division Director required.

ENGINEERING TECHNOLOGY

ENT 495 INDEPENDENT STUDY (1-5) Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

ENT 497 SPECIAL TOPICS (1-5) For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and division director is required.

AIR FORCE ROTC

Florida International University, in cooperation with the University of Miami, offers Air Force ROTC to full-time students through an enrollment agreement between the two institutions. All

classes and leadership labs are tought on the University of Miami campus. Questions regarding the Air Force ROTC program should be directed to the Department of Aerospace Studies at the University of Miami.

LOWER DIVISION PREPARATION:

Required Courses: Aerospace Studies 100 and 200 (see remarks) (4 semesters credit)

Remarks: Lower division requirements may be waived if the student (1) is a veteran, or (2) is selected for a two-year (upper division only) program and attends a six-week preparatory camp before enrolling in AIS 301.

UPPER DIVISION PROGRAM:

Required Courses:

AIS 301, 302

AIS 401, 402

Remarks: Upper Division Program is designed to prepare interested and qualified students for commissioning as officers in the U.S. Air Force upon graduation. Students are furnished uniforms and textbooks and receive \$100.00 per month during the academic year.

COURSE OFFERINGS

AIS 301 FIRST YEAR ADVANCED (3) (F) Principal requisites for maintaining adequate national security forces. Functional processes and institutional structure involved in the formulation and implementation of U.S. defense policy.

AIS 302 FIRST YEAR ADVANCED (3) (W) Political, economic and social constraints affecting the formulation of U.S. defense policy. The impact of both technological and international developments upon strategic preparedness and the overall defense policy-making process.

AIS 401 SECOND YEAR ADVANCED (3) (F) Professionalism, responsibilities, the Military Justice System; leadership theory and practices; management tools, principles, practice; problem solving.

AIS 402 SECOND YEAR ADVANCED (3) (W) Continuation of AIS 401.

ARMY ROTC PROGRAM

Florida International's ROTC Program is offered under a cross-enrollment agreement with the University of Miami. The classroom portion of the courses is taught at Florida International while the weekly drills are held at the University of Miami. Any questions should be referred to the Military Science Department at the University of Miami.

LOWER DIVISION PREPARATION:

Required Courses: Military Science I and II (See remarks)

Remarks: The lower division preparation may be waived if the student (1) is a veteran or (2) attends a basic camp priar to entering MIL 301.

UPPER DIVISION PROGRAM:

Required Courses:

MIL 301, 302

MIL 401, 402

Remarks: The program is designed to select interested and qualified individuals for entry into the U.S. Army at a management level. During the program, students will receive \$100/month (for 10 months/year) and will attend a summer camp prior to commissioning as a second lieutenant.

COURSE OFFERINGS

MIL 301 MILITARY LEADERSHIP AND MOTIVATION (3) (ADVANCED MS III) A behavioral science approach to military leadership and motivation with emphasis on crisis-oriented arganizations.

MIL 302 ADVANCED MILITARY III (3) Applied tactics; principles and fundamentals of tactical operations. Advanced leadership.

MIL 401 ADVANCED MILITARY SCIENCE IV (3) World power relationships: world change and military implications. Applied leadership. Military administration and justice.

MIL 402 ADVANCED MILITARY SCIENCE IV (3) Theory and dynamics of the military team. Applied leadership.

RELATED SERVICES

Academic Affairs

Florida International University provides many supportive services to assist the entire University community — students and staff — meet ongoing academic and business needs.

INTERNATIONAL AFFAIRS CENTER

The prime function of the International Affairs Center of Florida International is to assist all elements of the University in acquiring an international dimension, whether it be in Florida or abroad, curricular or extra-curricular.

It has become traditional for like centers in other universities to create separate staffs and projects which remain on the periphery of student and faculty concerns. Florida International's nantraditional approach seeks total immersion of the University in international affairs. The goal is to make the University an international center. To achieve this, the staff of the Center serves alternately as advocate, lobbyist, convener, planner, broker and fund raiser.

A principal premise upon which the Center operates is that the most valid international activities are those which are multi-disciplinary. For the Center's purposes, multi-disciplinary means that not only are both faculty and students to be brought in, but community groups and resources as well. Priority emphasis is given to those activities where two or more schools or departments of the University can be involved.

If there is one broad discipline around which the University's internationalism clusters it is the institution's relationship with international students. The Center assists all elements of the University in seeing that the international student feels welcome at Florida International.

The Center aids all parts of the University in the research of the practical problems which face the international community.

