1972

Introductory catalog. Supplement: Course descriptions. [1972-1973]

Florida International University

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Dade's own state university arises

Stimulating all-purpose building is envisioned

The new campus occupies a 72-acre site

It presents an opportunity for Dade County students to
attend a major university closer to home...

The campus includes...
This publication, containing course descriptions, is a supplement to the Introductory Catalog of Florida International University, which will open to upper division and graduate students in September, 1972. The two publications combine to form a guide for the 1972-73 academic year. Some changes in scheduled courses, particularly in regard to the quarters in which they are offered, may have to be made. The University, however, will adhere as closely as possible to the planned programs.

Admission to Florida International University is granted without regard to race, creed, color, sex, age, or national origin. The University is an Equal Opportunity Employer.
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Student life begins at Primera Casa.
Academic Calendar, 1972-73

FALL QUARTER

Registration By Mail August 1-September 1
New Student Orientation September 11-15
Official Opening Ceremonies September 14
Change Day and Late Registration September 18
Classes Begin September 19
Last Day to Late Register and/or Add a Course September 25
Faculty-Student-Administrative Review/Work Days (first year only) October 2-6
Classes Resume October 9
Thanksgiving Holidays November 22, 23, 24
Classes Resume November 27
Quarter Ends December 8
Winter Recess December 9-January 2

WINTER QUARTER

Registration By Mail November 1-30
Change Day and Late Registration January 5
Classes Begin January 8
Last Day to Register and/or Add a Course January 15
Quarter Ends March 20
Quarter Break March 21-27

SPRING QUARTER

Registration By Mail February 12-March 9
Change Day and Late Registration March 30
Classes Begin April 2
Last Day to Register and/or Add a Course April 9
Holiday (Memorial Day) May 28
Quarter Ends June 13

SUMMER QUARTER**

Registration By Mail May 1-31
Change Day and Late Registration June 19
Classes Begin June 20
Last Day to Late Register and/or Add a Course June 27
Holiday (Independence Day) July 4
Quarter Ends August 15

**Students having classes during a M-Th sequence will meet the first 4 Wednesdays (June 20, 27, July 11 and 18).

Students having classes during a Tu-F sequence will meet the last 4 Wednesdays (July 25, August 1, 8 and 15).
Baccalaureate and Master Degrees
Offered by
FLORIDA INTERNATIONAL UNIVERSITY

College of Arts and Sciences —
    Bachelor of Arts
    Bachelor of Science
    Bachelor of Fine Arts

School of Business and Organizational Sciences —
    Bachelor of Business Administration
    Master of Business Administration
    Master of Science

School of Education —
    Bachelor of Science
    Master of Science

School of Health and Social Services —
    Bachelor of Science

School of Hotel, Food and Travel Services —
    Bachelor of Science
Meaning of Symbols

In the interest of making this publication available at the earliest possible date to students desiring to enroll at Florida International University, some courses listed do not show a "F, W, S, or SS" indicating the seasonal quarter in which they are offered -- Fall, Winter, Summer or Summer School. In most cases where the term is not designated, the course will be offered in the 1973-74 academic year. As some changes will be made, however, the student interested in a particular course should check with his adviser. Credit hours are designated immediately following the titles of courses.
College of Arts and Sciences

Dean Butler H. Waugh
Generalized Program of Study for ANTHROPOLOGY MAJORS

Anthropology will be part of the Department of Sociology/Anthropology, and all information should be obtained from that department’s office.

Lower Division Preparation:

Ninety quarter hours (60 semester hours) or the AA degree from a junior college. Work should be pre-arts and sciences or pre-anthropology if such a program exists. If the student does not have an AA degree, his course work must reflect ability to handle extensive reading assignments with fair comprehension.

Courses in addition to required General Education core studies should include introductory courses to Physical and Cultural Anthropology, plus other arts courses offered. Courses in related social science disciplines are advisable and preferred. If students are interested in Physical Anthropology, some work in the sciences, particularly the natural sciences is suggested.

Florida International University Generalized Program of Study:

A full degree program is not planned for the first academic year, but students who enter as juniors will be advised so that a major can be obtained by the end of the second academic year.

A selected and limited number of courses will be offered the initial year, but the full range of courses needed for a major will not be offered until the second academic year.

Course offerings will relate the rich theoretical findings from past anthropological study and research to the current areas of vital concern such as health delivery systems, education growth and development, and the vital area of cultural change.

Students wishing to major in Anthropology should see the academic advisor, and each student’s program will be arranged to meet his needs and the University’s resources.

Program Requirements:

A major will consist of 40 to 45 quarter hours work in Anthropology, and will include extensive laboratory and field work. Each student will be required to work outside the formal classroom structure under faculty supervision and to complete and defend an independent research project.
ANTHROPOLOGY

ANT 301 — INTRODUCTION TO CONTEMPORARY ANTHROPOLOGY (5)
An intensive introduction to the elements of anthropology. An analysis of the range and variability of human behavior. An introduction to the broad scope of anthropological study and its fields of interest.

ANT 302 — ANTHROPOLOGY IN CONTEMPORARY SOCIETY (5) (F)
A study of the role of anthropology in contemporary society with particular emphasis on the study of values, family organization, socialization, kinship, education and community integration.

ANT 303 — INTRODUCTION TO URBAN-RURAL ANTHROPOLOGY (5)
A study of urban life with particular emphasis on man's movement from rural life to large urban centers. Emphasis is placed on the role of the rural migrant and his transition to an urban role. Correlative changes in voluntary associations, kinship groups, etc., are reviewed.

ANT 305 — BASIC ETHNOLOGY (5) (SS)
The study of the evolution of races, present living races, and mechanism for differentiating major human groups.

ANT 306 — ECOLOGY OF THE CITY (5)
The study of man and his existence in the city.

ANT 307 — METHODOLOGICAL TECHNIQUES IN ANTHROPOLOGY (5) (W)
An introduction to the techniques of field observation, interviewing, recording. Training in field methods, collection and presentation of data, and interpretation of results. Laboratory work required.

ANT 308 — CONTEMPORARY ISSUES IN THE STUDY OF CULTURE AND PERSONALITY (5) (S)
The role of culture and the formation of personality. Problems of individual adjustment to the demands of culture. Psychological approach to culture.

ANT 401 — COMPARATIVE URBAN/RURAL ANTHROPOLOGY (5)
Concentrated study of urban/rural anthropology using selected cultures of the world to reflect factors associated with urban and rural dominated cultures.

ANT 402 — CULTURES IN CONFLICT (5) (S)
The study of various cultures with emphasis placed on conflicting aspects of cultures.
ANT 403 – ANTHROPOLOGICAL APPROACHES TO THE STUDY OF RACIAL AND CULTURAL MINORITIES (5)  (F)
The study of identified racial and cultural minorities with particular emphasis on their interrelatedness to majority races and cultures with whom they exist.

ANT 404 – CARIBBEAN CULTURAL ANTHROPOLOGY (5)
Concentrated study on Caribbean nations and their cultures. Particular emphasis is given to their origins and development and an assessment of their relationship to our own culture.

ANT 405 – ANTHROPOLOGICAL CONSIDERATIONS OF EDUCATIONAL SYSTEMS (5)
Social organization and cultural values of educational institutions.

ANT 406 – CULTURAL PATTERNS OF CHANGING SOCIETIES IN ASIA (5)

ANT 407 – ANTHROPOLOGICAL STUDIES OF SOCIAL ORGANIZATION (5)

ANT 409 – PRINCIPLES OF POLITICAL ANTHROPOLOGY (5)
Theory and method of comparative political systems. A study of their laws, cultural background, and relationship to society. Emphasis on the evolution of the political system and analysis ranging from primitive to complex.

ANT 410 – CULTURAL ANTHROPOLOGY IN CENTRAL AND SOUTH AMERICA (5)
Concentrated study on Caribbean nations and their cultures. Particular emphasis is given to their origins and development and an assessment on their relationship to our own culture.

ANT 411 – CHANGING CULTURAL PATTERNS IN AFRICA (5)
Concentrated study on Caribbean nations and their cultures. Particular emphasis is given to their origins and development and an assessment of their relationship to our own culture.

ANT 412 – ANTHROPOLOGICAL STUDIES OF THE MIGRANT FARMER (5)
Concentrated area/problem studies.

ANT 413 – ANTHROPOLOGICAL AND ENVIRONMENTAL PROBLEMS AND SOLUTIONS (5)
Orientation of Anthropological study towards environmental issues.

ANT 414 – CULTURAL PATTERNS AMONG THE POOR AND DISADVANTAGED (5)
Concentrated problem study of the emerging culture of poverty.
ANT 491 – DIRECTED INDIVIDUAL STUDY (5)

ANT 492 – DIRECTED FIELD STUDY (5)

ANT 501 – APPLIED ANTHROPOLOGY (5)
Study of anthropology as an applied behavioral science.

ANT 502 – INSTITUTIONAL SERVICES AND MULTICULTURAL SOCIETY (5)
Survey and critique of institutional services as a response to the demands from society’s many cultures.

Generalized Program of Study for ART MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses: None

Recommended Courses:
- Drawing 6 (Semester Hours)
- Design (2 & 3 dimensional) 6 (Semester Hours)
- Art Survey 6 (Semester Hours)

Remarks:
Students should bring a portfolio of junior college work during first advisement session.

Students without an Associate of Arts degree or lacking proficiency in drawing and design and not having taken a survey of Art History will be expected to take more than 90 quarter hours to complete the degree.

Florida International University Generalized Program of Study:

Required Courses:
- Art History 10 quarter hours
- Studio Art (one area) 20 quarter hours
- Studio & Art History electives 30 quarter hours
- Electives 90 quarter hours
ART

ARH 305 – SURVEY OF THE CONTEMPORARY ARTS (5)  (F,S)
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.

ARH 306 – SURVEY OF ART HISTORY (5)
A survey of the major periods of Western art, mainly through the study of painting, sculpture and architecture. Open to all students.