The promotion of faculty and student travel and study abroads is also a function of the Center. In this regard, the Center acts as a clearing house for programs sponsored by the University as well as for those sponsored by such organizations as the State University System, American Association of State Colleges and Universities, and the International Institute of Education.

LIBRARY

The permanent University Library facility, housed in Atheneum, is scheduled to open in the Fall of 1976. Until then, the temporary Library occupies the entire first floor and a portion of the second floor of Primera Casa.

Some 200,000 volumes comprise the Library collection, in addition to substantial holdings in federal, state, local, and international documents; maps; microforms; music scores; newspapers; institutional archives; and curriculum materials. The Library subscribes to approximately 4,200 scholarly journals and other serials.

The public card catalog, located in the Reference Department, is 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 catalog. The bulk of the collection is housed in open stacks.

Classification of Library resources is according to the Library of Congress system except for the depository collection of U.S. government publications, which is arranged by the Superintendent of Documents classification. A separate public catalog is maintained as the key to Library holdings of government documents.

In keeping with the University's commitment to day-night operations, the Library is open when the University is in session and during vacation periods. For exact Library hours, please consult the posted schedules. The Library's facilities are available to residents of the area as well as to all members of the University community.

MEDIA CENTER

The Media Center, a service facility to faculty, staff and students, is located in Viertes Haus and Primera Casa 419. In the Fall of 1975, the Film Library will be located in the new Library building. The services offered by the Media Center are provided by the following departments: Film Library, Equipment Distribution, Graphics and Photography, Learning Resources Specialist and a Faculty-Student Production Center.

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

SOUTHEAST REGIONAL DATA CENTER

To provide the most readily accessible computer support, resources from Florida International University and Florida Atlantic University have been pooled into a single Data Center for computer services. The Center, which is the first of its kind in Florida, has been charged with extending instructional, research, and administrative computing support to both universities. The pooling of resources has enabled the Data Center to provide for more computing pawer to both universities than either university could have supported individually.

An extensive library of programs is available to all Data Center users. This library includes programs for simulation, linear programming, statistical analysis and decision-making games, and is accessible from either mode of operation.

A staff of support personnel is available to assist students and faculty in the use of interactive (demand) terminals, batch facilities and the software library, and for general problem solving associated with their use. The same personnel also conduct short courses on the use of the programs in the software library.

OFFICE OF MINORITY AFFAIRS AND WOMEN'S CONCERNS

The Office provides leadership and direction in the administration of the University as equalization programs for women and minorities in several ways. It assists University units in implementing and monitoring affirmative action-procedures, provides a channel for employee and student grievances regarding discrimination or issues that indicate the need for additional affirmative action, and promotes effective relationships between the University and community organizations.

OFFICE OF INSTITUTIONAL RESEARCH

The Office conducts the research and evaluation related to the internal operations of the University, and analyzes and reports University statistics to federal and state agencies and other relevant groups.

STUDENT SERVICES

The Division of Student Services exists to facilitate your receiving services needed to successfully complete your education, to advise you (and possibly advocate for you) should you experience ony difficulties while you attend Florida International University, and to grow in its responsiveness as a result of the interaction with you. The Student Services Office is located in University House 340. The following paragraphs list some of the services available to you through this Division. If one of your needs is not covered below, please come to the Division Office for personalized assistance, or call 552-2421.

STUDENT ACTIVITIES AND ORGANIZATIONS

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

Organizations are continually being formed. Students have the opportunity to develop groups that further social and service programs, promote and supervise student welfare, and coordinate and implement community/student cooperation. The Student Activities Office in the Division of Student Services, University House 211, will provide further information if students are interested in organizing a group or joining one that exists.

There are currently over 60 registered student organizations on campus, ranging from the Professional Commerce Association, the Council for Exceptional Children and the Student Art Association, through the Student Social Workers Association, the International Student Club and the Sailing Club. Meetings for all student groups are posted on glass directory boards throughout the University and listed on the weekly University Calendar posted on all tackboards.

STUDENT PUBLICATIONS

The Student Publications/Communications Workroom, University Hause 212A, provides the base of operations for all present student publications as well as 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 and several registered magazines do exist on campus. Student publications welcome contributions from any segment of the University community and seek staff members as well.

STUDENT GOVERNMENT

The Student Government Association (SGA), with offices in University House 310 and 311, 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 Cultural and Social Committee, which is in charge of coordinating all concerts, lectures, film series and cultural and social activities involving students; the Budget Committee, which quarterly reviews and funds budget requests from registered student organizations and university departments; and the Committee on Committees, which reviews and screens student opplicants for university-wide committees.

GOVERNANCE

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

The governance of Florido International is intended to reflect common goals, and to bring honest differences of opinion out into the open when such exist. Through coordinated action and cooperation, the ingenuity of students can be an effective force in serving the total University community. The student's concerns will be considered within the framework of the total governance of the University because students have the right to be represented on all major University governing councils and committees.

Faculty and staff of Florida International actively seek to learn students' desires and needs, which receive major consideration in the decision-making process at the University. At the same time, to enhance "two-way" communication, it is important that students also give consideration to the views of faculty and staff as the "University family" works together to meet the basic goals of the institution.

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

UNIVERSITY HOUSE

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, the facility houses the bookstore, cafeteria, Rothskeller, Cinemo Center, International Conference Theater, Publications/Communications Workroom, recreation rooms, TV Lounges, Student Government Association offices, student organization offices, and meeting rooms. The Student Activities Office is located on the second floor and the Division of Student Services, which includes Career Planning and Placement, Cooperative Education, Foreign Student Services, Financial Aid, Veterans Affairs, Academic Advising, and the office of the Dean is on the third floor.

STUDENT HEALTH CARE

The health services at Florida International are designed to supplement the normal health care of our totally non-resident population and are adequately prepared to provide emergency health care for anyone becoming injured or ill while on campus.

Our emergency health clinic on campus is staffed by a registered nurse from 8:00 a.m. to 11:00 p.m., Monday through Thursday, 8:00 a.m. to 9:00 p.m. on Friday, and 24-hour emergency medical services are available through a medical clinic near the campus. The clinic is located in Room 304 in Primera Casa.

All students paying for nine or more CREDIT hours per quarter are automatically covered with a \$1,000 blanket accident insurance policy upon payment of their fees. Other students may purchase this coverage at a nominal fee. A student can elect additional personal insurance coverage at low group rates through our Student Health Insurance Program. Options include \$2,500 major medical accident and illness coverage, and o maternity benefit clause. Information regarding this coverage will be mailed to the student after he or she enrolls in the University, or the student may contact the Health Clinic on campus.

HANDICAPPED STUDENTS

Special arrangements have been made at Florida International to serve the needs of those who have physical handicaps. Buildings include elevator and ramp facilities as stipulated by federal regulations for the handicapped, as well as special restrooms, lowered drinking fountains and telephones, and a special parking area. The Division of Student Services (UH 340) is the focal point for the expression of concerns regarding campus matters for all handicapped students.

FOOD SERVICE

Food and beverage service is available on the first floor of University House. Snacks and complete meals are served cafeteria style. The cafeteria includes tables in the main area, surrounded by small dining rooms and patio dining areas. Food Service offers complete catering service.

COOPERATIVE EDUCATION

Cooperative Education is an educational arrangement which is intended to augment a student's education by adding the dimension of alternating quarters of classroom study with quarters of full-time employment in a position directly related to the student's major field of study. Interested students may obtain detailed information about Cooperative Education from their academic advisor or the Department of Cooperative Education.

CAREER PLANNING AND PLACEMENT

The Career Planning and Placement Department is the focal point of career planning and related programs for students and alumni. These programs are intended to help a student develop his or her career objectives, to assist individuals in locating the most advanced positions for which they are qualified and to provide alumni with the opportunity to audit their career effectiveness and make critical career decisions. Career Planning and Placement services include one-to-one counseling, group guidance in the form of workshops, on-campus recruiting of students by employers, a career information library, and assistance to students in developing personal and professional data to be presented to employers.

FINANCIAL AID

Florida International University subscribes to the philosophy that a student is entitled to a college education regardless of his or her financial condition. The Office of Financial Aid has an extensive program of student financial aid which includes scholarships, grants, loans and employment. Awards are based on need. Each application is given individual attention.

Assistance may be in the form of a scholarship, loan, part-time employment or a combination of all three in a "package". Florida International participates in the National Direct Student Loan Program, the Florida Student Loan Program, the Federal Nursing Student Loan and Scholarship Program, the Law Enforcement Education Program, the College Work-Study Program, the Florida Student Assistance Grant Program, the Supplemental Education Opportunity Grant Program and the Basic Educational Opportunity Grant Program. Forms for the Federally Insured Loan, a type of transaction between local lenders and the student, are also processed through the Office of Financial Aid. Interest rates vary, and most loans are repayable starting six months to a year after graduation or withdrawal from an institution of higher education.