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

FIA 306 – INTRODUCTION TO 3D STUDIO ART (5)  (W-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)  (F,W,S,SS)
Drawing will be considered as an essential part of every art student’s curriculum. Depending on his lower level work, a student will be encouraged to take at least one drawing course at the University. Must be taken along with another studio course. Off-campus studio work may be arranged. (May be repeated)

FIA 325-525 – PAINTING (5-5)  (F,W,S)
A study through the use of slide projections and individual criticism of the student’s work. Any media on flat canvas up to painted, fabricated sculpture may be used. Off-campus studio work may be arranged. (May be repeated)

FIA 335-535 – SCULPTURE (5-5)  (F,W,S)
With a background in beginning sculpture, the student will develop standards of excellence both in concept and technique, along the lines of the greatest individuality possible. An equipped shop will be available to the student. (May be repeated)

FIA 337-537 – JEWELRY AND METALS (5-5)  (F,W,S,SS)
A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore conceptual and technical possibilities of an individual metal. A shop will be available for students. (May be repeated)
FIA 345-545 – PRINTMAKING (5-5) (F,W,S)
With a knowledge of basic etching and relief printing, the art student will explore a specific media such as etching, lithography, silk-screen, etc., in an off-campus studio. Studio and instructor must be approved by the Art Department faculty. (May be repeated)

FIA 355-555 – PHOTOGRAPHY (5-5) (F,W,S)
With a knowledge of beginning developing, printing and use of a camera, the art student will pursue his own direction with a heavy emphasis on individual approach, print quality, use of equipment and criticism in an off-campus studio. Studio and instructor must be approved by the Art Department faculty. (May be repeated)

FIA 365-565 – CERAMICS (5-5) (F,W,S)
The student will explore all aspects of human expression in clay and glaze. Students are expected to be largely self-directed. An equipped studio will be available to all students. (May be repeated)

FIA 385-585 – DIRECTED STUDY (5-5) (W,S,SS)
A group of students, with the approval of the Art Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as glass, 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 595 – RESEARCH (1-5) (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)

FIA 375 – BASIC ART IN CHILDHOOD EDUCATION (5) (F,W,S,SS)
A study of drawing, printmaking, painting and crafts as they relate to children.

ARH 515 – AFRICAN ART (5)
Lectures, slides, visitors and student research will be used.

ARH 525 – PREHISTORIC AND ANCIENT ART (5)
Lectures, slides, visitors and student research will be used.

ARH 535 – GREEK AND ROMAN ART (5)
Lectures, slides, visitors and student research will be used.

ARH 545 – MEDIEVAL ART (5)
Lectures, slides, visitors and student research will be used.
ARH 555 – RENAISSANCE ART (5)
Lectures, slides, visitors and student research will be used.

ARH 565 – 17th-19th CENTURY ART (5)
Lectures, slides, visitors and student research will be used.

ARH 567 – AMERICAN ART (5)
Lectures, slides, visitors and student research will be used.

ARH 575 – MODERN ART (5)
Lectures, slides, visitors and student research will be used.

ARH 585 – CONTEMPORARY ART (5)
Lectures, slides, visitors and student research will be used.

Generalized Program of Study
for
BIOLOGICAL SCIENCES MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses:
- General Biology 8 semester hours
- General Chemistry 8 semester hours
- General Physics 8 semester hours
- Mathematics, including Analytical Geometry 6 semester hours

Recommended Courses:
- Foreign Language
- Calculus
- Organic Chemistry

Remarks:
Six (6) semester hours above the introductory course level in biology may be counted toward the upper division major.

Florida International University Option in General Biology: *

Required Courses:
- Core Curriculum
  - BSC 301 – Bio-organic Chemistry 7 quarter hours
  - BSC 302 – Biochemistry and Cell Biology 7 quarter hours
  - BSC 303 – Genetic Biology 7 quarter hours
  - BSC 401 – Developmental Biology and Comparative Morphology 7 quarter hours
BSC 402 - Organismic and Environmental Biology 7 quarter hours
Biology Electives 15 quarter hours
Mathematics 321 5 quarter hours
Electives 35 quarter hours
Total 90 quarter hours

*Options in Environmental, Organismic and Special Biology in Preparation.

Remarks:
Special program: AB (with Honors)

Requirements:
a) Admission to program by permission of Department
b) Program of study arranged in consultation with Faculty advisor
c) Completion of Undergraduate Honors Thesis

BIOLOGICAL SCIENCES

BSC 300 - SCIENCE AND SOCIETY (3) (S)
Interdepartmental course on social problems related to the impact of science and technology on the biological and urban environment.

BSC 301 - BIO-ORGANIC CHEMISTRY (7) (F)
Introduction to the principles of organic chemistry. Structure and reactions of classes of organic compounds with emphasis on simple constituents of living matter. Reactivity of organic compounds, introduction to enzymatic reactions, enzyme and co-enzyme chemistry. Lectures, conferences, and laboratory. Core course required of majors in Biological Sciences.

BSC 302 - BIOCHEMISTRY AND CELL BIOLOGY (7) (W)
Survey of protein and nucleic acid chemistry. Metabolism and regulation of metabolism. Cell structure and function of the cell, cell organelles and membranes, mitosis and meiosis. Lectures, conferences and laboratory. Core course required of majors in Biological Sciences.

BSC 303 - GENETIC BIOLOGY (7) (S)
Biosynthesis and function of macromolecules. Mechanisms of transfer, expression, and regulation of biological information. General genetics, cytogenetics, introduction to population genetics. Lecture, conferences, and laboratory. Core course required of majors in Biological Sciences.
BSC 310 – GENERAL MICROBIOLOGY (6)  (S)
Introduction to the principles and techniques of microbiology. Comparative physiology, biochemistry, ecology and evolution of bacteria, viruses and yeasts. Introduction to Protozoology. Lecture and laboratory.

BSC 320 – BOTANY (5)
Taxonomy, distribution and evolution of plants. Lecture, conferences, field trips and laboratory.

BSC 321 – THE ALGAE (5)  (F)
Taxonomy, morphology, physiology and ecology of the algae. Lecture, conference, field trips and laboratory.

BSC 330 – ZOOLOGY (5)
Taxonomy, distribution and evolution of animals. Lecture, conference, field trips and laboratory.

BSC 331 – THE INVERTEBRATES (5)  (S)
Taxonomy, anatomy, development, physiology and ecology of major invertebrate phyla excluding insects. Emphasis on marine invertebrates. Lecture, conference, field trips and laboratory. May be repeated for credit.

BSC 332 – GENERAL ENTOMOLOGY (5)

BSC 333 – GENERAL ICHTHYOLOGY (5)  (W)
Taxonomy, distribution, development, anatomy and physiology of fresh water and marine fish. Lecture, conference, field trips and laboratory. May be repeated for credit.

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

BSC 335 – BIRDS AND MAMMALS (5)
Taxonomy, distribution and natural history of birds and mammals. Lecture, conference, field trips and laboratory. May be repeated for credit.
BSC 348 – ELEMENTARY NEUROBIOLOGY (5)
Survey of anatomy and physiology of invertebrate and vertebrate nervous systems, sensory physiology. Introduction to methods of study of neural function. Lecture, conference and laboratory.

BSC 349 – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR (5)
Biological basis of behaviour emphasizing neural and hormonal mechanisms of integrated behaviour. Lecture, conference, library or laboratory projects.

BSC 370 – MEDICAL BIOCHEMISTRY (4) (F)
Fundamentals of biochemistry course applied to medical problems required in Dietetics and Nutrition curriculum. Lecture and laboratory.

BSC 371 – MEDICAL BIOCHEMISTRY (4) (W)
Continuation of BSC 370

BSC 372 – HUMAN ANATOMY AND PHYSIOLOGY (5) (S)
Required course in Medical Technology curriculum. Lecture and laboratory.

BSC 373 – HUMAN ANATOMY (5) (F)
Required course in Physical Therapy and Occupational Therapy. Lecture and demonstration.

BSC 374 – HUMAN PHYSIOLOGY (3) (F)
As BSC 373

BSC 375 – MEDICAL PARASITOLOGY (4) (F)
Required course in Medical Technology curriculum. Lecture and laboratory.

BSC 376 – IMMUNOLOGY AND GENETICS (4) (W)
Course required in Physical Therapy curriculum. Lecture and laboratory.

BSC 377 – NEURAL SCIENCE (3) (W)
Course required in Medical Technology curriculum. Lecture, laboratory, and demonstration.

BSC 380 – PROJECT LABORATORY (5-8) (W,S,SS)
Independent laboratory study in a project or projects of the student’s choice. Registration by consultation with instructor. May be repeated for credit.
BSC 384 — HISTORY AND PHILOSOPHY OF SCIENCE (5)  (S)
Philosophies of science with emphasis on Biology. Problems in contemporary ethics with reference to the impact of science and technology on society.

BSC 386 — COMPUTER APPLICATIONS TO BIOLOGY (5)  (W)
Elementary instruction in the analysis of data from biological systems. Each student will be assigned a project. Lecture, conference and computer laboratory.

BSC 389 — CURRENT TOPICS IN BIOLOGY (5)  (W)
Course composed partly of invited lectures by prominent biologists on contemporary social and scientific problems. The balance will be lecture-discussion sessions organized by graduate students under faculty supervision and will deal with current problems of major significance in Biology.

BSC 390 — INDEPENDENT STUDY AND SEMINAR (5)  (S)
Independent library projects and written reports. Reports may be presented orally in Department Seminar.

BSC 395 — SUMMER QUARTER IN BIOLOGY (12)  (SS)
Eight weeks of intensive study on selected topics or research projects. By arrangement with staff. Conference, library work, field trips, excursions, laboratory.

BSC 401 — DEVELOPMENTAL BIOLOGY AND COMPARATIVE MORPHOLOGY (7)

BSC 402 — ORGANISMIC AND ENVIRONMENTAL BIOLOGY (7)
Introduction to physiology, chemical and neural integration. Principles of ecology: Relation and adaptation of the organism to the environment; population dynamics, taxonomy and evolution. Lecture, conference and laboratory. Core course required of majors in Biological Sciences.

BSC 404 — BIOPHYSICS (6)
Topics in biophysics. Effect of radiation on biopolymers and microorganisms. Muscle contraction, transport across membranes, bioluminescence. Lecture, conference and laboratory.
BSC 407 – BIOCHEMISTRY (6)
Chemical reactions and macromolecular properties of proteins, nucleic acids and polysaccharides. Genetic and evolutionary aspects of protein structure. Lecture, conference and laboratory.

BSC 408 – BIOCHEMISTRY II (6)
Comparative biochemistry: Metabolism and regulation of metabolism in microorganisms, plants, and animals, mechanisms of enzyme reactions. Lecture, conference and laboratory.

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

BSC 421 – MYCOLOGY (5)
Taxonomy, morphology, physiology and ecology of the fungi. Lecture, conference and laboratory.

BSC 434 – AMPHIBIANS AND REPTILES (5)
As BSC 334

BSC 435 – BIRDS AND MAMMALS (5)
As BSC 335

BSC 441 – MOLECULAR BIOLOGY AND GENETICS (5)
Advanced topics in nucleic acids, cellular control mechanisms, biochemical and developmental genetics. Lecture and conference.

BSC 442 – MOLECULAR BIOLOGY LABORATORY (5)
Analytical, physical and biochemical methods in the study of nucleic acids; phage and microbial genetics, tissue culture. May also be taken as a project laboratory.

BSC 446 – IMMUNOCHEMISTRY AND IMMUNOBIOLOGY (5)
Chemistry of antibodies, antigens, serological reactions and complement fixation. Discussion of the biosynthesis of antibodies. Lecture, conference, and laboratory.

BSC 461 – ECOLOGY (5)
BSC 470 – MEDICAL BIOCHEMISTRY (4)
Fundamentals of biochemistry applied to medical problems. Required course in Medical Technology curriculum. Lecture and laboratory.

BSC 471 – MEDICAL BIOCHEMISTRY II (4)
Continuation of BSC 470

BSC 472 – MICROBIOLOGY (5)
Course required in Dietetics and Nutrition curriculum. Lecture and laboratory.

BSC 473 – MICROBIOLOGY (3)
Course required in Medical Technology curriculum. Lecture and laboratory.

BSC 475 – HEMATOLOGY (5)
Course required in Medical Technology curriculum. Lecture and laboratory.

BSC 480 – PROJECT LABORATORY (5-8)
As BSC 380

BSC 489 – CURRENT TOPICS IN BIOLOGY (5)
As BSC 389

BSC 490 – INDEPENDENT STUDY AND SEMINAR (5)
As BSC 390

BSC 491 – HONORS THESIS (5-10)
Independent research project to satisfy the Honors requirement. Registration by admission to the program.

BSC 495 – SUMMER QUARTER IN BIOLOGY (12)
As BSC 395

BSC 548 – NEUROBIOLOGY I (5)
Comparative neuroembryology, gross and microscopic neuroanatomy of invertebrates and vertebrates. Lecture, conference, and laboratory.

BSC 549 – ADVANCED NEUROBIOLOGY II (5)
Comparative neurophysiology, biophysical basis of action and resting potential, synaptic transmission. Neural coding, integration in sensory and motor systems. Neurophysiological basis of behaviour. Lecture, conference and laboratory.
BSC 565 — PLANT PHYSIOLOGY AND BIOCHEMISTRY (5)  (W)
Advanced topics emphasizing ion transport, plant hormones, tropisms and photosynthesis. Lecture, conference and laboratory.

BSC 583 — BIOLOGY FOR TEACHERS (5)  (S,SS)
Survey of areas in biological sciences emphasized in K-12 education. Principally for continuing education programs. Course design in collaboration with practicing teachers in the Miami area. Topics vary, and the course may be repeated for credit.

BSC 585 — TEACHING EXPERIENCE (5)  (W,S,SS)
Supervised lecture, conference and laboratory instruction. Student will develop a topic for presentation in a departmental course at the 300 and 400 level. Registration by consent of instructor.

BSC 604 — BIOPHYSICS (5)  (S)
Enzyme kinetics; behaviour of macromolecules in solutions. Interaction of macromolecules with small molecules, aggregation and self assembly of subunits. Lecture, conference, laboratory and computer laboratory.

BSC 641 — CELL BIOLOGY AND DEVELOPMENT (5)  (F)
Biology of fertilization, behaviour of cells in developing systems, cellular regulatory mechanisms and morphogenesis. Biological periodic functions, growth regulators. Lectures, conferences and reports.

BSC 649 — NEUROPHYSIOLOGY AND COMPARATIVE ETHOLOGY (5)
Integration mechanisms by the central nervous system and by endocrines, as they affect behaviour. Lecture, conferences, and reports.

BSC 661 — ADVANCED ECOLOGY (5)
Advanced aspects of ecology. Topics offered may vary in succeeding quarters. Conference, field work, laboratory and computer laboratory. May be repeated for credit.

BSC 663 — EVOLUTION OF LIFE (5)
Evolution of living matter from simple organic compounds. Lecture, conferences and reports.

BSC 680 — PROJECT LABORATORY (5)  (F,W,S,SS)
As BSC 380
BSC 686 — COMPUTER APPLICATIONS TO BIOLOGY (5) (S)
Advanced computer programming in biological sciences. Modeling of biological systems of varying complexity and applications of analog computers.

BSC 690 — SEMINAR IN BIOLOGICAL SCIENCES (5) (F,W,S,SS)
Seminars presented by graduate students in specialized areas of biological sciences. Course provides opportunities for students to gain experience in extraction, evaluation and oral presentation of information from the biological literature. May be repeated for credit.

Generalized Program of Study for CHEMISTRY MAJORS

Lower Division Preparation:
As part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses:
- General Chemistry 12 semester hours
- (or General Chemistry with Qualitative Analysis) 10 semester hours
- Algebra and Trigonometry 10 semester hours

Required Courses Which May Be Taken At Florida International:
- General Physics with Calculus 12 semester hours
- Organic Chemistry 8 semester hours
- Calculus I 4 semester hours

Recommended Courses:
- Foreign Language
- Analytical Chemistry
- Principles of Biology

Florida International University Generalized Program of Study:

Required Courses:
- Thermodynamics 5 quarter hours
- Equilibrium and Properties of Solution 5 quarter hours
- Quantum Mechanics and Quantum Chemistry 5 quarter hours
- Physical Chemistry — Laboratory 5 quarter hours
- Senior Seminar 5 quarter hours
- Calculus II 5 quarter hours
An additional 15 hours of senior level courses, at least 10 hours of which are a laboratory course.

**Recommended Courses:**

10 hours in upper level courses in Physics and/or Biology.

**Remarks:**

Electronics laboratory, optics and stimulated emissions, biochemistry, computer science and statistics are areas of study especially valuable for all majors. Good reading knowledge of at least one foreign language is desirable.

On beginning the required physical chemistry sequence, the student will be asked to demonstrate adequate familiarity with physics and calculus.

**CHEMISTRY**

**CHE 301 – ORGANIC CHEMISTRY I (7) (F,S)**

The syntheses, properties and reactions of various exemplary organic compounds will be discussed. Laboratory will involve syntheses and identification and techniques commonly used in the organic chemistry laboratory. Competence in general chemistry is required as is familiarity with algebraic techniques. (Lecture and laboratory)

**CHE 302 – ORGANIC CHEMISTRY II (7) (W,S)**

Continuation of CHE 301: structure and confirmation; spectral analysis. (Lecture and laboratory)

**CHE 303 – ORGANIC CHEMISTRY III (7) (F,S)**

Continuation of CHE 302: special compounds. (Lecture and laboratory)

**CHE 305 – INTRODUCTION TO PHYSICAL CHEMISTRY (7) (F,S,SS)**

Fundamental principles of physical chemistry: elementary aspects of thermodynamics, enthalpy and free energy; a preliminary discussion of atomic and molecular structure. 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 306 – INSTRUMENTATION AND DESIGN (5)  
In this course the student will work with an electronic patch kit and design such pieces of standard laboratory equipment as amplifiers, pH meters, recorders, simple spectrophotometers and various regulating units. Comprehensive background in both general chemistry and general physics is advisable. This is essentially a course in modern techniques of analytical chemistry. (Laboratory)

CHE 307 – INTRODUCTION TO INORGANIC CHEMISTRY (7)  
A comprehensive review of fundamental inorganic chemistry and inorganic qualitative and quantitative analysis. (Lecture and laboratory)

CHE 321 – THERMODYNAMICS (5)  
Fundamental principles of thermodynamics; the first, second and third laws, free energy, entropy, kinetic theory of gases, the chemical potential, phase rule and its applications, concepts of activation energy. The first in a three-quarter physical chemistry sequence. The student requires competence in general chemistry and in mathematics through Calculus I. Recommended for students majoring in Chemistry or Biology, and for those planning careers in Medicine, Veterinary Medicine and Environmental Science. (Lecture only)

CHE 322 – EQUILIBRIUM, KINETICS, AND PROPERTIES OF SOLUTIONS (5-5)  
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. Recommended for Chemistry and Biology majors, those desiring careers in the Health Sciences, and Environmental Science majors, especially students who are interested in the properties of water and in oceanography. (Lecture)

CHE 323 – QUANTUM MECHANICS AND QUANTUM CHEMISTRY (5)  
The third in the physical chemistry series: simple quantum 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 calculus, including second order differential equations, is required. Of particular interest to those students majoring in Chemistry, Biochemistry or Mathematics and for high school chemistry teachers. (Lecture only)
CHE 325 — PHYSICAL CHEMISTRY (5) (F, W, S, SS)
The physical chemistry laboratory carries variable credit from one to five hours per quarter. Completion of five projects in physical chemistry laboratory is the requirement for the full five hours of credit. The laboratory can be corequisite with CHE 321, 322 and 323. Reaction kinetics, calorimetry and thermal chemistry, spectrophotometry, various determinations of colligative properties of solutions, analysis by gas chromatography, polarography, polarimetry and dispersion of polarized light, work with a vacuum system and gas handling. (Laboratory)

CHE 335 — ORGANIC QUALITATIVE ANALYSIS (5) (F)
Techniques of analysis for a variety of organic compounds, including natural products and compounds of biochemical interest. Modern pollution analysis techniques will be studied. The student should be thoroughly competent in organic chemistry. (Lecture and laboratory)

CHE 405 — ADVANCED SPECTROSCOPY AND MOLECULAR STRUCTURE (5) (F, W, S)
Atomic structure, diatomic molecules, electronic structure, vibrational and rotational spectra, moments of inertia, dipole moments, the rotating harmonic oscillator, infra-red spectroscopy, near and far ultra-violet spectroscopy, nuclear magnetic resonance, and electron spin resonance spectroscopy. The student will work in the ultra-violet, visible, infra-red range, with atomic absorption and with fluorimetry. (Lecture and laboratory)

CHE 406 — STATISTICAL MECHANICS (5)
Principle of statistical mechanics, kinetic theory, energy distributions, statistical derivation of entropy. The student should be thoroughly conversant with thermodynamics and advanced calculus. (Lecture)

CHE 407 — SPECIAL ORGANIC SYNTHESSES (5) (S)
Laboratory syntheses of organic compounds of interest in various areas, demonstrating various synthetic techniques. Organic chemistry and the physical chemistry sequence are prerequisites. (Lecture and laboratory)

CHE 408 — INORGANIC CHEMISTRY (5) (S)
Molecular structure of inorganic compounds, ligand-field theory, the metallic bond and structure of metals, crystal structure. The student should be competent in quantum chemistry. (Lecture)
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. Ultimately, this research work will carry a total of 15 credits. 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. Students in environmental science also have this research available as EVR 491-492-493.