In order to qualify for aid, a student must be degree seeking. A new application for aid must be submitted each year. Forms are available in February for the following Summer Quarter and academic year. A student enrolling in the Summer and Fall is strongly encouraged to apply between February 1 and May 1 in order to receive priority consideration. Apply as soon as possible. DO NOT wait until you have been accepted by the Admissions Office. A student starting at Florida International University in the Winter Quarter should apply during the previous October. Before a financial aid application can be evaluated, students are expected to do the following:

- 1. Complete a Parents Confidential Statement (PCS) or a Student Financial Statement (SFS) which is mailed directly to the College Scholarship Service. The Student must complete a PCS if during the preceding 12 months he or she resided with, was claimed as a dependent for federal income tax purpases, or received \$600.00 or more from one or both parents or legal guardian. The College Scholarship Service will send Florida International University a computerized version of the student's application which is evaluated to determine his or her need.
- 2. Complete an office opplication and mail it to the Financial Aid Office.

 Every transfer student must complete the financial aid transcript form (Section A-C) available at Florida International University's Financial Aid Office, and have their Financial Aid Office complete Section D and mail it to Florida International University.

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

- Apply for the Florida Student Assistance Grant Program. The student must be a United States citizen
 and a Florida resident for at least 24 months immediately preceding the beginning of the accodemic
 year for which he or she is applying. The student must be enrolled for at least 12 hours per quarter.
- Apply for the Bosic Ecanomic Opportunity Grant (BEOG) Program and submit the Student Eligibility Report to Florida International University. In order to be eligible the student must have storted his or her post high school education after April 1, 1973. The student must be enrolled for at least 12 hours per quarter.

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

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

VETERANS PROGRAMS AND SERVICES

A Director of Veterans Programs and Services in the Division of Student Services is available to assist veterans with their problems and to coordinate Veterans Services. A veteran entering the University should contact the Office of Registration and Records concerning his or her certification and eligibility of veterans benefits. A veteran who desires tutoring or advice should contact the Director of Veterans Programs and Services. The eligibility for veterans benefits is in occordance with the following schedule:

	UNDERGRADUATE	GRADUATE
Veterans Benefits (full allowance)	12 quarter hours	9 quarter hours
Veterans Benefits (3/4 allowance)	9 quarter hours	7 quarter hours
Veterans Benefits (1/2 allowance)	6 quarter hours	5 quarter hours

FOREIGN STUDENT SERVICES

The Department of Foreign Student Services is organized to meet the special needs of foreign students and to help each student achieve his or her educational goals. The Department is a source of information and liaison for immigration responsibilities, financial aid, and other questions concerning the general welfare of foreign students. The counselors serve as odvisors, friends, and advocates for foreign students, helping students understand the law and receive fair treatment. An orientation program is planned at the beginning of every quarter to acquaint the new foreign student with the University, Immigration Regulations and the community.

COUNSELING SERVICES

A variety of special advising and counseling is provided by a range of qualified professional staff to aid any student experiencing difficulty with career choice and/or personal growth. Individualized assistance in this area is provided for foreign students, veterans and the handicapped. To supplement the on-campus professional staff, off-campus psychological counseling services are available at no cost to the student.

CAMPUS MINISTRY

A half dozen faiths are represented by staff of the campus ministry. Their offices are located in Primera Casa 233. Assistance is available Monday, Thursday, and Friday from 9:00 a.m. to 5:00 p.m. and Tuesday and Wednesday from 9:00 a.m. to 9:00 p.m.

ORIENTATION

The various academic departments and schools may hold individual orientation programs for their students. Students will be notified by the departments of these sessions.

HOUSING AND TRANSPORTATION

Florida International does not provide on-campus housing, but does assist students in locating housing. For lists of available housing, a student should contact the Division of Student Services.

There is ample parking space for automobiles on-campus with the purchase of a permit, and bike racks are available for securing bicycles. In addition, connecting bus service to the campus is provided by the Metropolitan Transit Authority.

ADMINISTRATIVE AFFAIRS

The Division of Administrative Affairs provides several types of administrative services through its nine offices to assist with the planning and functioning of University programs. Auxiliary Services coordinates the University role in food service, bookstore, and duplicating. The Budget Coordinator prepares annual operating and legislative budgets. Campus Safety coordinates safety services. The Controller records and reports budgets. Internal Control maintains the division manual of policies and procedures and coordinates student fee collection and University ID cards. Personnel serves employee needs. Physical Planning coordinates space provisions. Physical Plant moves furniture, maintains key control, monitors University bulletin boards, and provides cleaning and grounds services. Purchasing arranges for the purchase and maintenance of supplies and equipment and provides storage space.

COMMUNITY AFFAIRS

Florida International University offers a variety of programs and services to fulfill the needs and interests of its students and publics, domestic and international, and to extend the availability of the academic programs of the University to the community.

DIVISION OF ATHLETICS

Recognizing that intellectual growth and physical activity are integrally related in the total development of the individual, the University provides opportunities for the student to participate in a wide variety of physical activities. The Division of Athletics offers programs in 4 areas:

- INTERCOLLEGIATE ACTIVITIES the University porticipates in 5 NCAA sponsored intercollegiote sports for men (soccer, wrestling, baseboll, golf, tennis) and 5 intercollegiote sports for women (valley-ball, softboll, bosketboll, golf, tennis).
- INTRAMURALS touch football, softball, basketball, volleyball, badminton, table tennis, handball, golf, tennis, horseback riding, track and field, and wrestling.
- CLUB SPORTS lacrosse, cross country, basketball, judo, fencing, bowling, sailing, Karate, dance-nastics, weightlifting, jagging, track, rowing, and scuba diving.
- RECREATION ACTIVITES focilities are ovoilable on campus for tennis, outdoor handball, poddleboll, physical conditioning, wrestling, pitch and putt golf, and other recreational activities. Off-campus facilities are ovoilable for bowling, golf, and swimming.

DIVISION OF CONTINUING EDUCATION AND SPECIAL PROGRAMS

The Division of Continuing Education and Special Programs increases the range of educational opportunities available to the community in several ways. Intensive short-term and long-term experiences, credit and non-credit, are provided for professional, paraprofessional, and lay persons in their efforts to stay abreast of the latest developments in their fields of interest. Action forms of community service are offered by the Division as community issues and needs are identified. Examples of such programs are: Human Relations Training for Governmental Employees, Urban Agent, and Human Relations Training for Teachers, Social Educators and Allied Professionals.

DEPARTMENT OF CONFERENCES

The Department provides non-credit conferences, seminars, workshaps, and short caurses, to assist individuals and groups in their quest for lifelong learning. All activities are designed to meet clientele interests and needs.

Program participants are awarded the new CEU (Continuing Education Unit) unit or units, a measure of non-credit activity, for their efforts. One CEU is defined as 10 contact hours of participation in an arganized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. The record of CEU units earned is maintained for individuals by the University Registrar.

DEPARTMENT OF OFF-CAMPUS CREDIT COURSES

The Department serves public schools, business, industry, government units and community oudiences by identifying their various needs for specialized courses, and by coordinating the total resources of the University in affering those credit courses at convenient locations in the community.

DEPARTMENT OF SCHOOL SERVICES

The Department assists the public schools in the four-county service area in surveying their educational needs, and coordinates the University resources in offering seminars, conferences, workshops, nan-credit activities, and consultative services, to meet their needs.

INTERNATIONAL INSTITUTE FOR CREATIVE COMMUNICATION

The Institute encourages creative communications in all academic disciplines by offering programs and activities in the areas of multi-media teaching techniques and educational theories in relation to creative communication.

INSTITUTE FOR WOMEN

The Institute presents conferences, programs, courses, seminars and workshops on issues of particular interest to women. It encourages wamen to take affirmative action on their own behalf. The Institute brings women tagether to design and conduct their own educational programs, to prepare for re-entry into the work force or farmal educational systems, to develop their management skills, and to investigate opportunities for fulfillment and self-improvement through purposeful volunteer activities in the community.

REAL ESTATE INSTITUTE

The Institute offers programs for individuals engaged in the real estate business. Faur caurses are currently affered through the Institute, which are designed to assist participants meet state requirements for the realtar's license and acquire further professional skills.

OFFICE OF ENVIRONMENTAL AND URBAN AFFAIRS

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

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

RESEARCH

Applied research grants are awarded each year by the Joint Center to faculty at both Florida Atlantic University and Florida International University to do research on those environmental and urban problems of current concern in the South Florida area. Besides this supported research at the universities, "in-house" research projects are conducted at the Joint Center Office in Fort Lauderdale.

Supported research projects funded by the Center cover such varied areas as Noise Pollution, Short Term Forecasts of Criminal Activities in Florida, Pollution in Marine Waters Adjacent to Sewage Outfalls, Fire and Rescue Study, Automobile Exhaust Pollutants, Sickle Cell Anemia and Genetic Counseling, Elemental Analysis of Air and Water Samples in Dade and Broward Counties and Juror Selection.

Research results, produced at the Joint Center and elsewhere, are made available to public and private agencies attempting to find and apply solutions to urban and environmental problems.

SERVICE

As a service organization, the Center provides professional assistance, maintains inventories of needs and scientific manpower availabilities, disseminates information, and facilitates communication among groups concerned. The Joint Center publishes a bi-monthly magazine, Florida Environmental and Urban Issues; and a Spanish language edition: Estamos Destruyendo Nuestro Futura?