CHE 495 — SENIOR SEMINAR (5)  (F,W,S)
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, and anyone else who is interested.

CHE 505 — WATER AND WASTE CHEMISTRY (5)  (F,W,SS)
Analysis of mixed solutions, properties of solutions, commonly used analytical methods, properties of various water pollutants, methods of waste treatment. Student must be conversant with properties of solutions. (Lecture and laboratory)

CHE 506 — RADIOCHEMISTRY AND NUCLEAR CHEMISTRY (5)  (F,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 laboratory)

CHE 512 — TOPICS IN ENVIRONMENTAL CHEMISTRY (5)  (F,SS)
Power generation and use, common pollutants in water and air, biogeochemical cycles, heat and energy relationships. No particular background is required. The course is especially recommended for elementary teachers. Some simple demonstrations for use in environmental studies curricula will be incorporated. (Lecture)
Generalized Program of Study
for
COMPUTER SCIENCE MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses:

- Mathematics and Statistics
- Computer Programming

Remarks:

Unless a student has a basic education in computer science as demonstrated by experience or by completion of a pre-computer science program, he will be required to take a 10-hour introduction to computers sequence at Florida International University.

Students who pursue a pre-graduate program in computer science or a program involving scientific computing or numerical techniques will be required to study calculus.

Florida International University Generalized Program of Study:

Required Courses:

- Mathematics for the Management and Social Sciences I and II
- Applied Linear Algebra
- Computer Science Courses *
- Concentration Outside Major Area

Remarks:

The student who is interested in mathematical and numerical techniques related to the use of the computer would add a selection of courses from those in differential equations, numerical analysis, mathematical models and applications, introductions to operations research, optimization and mathematical programming, or other appropriate courses. The student who is interested in the concepts and methods of the processing and utilization of information and with the theory and operation of systems which process information would add courses such as the following: advanced programming languages, computer systems, systems programming, data communication, data structures, information systems, analysis and design.

* Listed under Mathematical Sciences.
Generalized Program of Study
for ECONOMICS MAJORS

Lower Division Preparation:

As part of the 90 quarter hours (60 semester hours) of lower division course work to enter this upper division major, note the following recommendations and/or requirements.

**Required Courses:** None

**Recommended Courses:**
- Principles of Economics 6 semester hours
- Social Science 3 semester hours
- Humanities 6-9 semester hours
- College Algebra, Trigonometry 6 semester hours
- Statistics 3 semester hours

**Remarks:**
Students who do not take Principles of Economics at the lower division level will be required to take Economics 301 during their first quarter at Florida International.

Florida International University Generalized Program of Study:

**Required Courses:**
- Economics 35-50 quarter hours
- Mathematics 5 quarter hours
- Electives 40-50 quarter hours

**Remarks:**
It is recommended that students who anticipate post-graduate work in Economics or employment in public or business policy planning complete 10 quarter hours of specified quantitative method courses.

Interested students are encouraged to allocate elective hours to foreign language study.

**ECONOMICS**

**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 – ECONOMICS OF ADMINISTRATIVE AND CONSUMER DECISIONS (5) (F,W,S,SS)
The application of economic theory to decision-making by consumers and administrators. Demand and cost analysis (including demand forecasts); price policy of the individual firm; capital budgeting; production analysis; cost-benefit analysis for the public sector.

ECO 306 – THE NATIONAL ECONOMIC ENVIRONMENT IN THEORY AND POLICY (5) (W)
Economic analysis at the national level, including determination of aggregate income and employment, operation of the monetary system, short-term income fluctuations, long-term income growth, public policy toward business, and problems of international trade and finance.

ECO 307 – THEORY OF PRICE (5) (F)
Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics.

ECO 308 – AGGREGATE ECONOMIC THEORY (5) (F,W)
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 income growth.

ECO 310 – ECONOMICS OF THE BUSINESS ENVIRONMENT (5) (F,W,S,SS)
Core course for undergraduate business program. Review and extension of micro and macroeconomic analysis; market system and firm behavior; economic issues; public and private decision making; aggregate theory and policy; problems of the international economy.

ECO 312 – DEVELOPMENT OF ECONOMIC THOUGHT (5)
Evolution of economic theory and doctrine. Contributions to economic thought from ancient times to Alfred Marshall; emphasis on institutional forces shaping the continuum of economic thinking.

ECO 406 – MONEY AND BANKING (5) (S)
Elements of monetary theory; relationships between money, prices, production and employment; factors determining money supply; history and principles of banking with special reference to the United States.
ECO 415 — THE LATIN AMERICAN ECONOMIES (5)  (F,SS)
Survey of economic status and problems of Latin American nations; analysis of economic and social forces at work in Latin American development.

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 429 — MANPOWER PROBLEMS AND PROGRAMS (5)  (W)
Problems of human resource development; examination of programs for training and upgrading of workers; barriers to skill development and job entry; formulation of public policies on human resources.

ECO 455 — LAS ECONOMIAS LATINOAMERICANAS (5)
Aspectos del desarrollo economico de los paises latinoamericanos; enfoque en las fuerzas sociales, institucionales, y del mercado y sus efectos sobre los paises en vías de desarrollo.

ECO 460 — UNDERGRADUATE TUTORIAL (5-10)  (F,W,S,SS)
Supervised readings, individual tutorial, and preparation of report(s). Requires consent of faculty supervisor and department chairman.

ECO 507 — MONETARY THEORY AND POLICY (5)
Relationship of money supply and interest rate to economic stabilization; consideration of federal reserve system, money market, and factors determining money supply and demand; neo-Keynesian, Chicago, and radical policy views. (Recommended preparation, ECO 305 or 307.)

ECO 509 — THEORIES OF ECONOMIC PROGRESS (5)  (W)
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 305 or 307.)

ECO 510 — PROBLEMS OF DEVELOPING ECONOMIES (5)  (S)
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 305 or 307.)
ECO 517 – 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 305 or 307.)

ECO 518 – 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 305 or 307.)

ECO 519 – ECONOMICS OF URBAN AND ENVIRONMENTAL PROBLEMS (5)
Application of economic analysis to urban growth and the urban-regional environment; consideration of public services, transportation, ghetto problems, and urban organization; analysis of environmental protection problems and policies. (Recommended preparation, ECO 305 or 307.)

ECO 525 – PUBLIC CHOICE AND THE PUBLIC FINANCES (5) (S)
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 305 or 307.)

ECO 526 – THE INTERNATIONAL ECONOMY (5) (S)
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 305 or 307.)

ECO 527 – 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 305 or 307.)
ECO 528 — LABOR ECONOMICS (5)  
Economic problems and issues of trade union organization and wage theory; job security, hours, working conditions, labor legislation, unemployment, and discrimination. (Recommended preparation, ECO 305 or 307.)

ECO 530 — INTRODUCTION TO MATHEMATICAL ECONOMICS (5)  
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 305 or 307.)

ECO 531 — INTRODUCTION TO ECONOMETRICS (5)  
Introduction to measurement in economics; numerical evaluation of mathematical models by statistical methods; survey of classical models; scope and method of econometric analysis. (Recommended preparation, ECO 305 or 307.)

ECO 560 — ADVANCED INDIVIDUAL STUDY (5-10)  
Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and department chairman. Open to seniors and graduate students.

ECO 565 — ADVANCED SEMINAR IN ECONOMIC THEORY (5)  
Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students.

ECO/MBA 606 — MANAGERIAL ECONOMICS I  
Basic microeconomic and macroeconomic 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/MBA 656 — MANAGERIAL ECONOMICS II  
(PREREQUISITE ECO/MBA 606) (5)  
Extension of topics covered in ECO/MBA 606. Includes capital budgeting, linear programming, pricing, decision making under uncertainty, recent developments in theory of the firm.

ECO 660 — INDIVIDUAL GRADUATE STUDY (5-10)  
Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of department chairman.
ECO 665 – GRADUATE SEMINAR IN ECONOMIC THEORY (5)
Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

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

Generalized Program of Study for ENGLISH MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses: None

Remarks:
Prospective secondary school teachers should take the Foundations of Education courses (EDU 101 and 245) in the lower division.

Florida International University Generalized Program of Study:

Required Courses:
- English 45 quarter hours
- Electives 45 quarter hours

ENGLISH

ENG 300 – MAJOR LITERARY GENRES (5) (F,W,S,SS)
Individual sections will read and discuss novels or dramas, poetry, essays or such special forms as biographies, folk songs and tales and the like. May be repeated with a change in content. (Variable content and sections)

ENG 302 – IMPROVING COMMUNICATION (5) (F,W)
Practice in effective writing, speaking, reading and listening.

ENG 303 – IMPROVING COMMUNICATION (5) (W,S)
Further practice in effective writing, speaking, reading and listening.
ENG 305 – THE MOVIES (5) (W)
Viewing and discussion of films, with attention to cinematic ways of story-telling, and the popular film as an expression of American cultural values.

ENG 307 – ENGLISH LINGUISTICS (5) (F,W,S)
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 308 – IMAGINATIVE WRITING I (5) (F)
An introductory course in the writing of fiction. Practice in close-reading and revision.

ENG 309 – WRITING NONFICTION (5) (F,S)
Practice in adapting nonfiction writing styles to a variety of audiences and purposes. Some attention will be given to the teaching of composition.

ENG 400 – 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 society, human psychology and history. May be repeated for credit with a change in content.

ENG 405 – SHAKESPEARE (5)
Reading and informal dramatic interpretation of representative comedies, histories, and tragedies.

ENG 406 – MODERN AMERICAN LITERATURE (5)
Study of modern classics by such writers as Hemingway, Faulkner, Stevens, Eliot, and Fitzgerald as well as of the works of very recent novelists and poets.

ENG 407 – HISTORY OF THE ENGLISH LANGUAGE (5)
Study of the development of the grammar and vocabulary represented in works of English literature from the earliest to modern times. Current directions of language change.

ENG 408 – IMAGINATIVE WRITING II (5)
An intermediate course in writing fiction or poetry. Prerequisite: consent of the instructor.

ENG 417 – RHETORIC (5)
Ancient and modern theory and practice in discussing the formal properties of public language.
ENG 499 - SPECIAL TOPICS (5)
Directed study in special projects with the consent of the chairman.

ENG 505 - MAJOR LITERARY FIGURES (5) (F,W,S,SS)
Sections will consider the lifework of individual authors such as Chaucer, Spencer, Milton, Pope, Wordsworth, Browning, Yeats, Eliot, Joyce or others. May be repeated for credit with a change in content. (Variable content and sections)

ENG 506 - LITERARY PERIODS AND MOVEMENTS (5) (F,W,S,SS)
Individual sections will read and discuss literary works in their cultural settings and examine the use of such labels as medieval, renaissance, Augustan, Victorian and terms such as symbolism, romanticism, mannerism, and decadence. May be repeated for credit with a change in content.

ENG 507 - MODERN ENGLISH GRAMMAR (5) (W,S)
Practical study of syntax. Prerequisite: ENG 307 or equivalent.

ENG 508 - IMAGINATIVE WRITING III (5)
An advanced course in the writing of fiction or poetry. Prerequisite: consent of the instructor.

ENG 509 - LITERARY CRITICISM AND SCHOLARSHIP (5)
Techniques and goals of humanistic research, bibliography, and critical commentary.

ENG 510 - STUDIES IN EARLY ENGLISH LANGUAGE (5)
Study of the sounds and syntax of Old and Middle English. Practice in reading such works as Beowulf, King Alfred's prose translations, Piers Plowman and Sir Gawain and the Green Knight.

ENG 599 - SPECIAL TOPICS (5)
Directed study in special projects with the consent of the chairman.

ENG 600 - PRINCIPLES AND PRACTICE OF COLLEGE ENGLISH (5)
Interactive sessions of faculty and prospective teachers on the issues of what should be taught to undergraduates and why.

ENG 605 - INTERDISCIPLINARY APPROACHES TO TOPICS IN COMMUNICATIONS (5)
How the study of language and literature can interact with other disciplines in meeting problems of current interest.

ENG 699 - SPECIAL TOPICS (5)
Directed study in special projects with the permission of the chairman.
Generalized Program of Study
for
ENVIRONMENTAL STUDIES MAJORS

Lower Division Preparation:

Any student with an A.A. or equivalent, or an A.S. in any technological area is adequately prepared to enter the program.

Recommended (but not required) courses in the Lower Division:

College Algebra
Natural History of South Florida
Conservation of Natural Resources

Florida International University Generalized Program of Study:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EVR 301-302-303</td>
<td>Environmental Science: Chemistry, Biology, Physics, Ecology, Environmental Health. For students with no science background.</td>
<td>15</td>
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<tr>
<td>or EVR 401-402-403</td>
<td>Same as EVR 301-302-303, for students with general chemistry and biology background.</td>
<td>15</td>
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<tr>
<td>PSC 304</td>
<td>Environmental Legislation, Policy and Administration</td>
<td>5</td>
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<tr>
<td>EVR 306</td>
<td>Readings in Urban Topics. Selected books and articles will be discussed and analyzed by a team of three or more faculty in a seminar with students.</td>
<td>5</td>
</tr>
<tr>
<td>ECO 519</td>
<td>Economics of Urban and Environmental Problems</td>
<td>5</td>
</tr>
<tr>
<td>SOC---</td>
<td>Social Planning; sociology and considerations of cultural ethics as they concern man’s interaction with the environment.</td>
<td>5</td>
</tr>
<tr>
<td>PSY---</td>
<td>Attitudes, perceptions, moral and ethical implications of environmental problems.</td>
<td>5</td>
</tr>
</tbody>
</table>
ART 305  Survey of visual arts: 5
(special section)  The special section will consider visual pollution and environmental esthetics.

EVR 481-482-483  Internship in an appropriate field situation  5-15

Total Quarter Hours  45-55

The student may then elect his remaining credits in any particular aspect of environmental studies which interests him.

The course study is administered by an interdisciplinary faculty committee within the College of Arts and Sciences. Each student in the program will have a member of this committee whose specialty is closely allied to the student's area of interest as his faculty advisor, who will help structure the student's program.

ENVIRONMENTAL STUDIES

EVR 301 — ENVIRONMENTAL SCIENCE: CHEMISTRY AND ECOLOGY (5)  (F,W,S)  
A course for non-science majors offering fundamental principles of chemistry, physics and biology in an environmental framework. The purpose is to increase scientifically literacy and environmental awareness of non-scientists. No particular preparation required. Recommended for all elementary and non-science secondary school teachers.

EVR 302 — ENVIRONMENTAL SCIENCE: PHYSICS AND TECHNOLOGICAL IMPACT (5)  (F,W,S)  
Fundamental principles of physics and technology in an environmental framework.

EVR 303 — ENVIRONMENTAL SCIENCE: SPECIAL PROBLEMS (5)  (W,S,SS)  
Discussion of some especially significant environmental problems.

EVR 311 — CHEMISTRY, BIOCHEMISTRY, AND PHYSIOLOGICAL CHEMISTRY FOR CONSUMERS (5)  (F,W,S)  
Fundamental chemical principles, structures and biochemistry of compounds with which the consumer deals every day: common household and industrial chemicals, pesticides, detergents, drugs, cleaning agents, fuels and their combustion. Toxicology of some of these chemicals will be discussed. No particular preparation is required for this course. Some economics and consumerism will also be involved in the course.
EVR 312 – CHEMISTRY, BIOCHEMISTRY, AND PHYSIOLOGICAL CHEMISTRY FOR CONSUMERS (5)  (W,S)
Continuation of EVR 311.

EVR 401 – ENVIRONMENTAL SCIENCE I
Similar to EVR 301, but for students with general chemistry and biology background.

EVR 402 – ENVIRONMENTAL SCIENCE II
Similar to EVR 302, for students with general chemistry and biology background.

EVR 403 – ENVIRONMENTAL SCIENCE III
Similar to EVR 303, for students with general chemistry and biology background.

EVR 405 – WATER RESOURCES (5)
A study of water resources of the United States and especially water problems of the South Florida area. Hydrology of surface and ground water, chemical properties of fresh and salt water systems, transfers and diversions, different laws governing water use. A background in general chemistry and biology is recommended.

EVR 421-422 – WATER RESOURCES SEMINAR (5-5)  (W,S)
A seminar 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 431-432 – AIR AND ENERGY SEMINAR (5-5)  (F,W)
Seminar dealing with power and energy production in modern society, fundamental energy relationships of industrial and domestic processes, common air contaminants, and their production, and control relationships to natural resource use. Some background in chemistry and/or physics is recommended.

Generalized Program of Study
for
HISTORY MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, the following recommendations and/or requirements are to be noted.
Required Courses: None

Remarks:
Six (6) hours of Advanced History courses may be counted toward the upper division major.

Florida International University Generalized Program of Study:

Required Courses:
- Introduction to History (HIS 301) 5 quarter hours
- General History Courses 35-40 quarter hours
- Electives 54-45 quarter hours

HISTORY

HIS 301 – INTRODUCTION TO HISTORY (5) (F,S)
Historical assumptions; why people read and write history. 
(Required of all majors)

HIS 305 – TOPICS IN ANCIENT HISTORY (5) (F,W)
Individual sections will examine the politics, literature, arts or other selected topics in the history of Greece, Rome or other ancient civilizations. May be repeated with a change in content.

HIS 306 – TOPICS IN EUROPEAN HISTORY (5) (F,W,S,SS)
Individual sections will examine the economics, politics, sociology, arts, or other selected topics in European civilization. May be repeated with a change in content. (Variable content and sections)

HIS 307 – TOPICS IN ASIAN HISTORY (5) (F,W,S)
Individual sections will examine the economics, politics, sociology, arts or other selected topics in Japanese, Chinese or South Asian civilizations. May be repeated with a change in content.

HIS 308 – TOPICS IN LATIN AMERICAN HISTORY (5) (F,W,S,SS)
Individual sections will examine the economics, politics, sociology, arts or other selected topics in the civilization of Ibero-America. May be repeated with a change in content. (Variable content and sections)

HIS 309 – TOPICS IN AFRICAN HISTORY (5)
Individual sections will examine the economics, politics, culture, arts, races or other selected topics in African civilizations. May be repeated with a change in content.
HIS 315 – TOPICS IN MIDDLE EASTERN HISTORY (5)  
Individual sections will examine the economics, politics, 
religious-cultural conflicts or other selected topics in the Middle 
East. May be repeated with a change in content.

HIS 316 – TOPICS IN U.S. HISTORY (5)  
(F,W)  
Individual sections will examine primarily political, social and 
cultural developments in American history. May be repeated with 
change in content.

HIS 317 – THE WORLD SINCE STALIN, HITLER 
AND ROOSEVELT (5)  
(W,SS)  
Trends in world history since the 1940's: the decay of colonial 
empires, the rise of nationalism, "wars of liberation" and conflict 
between different ideological and political systems.

HIS 405 – INDIVIDUALS AND HISTORY (5)  
Particular "great men" in history and the ways in which they are 
shaped by their times or shape events themselves.

HIS 406 – MEXICO AND THE CARIBBEAN (5)  
(F,S)  
The Indian cultures, the impact of Europe and Africa; the social and 
economic revolutions of the 20th century.