— Series "Florida 2000".

Special effort is concentrated on providing services to the executive and legislative branches of state government since they are the key element in the solution of urban and environmental problems which increasingly have a regional character.

Citizens' groups are generally over-supplied with ideas and imagination, and grossly undersupplied with facilities and mechanical assistance. Their need for assistance in identifying problems or proposing solutions is minimal as they are presently the major source of our awareness of environmental and urban problems. They do, however, greatly need facilities for communicating with each other and with government and para-government agencies, for identifying other interested individuals, and for gaining information for more effective action. The Center is charged with looking to all these needs.

INSTITUTE FOR DEVELOPMENT OF HUMAN RESOURCES

The Institute focuses the resources of higher education upon the needs of public employees and public agencies in the human services industry. Plans for the Institute include training programs for public employees and research in the area of public agency services.

OFFICE OF FEDERAL LIAISON AND LABOR AFFAIRS

The Office of Federal Liaison and Labor Affairs provides articulation with Federal and State agencies on the nature of the higher education resources available at the University for public service activities. Such activities include development of resources for the University to conduct research, training, exchange, special degree programs, and evaluation studies, as well as short term seminars and workshops.

This office also supervises and coordinates the statewide Institute for Labor Research and Studies.

INSTITUTE FOR LABOR RESEARCH AND STUDIES

The Institute provides educational services, with or without academic credit, in the areas of labor and manpower studies, labor relations for management and union groups, and collective bargaining, throughout the State of Florida. The Institute maintains an applied research program designed to support instruction and consulting in the above areas. In cooperation with the External Degree Program, the Institute sponsors an external baccalaureate degree in Labor and Manpower Studies.

OFFICE OF UNIVERSITY RELATIONS

The office of University Relations fosters communication and cooperation between the community and the University through its several areas of activity described below.

INFORMATION SERVICES

This Office informs the various publics and personnel of the University about the variety of activities and happenings of interest to them through

- · News releases prepared for the mass media
- · Ivory Tower for selected publics
- . The Blue Bulletin of information provided several times weekly to the University staff
- The Speakers Bureau that arranges for University personnel to address requesting groups on topics of interest

PUBLICATIONS

This Office produces or coordinates the preparation of publications which convey information about University programs, services and activities to special audiences among the general public, the community at large, and the University community.

DEPARTMENT OF ALUMNI AFFAIRS

The Department of Alumini Affairs maintains contact with University graduates and former students through programs and publications for the purpose of encouraging their continuing support.

DEPARTMENT OF DEVELOPMENT

The Department of Development encourages contributions of financial resources for the advancement of the University from national and local non-governmental sources. The "margin of excellence" that distinguishes a great university from an adequate university is encouraged and provided through the activities of the following groups:

THE FLORIDA INTERNATIONAL UNIVERSITY FOUNDATION, INC. is composed of business and professional leaders of the community who have dedicated themselves to furthering the University by encouraging, soliciting, receiving and administering donations for the benefit of the institution.

VIVA LAS ARTES was established to encourage interest and support in the fine arts programs of the University. Persons from the Greater Miami area seek funding for student financial oid and the betterment of the cultural arts.

THE SUNBLAZERS CLUB seeks student financial aid and support for the athletic programs of the University with the goal of providing a superior sports and recreation program for University students.

DEPARTMENT OF THE EXTERNAL DEGREE PROGRAM

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

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

PROGRAMS OFFERED

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

NON-TRADITIONAL LIFE EXPERIENCES

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

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

INDEPENDENT STUDY --- NON-RESIDENTIAL WORK

Although most External Degree students take some formal classroom work as part of the Educational Contracts, classroom instruction is not required. When it is clear that classroom work is unsuitable or impossible for a particular student, arrangements for Independent Study, conducted at home or on the job and off of any university campus, are worked out through reading lists, research papers, and educational projects.

Entrance Requirements

1. Florida Residency.

and minority group students.

- 2. Completion of two years of college studies or the equivalent.
- 3. Commitment to independent study.
- 4. Submission of detailed application forms.
- 5. Acceptance as an External Degree student by a faculty adviser.
- 6. An initial interview of approximately one half day.

Fees

Charges are listed under fee section of catalog.

Financial Aid

The External Degree Program has been approved for scholarships, loans, and Veterans benefits. For detailed information, contact: Student Financial Aid.