HIS 408 – TOPICS IN INTELLECTUAL HISTORY (5)  
(F,W,S,SS)  
Individual sections will examine the ideas and assumptions behind 
different events, movements and institutions to discover their origins 
and impact upon different cultures and civilizations. (Variable 
content and section)

HIS 415 – ISLAMIC AND BYZANTINE HISTORY (5)  
The rise of Islamic and Byzantine civilizations; their art and society, 
their place in history.

HIS 416 – INTRODUCTION TO URBAN HISTORY (5)  
(F,S)  
The nature and origins of cities and the role of particular cities in 
different civilizations.

HIS 417 – PRE-HISTORY (5)  
Pre-historic societies, including the methods of rediscovering these 
cultures. Some archeological field work may be anticipated.

HIS 418 – POPULAR CULTURE AND HISTORY (5)  
Graffitti, folk tales, folk art and other products of popular culture as 
means of discovering the past.
HIS 419 — RED, WHITE AND BLACK IN AMERICA (5) (W,SS)
Racial and ethnic ideas, institutions and forces in the United States; their impact upon American life and American peoples, and influence upon the world.

HIS 425 — THE UNITED STATES IN THE WORLD (5)
A history of the United States' relations to other nations and peoples in war and peace from the Spanish-American War to Viet Nam.

HIS 426 — TOPICS IN RUSSIAN HISTORY (5)
Individual sections will examine the literature, art, religion, politics or other selected topics in Russian and Soviet history. May be repeated with a change in content.

HIS 427 — TOPICS IN SOCIAL HISTORY (5)
Individual sections will examine social institutions (families, political parties, etc.) and social artifacts (movies, novels, etc.) to discover their significance to different cultures.

HIS 499 — SPECIAL TOPICS (5)
Directed study in special projects with the consent of the student’s advisor.

HIS 505 — HISTORY AS LITERATURE (5)
The monuments of historical prose; why they survive and how they influence our view of the past.

HIS 506 — PHILOSOPHY OF HISTORY (5)
Formal and informal ideas of the world and of history that affect how one sees and records the past.

HIS 507 — CURRENT TRENDS IN HISTORICAL RESEARCH (5) (W)
Recent historical theories and representative works.

HIS 509 — ART AS HISTORY (5)
Individual sections will examine literature, sculpture, architecture, painting, etc., as a means of discovering historical reality.

HIS 515 — EDUCATION IN AMERICAN HISTORY (5) (S)
Formal and informal education in the United States; the politics and theory of transferring knowledge; the changing role of teachers and education in American society.
HIS 516 — URBAN HISTORY (5)
Urban problems and the ways in which various urban cultures have treated them, particularly American cities. Field work may be anticipated.

HIS 518 — ECONOMIC FORCES IN HISTORY (5)
Economic institutions, thought and market forces, and their impact on history.

HIS 519 — TECHNOLOGY AND SCIENCE IN HISTORY (5)
Technological and scientific theories and innovations as causes and effects of historical events and trends in different societies.

HIS 525 — RELIGIONS IN HISTORY (5)
Roles that religious ideas and institutions have played in various cultures in the past.

HIS 599 — SPECIAL TOPICS (5)
Directed study in special projects with the consent of the department.

HIS 605 — HISTORICAL METHODOLOGY (5)
Advanced analysis of individual historians and their historical philosophies.

HIS 606 — SPECIAL TOPICS (5)
Directed study in special projects with the consent of the department.

Generalized Program of Study
for
HUMANITIES MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses: None
Recommended Courses:
- Art
- English
- Foreign Languages
- History
- Philosophy
- Religion
- Drama
- Music

Florida International University Generalized Program of Study:

Required Courses:
Fifteen (15) hours in each of four (4) areas chosen from the following:

- English
- Modern Languages
- Electives

- Fine Arts
- Philosophy
- History

- 30 quarter hours

Generalized Program of Study for MATHEMATICAL SCIENCES

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses:
- Mathematics including Calculus I and II

Recommended Courses:
- Linear Algebra
- Introductory courses in Computer Programming
- Introductory courses in an area of Application of Mathematics

Florida International University Generalized Program of Study:

Major:
An individually planned program consisting of 45 quarter hours. A typical major program would be:
- Algebraic Structures I and II 10
- Mathematical Models and Applications I and II 10
- Probability and Statistics 10
- Numerical Analysis 5
- Electives in Mathematics 10

45
Required Courses Outside Major (if any):
A planned cluster of courses in an area of application of Mathematics of interest to the individual student.* 20

General Electives: 25
90 (quarter hours)

*The purpose of this requirement is to encourage a meaningful concentration of study in one related discipline rather than a superficial sampling of several areas.

MATHEMATICAL SCIENCES

MAS 300 – INTRODUCTION TO COMPUTER PROGRAMMING (2)(F,W,S,SS)
A two-hour credit course providing a basic orientation to using the computer and an introduction to the fundamentals of the FORTRAN language. Programming skill developed through application to problem solving.

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

MAS 305 – THE SIGNIFICANCE OF MATHEMATICS (5) (W,SS)
A course for non-science majors requiring no college mathematics preparation as a pre-requisite. A study of mathematical thought and its applications in our contemporary culture. Topics selected from the following: logical reasoning, the nature of elementary algebra and geometry, number theory, groups, Boolean Algebra, probability and statistics.

MAS 306 – THE HISTORY OF MATHEMATICS (5)
A survey of the development of mathematical ideas from primitive origins to the present. A knowledge of elementary algebra and analytic geometry will be assumed.

MAS 307 – INTRODUCTION TO STATISTICS (5) (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 308 — GEOMETRY (5)  
A study of the basic structure of Euclidean Geometry together with topics from advanced Euclidean Geometry, and non-Euclidean Geometry.

MAS 309 — MODERN STATISTICAL METHODS IN MANAGERIAL SCIENCE (5)  
Probability, distributions, measures of variation, estimation, computer methods in statistics.

MAS 311-312 — INTRODUCTION TO COMPUTERS I-II (5-5)  
A course in basic computer organization, programming languages, algorithms and iterative methods, data management, control monitor procedures, fundamental concepts of information storage and retrieval.

MAS 313 — ADVANCED PROGRAMMING LANGUAGES (5)  
In-depth training in the use of higher-level programming languages such as FORTRAN, BASIC, APL, ALGOL, AND COBOL. Emphasis on problem solving use of the languages through batch and interactive facilities. Prereq. MAS 312 or lower division EDP major.

MAS 314 — COMPUTER SYSTEMS (5)  
Survey of the hardware and software components of modern day digital computer systems. Study of the characteristics of various kinds of computer mainframes and peripherals and methods for evaluation of their performance. Survey of modes of processing including time-sharing, real time, batch and remote batch. Prereq. MAS 313.

MAS 321-322 — MATHEMATICS FOR THE MANAGEMENT, BIOLOGICAL, AND SOCIAL SCIENCES I-II (5-5)  
An introduction to the basic notions of probability, calculus and statistics that are used to study problems in the management and social sciences. Specific topics include: basic probability; random variables on finite sample spaces; differentiation; integration; continuous random variables; estimation.

MAS 325 — DIFFERENTIAL EQUATIONS (5)  
An introduction to differential equations and their applications based on a knowledge of the calculus. Topics to include initial value problems of the first order, numerical solutions, systems of differential equations, linear differential equations of the second order, phase plane analysis, series solutions. Prereq: MAS 302.
MAS 331-332 – PROBABILITY AND STATISTICS I-II (5 - 5) (331-F; 332-W)
Basic probability and random variables; density and distribution functions, expectations, Stieltjes Integral, characteristic functions, special distributions; estimation and decision theory; linear models and design; Markov Chains; Stochastic processes. Prereq: 302.

MAS 345 – APPLIED LINEAR ALGEBRA (5) (F,SS)
An introduction to the topics in linear algebra most often used in applications. Topics include matrices and their applications, simultaneous linear equations and elementary operations, linear dependence, vector spaces, rank and inverses, numerical solutions of simultaneous linear equations, eigenvalues and eigenvectors, iterative methods for calculating eigenvalues. Prereq: MAS 302 or 322.

MAS 351 – MULTIVARIABLE CALCULUS (5) (W,SS)
A modern treatment of the multivariable calculus. Topics include the differential calculus of real valued functions (directional and partial derivatives, mean value theorem, implicit functions, the gradient, Taylor’s theorem, maxima and minima, Lagrange Multipliers); differential calculus of vector valued functions (differentiability, chain rule, implicit functions, inverse functions); integration (multiple integrals, iterative integrals, surface integrals, line integrals, divergence theorem, Green’s and Stokes’ Theorem). Prereq: MAS 302, MAS 345.

MAS 361-362 – MATHEMATICAL MODELS AND APPLICATIONS I-II (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 for growth processes, and ecological models. Evaluation of models and computer simulation will also be discussed. Prereq: MAS 302, MAS 345.

MAS 365 – NUMERICAL ANALYSIS (5) (S,SS)
Basic ideas and techniques of numerical analysis. Topics include finite differences, interpolation, solution of equations, numerical integration and differentiation, application. This course will make extensive laboratory use of the computer facility. Prereq: MAS 345.

MAS 395 – INDEPENDENT STUDY (3-5) (F,W,S,SS)
Individual conferences, assigned reading, reports on independent investigations.
MAS 398 – SPECIAL TOPICS (3-5)  (F,W,S,SS)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 405 – MATHEMATICAL LOGIC (5)
A study of formal logical systems and their applications to the foundations of mathematics. Topics to be selected from the following: definition of mathematical proofs; set theory; analysis formalized with the predicate calculus; theorems of Godel and Church; recursive function theory, and idealized digital computers.

MAS 415 – SYSTEMS PROGRAMMING (5)  (S,SS)
Study of computer operating systems with emphasis on systems generation, spooling techniques, data management, resource management, and approaches to support of the various modes of computing. Prereq: MAS 314.

MAS 416 – DATA COMMUNICATIONS (5)  (S,SS)

MAS 425 – MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES (5)  (W,SS)
A study of those topics in mathematics most often used in applications in the physical sciences. Topics to be discussed include the following: solutions to ordinary differential equations about singular points; Fourier Analysis; Sturm-Liouville Problems; Bessel Functions; Legendre Polynomials; boundary value problems; Laplaces equations; applications to problems in the physical sciences. Prerequisite: MAS 325.

MAS 465 – TOPOLOGY
An introductory course in topology requiring a prerequisite knowledge of the calculus. Topics to be discussed will be selected from the following: topological spaces; metric spaces, continuity, completeness, compactness, separation axioms, products spaces, subspaces, convergence, and homotopy theory. Prereq: MAS 302.
MAS 471-472 – MATHEMATICAL TECHNIQUES OF OPERATIONS RESEARCH I-II (5-5)
An introduction to those topics in mathematics associated with studies in operations research. Topics to be discussed include those to be selected from the following: linear programming, the simplex method, duality theory, queuing theory, computer simulation, network analysis, inventory theory, decision theory. Prereq: MAS 345 and MAS 322 or MAS 332.

MAS 495 – INDEPENDENT STUDY (3-5) (F,W,S,SS)
Individual conferences, assigned readings, reports on independent investigations.

MAS 498 – SPECIAL TOPICS (3-5) (F,W,S,SS)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 515 – DATA STRUCTURES (5)
Basic concepts of data, data representation and storage, records, files, file organization methods, and data handling techniques. Prereq: MAS 313, MAS 332 and MAS 345.

MAS 516 – INFORMATION SYSTEMS ANALYSIS AND DESIGN (5)
Study of techniques of systems creation from analysis of the problem through design, programming, testing, implementation, and post-installation review. Emphasis on integrated information systems built on systems designed to support the decision-making process. Examination of documentation techniques. Prereq: MAS 314 and MAS 515.

MAS 551-552-553 – REAL AND COMPLEX ANALYSIS I-II-III (5-5-5)
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. Prereq: MAS 351.

MAS 565 – ADVANCED NUMERICAL ANALYSIS (5)
This course presents a mathematical analysis of standard numerical methods. It is based on an elementary numerical analysis course and a knowledge of differential equations. Topics to be discussed include: approximation and error analysis, numerical solution of ordinary and partial differential equations, mathematical analysis of iterative processes. Prereq: MAS 325 and MAS 365.
MAS 570-571 – ALGEBRAIC STRUCTURES I-II (5-5) (570-W; 571-S)
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. Prereq: MAS 345.

MAS 575 – OPTIMIZATION AND MATHEMATICAL PROGRAMMING (5)
A course in the mathematics involved in optimization problems and procedures. Prerequisite knowledge required is that of the calculus, linear algebra, probability and statistics, and an acquaintance with the concept of mathematical models. Topics to be discussed include: non-linear programming, Lagrange Multipliers, Kuhn-Tucker Theorem, multi-stage systems, and dynamic programming. Prereq: MAS 362.

MAS 580 – NUMBER THEORY (5)
This course takes up topics in number theory. It assumes a knowledge of the basic concepts 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. Prereq: MAS 571.

MAS 595 – INDEPENDENT STUDY (3-5) (F,W,S,SS)
Individual conferences, assigned reading, reports on independent investigations.

MAS 598 – SPECIAL TOPICS (3-5) (F,W,S,SS)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 611-612 – DISCRETE ALGEBRAIC STRUCTURES I, II (5-5) (611-F;612-W)
A study of discrete algebraic structures and their relationships to modern applications of mathematics. Topics selected from graphs, finite state machines, monoids, lattices, finite fields.

MAS 615 – ITERATION AND APPROXIMATION (5) (S)
An intensive study of the techniques and ideas of mathematics used in iterative techniques to find approximate solutions. Prereq: MAS 612.
Generalized Program of Study
for
MODERN LANGUAGE MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses:
Four (4) semesters of Elementary and Intermediate Foreign Language.

Florida International University Generalized Program of Study:

Required Courses:
- Foreign Language 45 quarter hours*
- Electives 45 quarter hours*

Remarks:

Completion of at least three (3) quarters of a second foreign language will be recommended.

*Thirty (30) quarter hours for students enrolled in Teacher Education Program.

MODERN LANGUAGES

FRE 301 – BEGINNING LANGUAGE INSTRUCTION (5) (F)
Training in the acquisition and application of basic language skills. Modified audio-lingual method.

FRE 302 – BEGINNING LANGUAGE INSTRUCTION (5) (W)
Continuation of 301. Emphasis on comprehension and identification of structure. Introduction to reading and vocabulary development.

SPA 301 – BEGINNING LANGUAGE INSTRUCTION (5) (F)
Training in the acquisition and application of basic language skills. Modified audio-lingual method.

SPA 302 – BEGINNING LANGUAGE INSTRUCTION (5) (W)
Continuation of 301. Emphasis on comprehension and identification of structure. Introduction to reading and vocabulary development.
GER 301-303 – BEGINNING AND INTERMEDIATE GERMAN (5)  
To be offered contingent upon demand.

CHI 301-303 – BEGINNING AND INTERMEDIATE CHINESE (5)  
To be offered contingent upon demand.

FRE 303 – INTERMEDIATE LANGUAGE INSTRUCTION (5)  
Taught in target language. Emphasis on communication and language refinement. Readings from contemporary cultural fields.

SPA 303 – INTERMEDIATE LANGUAGE INSTRUCTION (5)  
Taught in target language. Emphasis on communication and language refinement. Readings from contemporary cultural fields.

MOL 305 – CREATIVE WRITING/TRANSLATION (5)  
Self-training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.  
(To be offered in French, German and/or Spanish contingent upon demand)

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.  
(To be offered in French, German and/or Spanish contingent upon demand)

MOL 307 – PHONETICS (5)  
The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity.  
(In French, German or Spanish)

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 311 – INTENSIVE LANGUAGE INSTRUCTION (5)  
Concentrated language instruction for the acquisition of speaking skills. Audio-lingual/programmed instruction.  
(To be offered in French and Spanish contingent upon demand)
MOL 312 – INTENSIVE LANGUAGE INSTRUCTION (5) (W)
Concentrated language instruction for the acquisition of reading/comprehension skills. (To be offered in German and Russian contingent upon demand)

MOL 325 – INTERMEDIATE SYNTAX/COMPOSITION (5) (F)
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. (French, German, Spanish)

MOL 326 – ADVANCED SYNTAX/COMPOSITION (5) (W,SS)
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. (French, German, Spanish)

MOL 327 – COMMUNICATION ARTS (5) (S)
Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language. (French, German, Spanish)

MOL 335 – HISTORY OF THE LANGUAGE (5)
The internal and external history of language development. Examination of model texts from key periods of evolution. (To be offered in French, German and Spanish contingent upon demand)

MOL 336 – DIALECTOLOGY (5)
Definition and analysis. Problem-solving in dialectical classification. (In French, German and Spanish contingent upon demand)

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

MOL 355 – INTELLECTUAL HISTORY (5) (SS)
The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations. (In French, German and Spanish contingent upon demand)

MOL 356 – LITERATURE OF REFORM (5)
The consciousness of change in verbal art. (In French, German and Spanish contingent upon demand)
MOL 357 – LITERATURE OF REPRESSION (5)  
The consciousness of constraints, their adoption and/or rejection in verbal art. (In French, German and Spanish contingent upon demand)

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. (To be offered in target language contingent upon demand)

MOL 365 – LITERATURE IN TRANSLATION (5)  
Masterpieces of world literature in English. Comparative use of the original 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. (Not offered in 1972-73, but individual cases will be evaluated for 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 story, poetry), or the study of 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. (To be offered in the target language upon demand)
MOL 408 – LITERATURE INTO FILM (5)
Approaches to the visual conversion/recreation of international texts. Tentative formulation of criteria for appreciation of the text as film.

MOL 435 – BIBLIOGRAPHY AND METHODS OF RESEARCH (5) (SS)
Survey of the alleged tools, resources and limitations of research and scholarship in the humanities. Emphasis on non-English sources and practices. Formulation of desirable objectives.

MOL 436 – LITERARY THEORY AND PRACTICE (5) (W)
The possibility and potential of criticism.

MOL 438 – PROBLEMS IN READING AND INTERPRETATION (5) (S)
The identification and appreciation of techniques for sensitive reading and discussion of literary texts. (French, German, Spanish)

MOL 439 – TECHNIQUES AND CRITERIA OF COMPARATIVE LITERATURE (5) (S)
The interdisciplinary and para-disciplinary assumptions of comparatist studies. Formulation of working techniques from various approaches.

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

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

MOL 476 – CONTRASTIVE MORPHOLOGY (5)
For students proficient in more than one foreign language. Content and emphasis to be determined by students and teacher.

MOL 477 – ADVANCED DIALECTOLOGY (5)
Computer programming of dialects. Analysis of taped speakers and primary sources.

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

MOL 497 – SPECIAL TOPICS (5) (S)
Independent readings, research, or project.
MOL 498 – INDEPENDENT STUDY (5)
Project, field experience, readings, or research.

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

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

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

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

Generalized Program of Study
for
MUSIC MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division course
work necessary to enter this upper division major, note the following
recommendations and/or requirements.

Required Courses: None

Recommended Courses:
Theory 16 semester hours
Applied Music 16 semester hours

Remarks:
Students without an Associate of Arts in Music or lacking proficiency in
type, 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.
Florida International University Generalized Program of Study:

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory</td>
<td>15 quarter</td>
</tr>
<tr>
<td>Applied Music</td>
<td>24 quarter</td>
</tr>
<tr>
<td>History</td>
<td>15 quarter</td>
</tr>
<tr>
<td>Music Electives</td>
<td>6 quarter</td>
</tr>
<tr>
<td>Electives</td>
<td>30 quarter</td>
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</tbody>
</table>

Remarks:
Major in Music will present a senior recital.

MUSIC

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

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

MUS 307 — EVOLUTION OF JAZZ (5)  
The influx of Africa and Latin America on the development and styles of jazz music and its various exponents such as soul, blues, rock, etc.

MUS 315 — MUSIC HISTORY SURVEY (5)  
A technical study of music from antiquity to 1850. Lectures on historical styles will be supplemented with recordings and analysis.

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

MUS 325 — SURVEY OF BASIC MUSIC (5)  
Designed for students to develop their skills in or to review basic theory, harmony, sightsinging and ear training.