Union For Experimenting Colleges and Universities University Without Walls

Florida International University is a participating member of the Union for Experimenting Colleges and Universities. Through the Union's University Without Walls (UWW) Program, FIU has received Federal assistance to provide special services for high risk, low income, disadvantaged

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•	Interama Campus

FLORIDA INTERNATIONAL UNIVERSITY

Administration, Faculty, and Staff as of April 1, 1975

OFFICE OF THE PRESIDENT

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Special Assistant to the Fresholm	Dence
ACADEMIC AFFAIRS	
Vice President for Academic Affairs	William A. Jenkins
Associate Vice President for Academic Affairs	Robert C. Fisher
Contracts and Grants	
Coordinator	Ann M. Damidian
Institutional Research	
Director	
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Director	Richard H. Konkel
Laborational Affaire Contra	
International Affairs Center Dean (Acting)	A de DAMESTA
Dean (Acting)	
Libraries	
Director	
Assistant Director, Tamiami Campus	
International Affairs Librarian	
Acquisitions Librarian	
Associate Catalog Librarian Associate Librarian, Interama	
Associate Catalog Librarian	
Assistant Catalog Librarian	John Radencich
Assistant Catalog Librarian	
Assistant Catalog Librarian	
Dacuments Librarian	
Gifts & Exchange Librarian	
Reference Librarian Assistant Reference Librarian	
Assistant Reference Librarian	
Serials Librarian	Caroline J. Barker
Special Collections Librarian	H. Minnie Dunbar
Media Center	
Director of Media Division	A. F. Edmunds
Director of Instructional Media	
Associate Director of Media Division	
A.V. Librarian	
A.V. Librarian	Lynn Mitchroney
A.V. Materials Manager	
A.V. Specialist	
Illustrator II	

Illustrator II	
Illustrator II	
Engineer I	
Learning Resources Specialist	Leila Wolker
Minority Affairs and Women's Concerns	
Director	Franceso Thomas
	Tranceno momos
Registrar	
Director of Acodemic Operations and Registror	Ronold C. Butler
Director of Admissions and Community College Relations	Douglas Hartnagel
Assistant Director of Admissions	
Assistant Director for Community College Relations	
Admissions Counselor	
Director of Registration and Records	William F. Younkin
Student Services	
Dean	Sondro J. Clark
Associate Dean	Don R. Brusha
Coordinator of Career Planning and Placement	
and Cooperative Education Programs	Richord L. Estodt
Director of Career Planning & Placement	Karel S. King
Coreer Counselor	Olgo Mortin
Coordinator of Foreign Student Services	Mario C. Lavernio
Foreign Student Advisor	3
Director of Veterons Programs & Services	
Coordinator of Special Veterans Programs	
Director of Financial Aid	
Financial Aid Counselor	
Financial Aid Counselor	
Coordinator of Student Activities	
Assistant Coordinator of Student Activities	Thomas Riley
College of Arts and Sciences	
Dean (Interim)	Ricordo Arias
Associate Dean	John Porker
Assistant Deon	Lynn Berk
Chairpersons:	
Biological Sciences	Leon Cuervo
Economics	Babatunde Thomas
English	Horry T. Antrim
Fine Arts	
Art	
Music	
Theatre	Philip Giberson
History	Dorden A. Pyron
International Relations	Mortin H. Greenberg
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Modern Languages	Florence L. Yudin
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Physical Sciences	John S. Sheldon
Political Science	Kenneth Boodhoo
Psychology	Ronald S. Tikofsky
Sociology and Anthropology	Nicholas G. Sileo

Faculty

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ANTRIM, HARRY, Ph.D. (University of Florida), Chairperson and Associate Professor, English
ARIAS, RICARDO, Ph.D. (University of Paris), Dean of the College and Professor, Philosophy and Religion
ARNOLD, ST. GEORGE TUCKER, JR. M.A. (Stanford University), Assistant Professor, English
AYBAR, JOSE, M.A. (Maniterey Institute of Foreign Study), Assistant Professor, Political Science

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BABCOCK, R. GEORGE, Ph.D. (University of Virginia), Assistant Professor, Biological Sciences
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BERK, TOBY, Ph.D. (Purdue University), Assistant Professor, Mathematical Sciences
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BOODHOO, KENNETH, Ph.D. (University of the West Indies), Chairperson and Assistant Professor, Political
  Science
BOUMA, FREDERICK J., Ph.D. (University of Illinois), Associate Prafessar, Modern Languages
BRAIN, CARLOS, M.A. (West Virginia University), Assistant Professor, Mathematical Sciences
BROWN, HUGH, Ph.D. (University of Manitoba), Visiting Interim Associate Professor, Psychology
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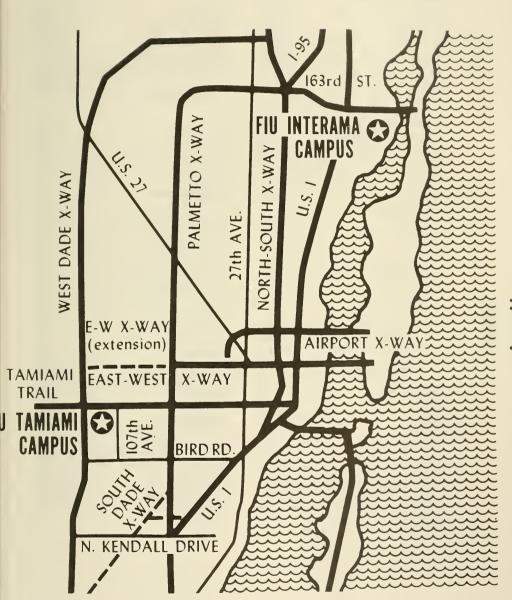
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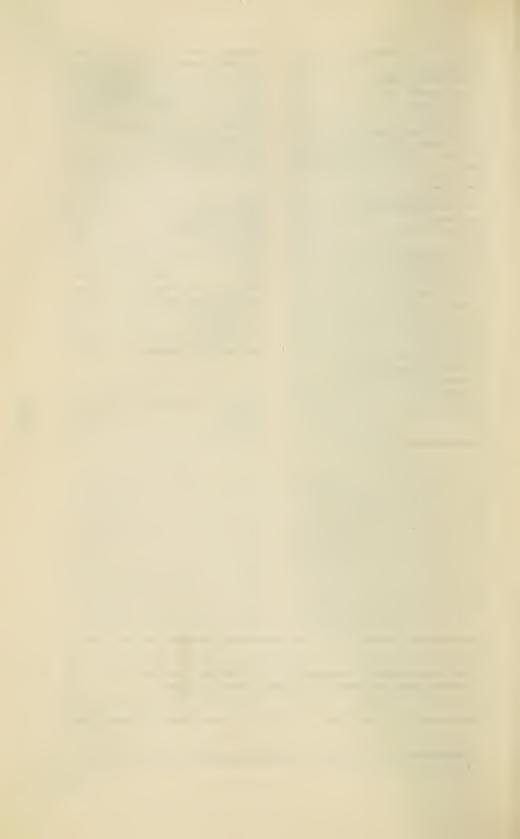
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	Last Day to Pay Fees Without a \$25.00 Late Fee
	Last Day to Apply for Winter Quarter Graduation
January 30	Last Day to Drop a Course Without a Grade
	Last Day to Pay Fees to Avoid Cancellation of Enrollment
·	Last Day to Reinstate Cancelled Enrollments (\$25.00 reinstatement fee)
March 18	
March 22	All Grades Due in Registration Office by 12:00 Noon.
SPRING QUARTER, 1976	
February 27	Last Day for Receipt of Applications for Regular Admission to
,	Spring Quarter
March 26	Change Day (Late Registration and Class Scheule Adjustments)
March 29	Classes Begin
	Last Day to Complete Registration
	Last Day of Official Drop and Add Period
	Last Day to Drop Courses or Withdraw From University Without In-
	curring a Financial Liability
April 12	Last Day to Pay Fees Without a \$25.00 Late Fee
	Last Day to Apply for Spring Quarter Graduation
	Last Day to Drop a Course Without a Grade
	Last Day to Pay Fees to Avoid Cancellation of Enrollment
May 14	Last Day to Reinstate Cancelled Enrollments (\$25.00 reinstate-
,	ment fee)
May 31	Memorial Day Holiday (University Closed)
June 10	
June 12	Official Commencement Exercises
June 14	. All Grades Due in Registration Office by 12:00 Noon.
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SUMMER QUARTER, 1976	
May 22	.Last Day for Receipt of Applications for Regular Admission to
	Summer Quarter
	. Change Day (Late Registration and Class Schedule Adjustments)
June 21	
June 28	.Last Day to Complete Late Registration
	Last Day of Official Drop and Add Period
	Last Day to Drop Courses or Withdraw From University Without In-
	curring a Financial Liability
July 5	.Independence Day Holiday (University Closed)
July 6	.Last Day to Pay Without a \$25.00 Late Fee
July 9	Last Day to Apply for Summer Quarter Graduation
July 16	.Last Day to Drop a Course Without a Grade
July 19	. Last Day to Pay Fees to Avoid Cancellation of Enrollment
August 6	Last Day to Reinstate Cancelled Enrollments (\$25.00 Reinstate-
	ment Fee)
August 26	
August 30	. All Grades Due in Registration Office by 12:00 Noon

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