MUS 326 — COUNTERPOINT (5)  
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) (S)
With a background of counterpoint, the student will study the analysis of phrases, 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 375 – MUSIC SKILLS (5) (F,W,S,SS)
The study of singing, music reading, rhythmic activities, listening and playing instruments as it relates to the child.

MUS 385-585 – DIRECTED STUDY (5-5) (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 425 – ORCHESTRATION (5)
With a background of basic theory, the student will explore the techniques of writing and arranging for instruments in performing organizations and choral groups.

MUS 435 – INSTRUMENTAL CONDUCTING (2)
With a background in basic theory and having performed in organizations, the student will develop a knowledge of baton technique, score reading and interpretation.

MUS 436 – CHORAL CONDUCTING (2)
With a background in basic theory and having performed in organizations, the student will develop techniques of group conducting including madrigal, glee, choir, etc. A survey of choral literature will be included.

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

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

MUP 305-505 – UNIVERSITY SINGERS (Variable) (F,W,S,SS)
A chorus performing repertory primarily from the great choral works. Permission of conductor.

MUP 307-507 – CHAMBER SINGERS (Variable) (F,W,S)
A small ensemble of selected mixed voices. Previous choral experience and permission of conductor.
MUP 315-515 – ORCHESTRA (Variable)
An instrumental ensemble performing works from the symphonic repertory. Previous experience and permission of conductor.

MUP 317-517 – WIND ENSEMBLE (Variable)
A group of wind and percussion instrumentalists. Permission of conductor.

MUP 325-525 – STUDIO JAZZ (Variable)
An ensemble to provide creative professional level experience in the contemporary popular idiom.

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

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

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

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

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

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

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

Generalized Program of Study for
PHILOSOPHY, RELIGION, AND
PHILOSOPHY-RELIGION MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.
Required Courses: None

Florida International University Generalized Program of Study:

Required Courses:
Philosophy/Religion Core Courses 20 quarter hours
Philosophy/Religion Related Courses 15 quarter hours
Another Academic Discipline 20 quarter hours

Remarks:
Students are encouraged to pursue dual major study concentrations, i.e., another major in addition to philosophy or religion or philosophy/religion.

PHILOSOPHY AND RELIGION

PHI 300 – INTRODUCTION TO PHILOSOPHICAL THINKING (5) (F)
Students desiring an introduction into the nature and scope of philosophical assumptions and inquiry will find this course helpful. After examining various philosophical views about reality, man, reasoning, truth, freedom and values, students will be aided in the development of informed philosophical views about problems and issues relevant to their own lives.

PHI 301 – LOGIC AND PROBLEM SOLVING (5) (SS)
This introductory course in logical thinking and argumentation will treat both practical and theoretical approaches to understanding human communications and solving problems. Students will be introduced to inductive and deductive logic, fallacies, and the role of logic in scientific explanation and popular expression.

PHI 302 – KNOWLEDGE AND CERTITUDE (5) (S)
The viewpoints of various philosophers and schools of thought toward types of knowledge and certitude are the main emphases of this introductory course.

PHI 303 – WHAT IS REALITY? (5) (S)
The views of various philosophers and schools of thought toward the ultimate nature of man and his world are the main emphases of this introductory course. In the context of problems relevant to the needs of students, such topics as existence, freedom, mind, and person will be discussed.
PHI 304 – CONTEMPORARY 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 lifestyle will be discussed in the context of several contemporary problems and issues.

PHI 310 – MAJOR PHILOSOPHIES IN THE AMERICAS (5)

The perspectives of contemporary philosophies in North America, the Caribbean and South America, and their influence upon cultures comprise the focus of this course. Of special interest will be the contributions of those philosophies and philosophers upon current and emerging issues such as the political institutions, technology, personal and social identity, world view and the common good.

PHI 311 – ANCIENT PHILOSOPHIES (5)

The basic concerns and teachings of representative philosophers and schools of thought in cultural settings down to the Medieval Period, and linkages to their past and future, are the emphases of 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 Medieval and early Renaissance Periods, and linkages to their past and future, are emphasized in this course.

PHI 313 – EARLY MODERN PHILOSOPHIES (5)

The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the last Renaissance and Reformation Periods, and linkages to their past and future, are emphasized in this course.

PHI 314 – SCHOOLS OF PHILOSOPHICAL THOUGHT (5)

After a brief review of introductory philosophical notions and methods, several of the more significant philosophical movements of the East and West will be considered. Special attention will be given to topics and issues relevant to the academic needs of the student.

PHI 325 – HUMANISTIC AND SCIENTIFIC PERSPECTIVES (5)

After a review of several basic philosophical notions, the assumptions and methodologies and consequences of the humanities and the social and natural sciences will be discussed. Topics will be selected from current issues.
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 327 – PHILOSOPHIES OF HISTORY (5)  
After exploring the definitions, dimensions and interrelations of philosophy and history, students will examine major philosophies of history. Discussions about the social responsibility of the historical narrative and the philosophical assumptions of historiographies will be provided.

PHI 328 – PHILOSOPHIES OF SCIENCE (5)  
After exploring the definitions, dimensions and interrelations of philosophy and the natural and social sciences, representative philosophies of science will be discussed. Of special interest will be the philosophical assumptions of scientific theories, social consequences of theories, objectivity, prediction, certitude.

PHI 410 – MODERN PHILOSOPHIES (5)  
The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the 18th and 19th centuries, 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 426 – PHILOSOPHIES OF SOCIETY (5)  
This introductory course will define basic socio-political concepts and explore social and political theories and ideologies emerging in North America, the Caribbean and South America. Special emphasis will be given to the philosophical dimensions of current social and political events.

PHI 427 – CHANGING LAWS AND LEGAL SYSTEMS (5)  
After a review of basic socio-political concepts, social and political theories and ideologies, students will examine change and conflict notions and models in the context of selected political and legal systems.
PHI 428 – VALUE THEORIES (5) (W)
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 490 – INDEPENDENT RESEARCH (5)
Topics will be selected to meet the academic needs of the individual student.

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

PHR 326 – PHILOSOPHIES OF RELIGION (5) (W)
This introductory course will examine the grounds for belief and religion along with such basic questions as: Is there immortality? Is faith rational? Why evil? Does religion enhance or inhibit mental health? How are philosophy and theology related? These questions will be examined from the perspectives of the social sciences and philosophical theology.

PHR 327 – BASIC DILEMMAS IN FAITH AND REASON (5)
The nature of certitude based on religious faith or empirical reasoning will be examined in this course. Emphasis will be given to their respective assumptions, tenets and methodologies. The sociology of religious and empirical knowledge will be examined.

PHR 329 – ETHICAL ISSUES IN BUSINESS (5)
After a review of basic questions regarding ethical knowledge, norms and systems, students will consider the ethical dimensions of current problems and issues facing the business manager or worker: corporate ethics, personal responsibility, product quality and performance, production, marketing, advertising, management and ethics, and economics.

PHR 330 – ETHICAL ISSUES IN POLITICS (5) (F)
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 health practitioner: rights to life and death, professional ethical code, personal responsibility. Broader social problems will be treated, such as population growth, eugenics, euthanasia and socialized medicine.
PHR 331 — ETHICAL ISSUES IN HEALTH PRACTICE (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 health practitioner: rights to life and death, professional ethical code, personal responsibility. Broader social problems will be treated, such as population growth, eugenics, euthanasia and socialized medicine.

PHR 400 — HUMAN SEXUALITY (5)
The nature and cultural aspects of human sexuality will be examined from the perspectives of the social sciences, biological and physical sciences, and the humanities. Special consideration will be given to traditional and emerging cultural norms about sexual behavior in the context of current problems, issues and movements.

PHR 401 — HUMAN IDENTITY (5)
This interdisciplinary course will explore the philosophical, religious and psychological 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 — HUMANISTIC PERSPECTIVES OF ENVIRONMENTAL SYSTEMS (5)
Environmental systems will be explored from the perspectives of the sciences and the humanities. Of special interest will be the effects of technological and organizational systems upon the quality of human existence, and the ethics of system decisions.

PHR 435 — PEACE AND SOCIETY (5)
Students will survey several cogent international questions and issues: socio-political forces underlying peace/unrest, impact of social protest upon the ethical and political values of various cultures, the philosophy and efficacy of non-violence, the economic and social costs of national defense/war/peace. Major Eastern and Western peace documents will be examined.

PHR 436 — CIVIL RIGHTS AND SOCIETY (5)
Students will survey current domestic civil rights issues and problems: liberation movements, violent vs. non-violent methods of conflict resolution, economic and social and personal costs of civil rights issues. Major Eastern and Western documents treating these questions will be examined.

PHR 437 — THEORIES AND ISSUES IN THE ARTS (5)
The philosophical assumptions and consequences of current and emerging issues and trends in art, music and drama will be explored.
PHR 490 – INDEPENDENT RESEARCH (5)
Topics will be selected to meet the academic needs of the individual student.

REL 300 – VARIETIES OF RELIGIOUS EXPERIENCE (5)  (S)
Students will be introduced to the nature and varieties of religious phenomena and experience with special emphasis upon current trends in religious awareness and expression: mysticism, witchcraft, Zen koan, pentecostalism, revival, drug culture, secularism, Jesus Freaks, Hare Krishna, voodoo, spiritualism; religious liturgies and meetings.

REL 302 – AMERICAN DENOMINATIONS, SECTS AND CULTS (5)
The history and similarities of religious denominations, sects and cults in the Americas will be discussed in this course. Of special interest will be the assessment of emerging changes in organized religions, and the discussion of ecumenical efforts.

REL 326 – CONTEMPORARY JUDAIC-CHRISTIAN RELIGIOUS THOUGHT (5)  (S)
This course will examine the religious tenets and historical events that have influenced the social and political ideologies of contemporary Judaism and Christianity. Special consideration will be given to issues such as war and peace, political and social change, and religious ecumenism.

REL 327 – CONTEMPORARY CARIBBEAN RELIGIOUS THOUGHT (5)  (SS)
This interdisciplinary course will examine the historical roots of contemporary religious belief systems and practices in the island nations of the Caribbean. Special emphasis will be given to the anthropological, sociological and political dimensions of religious ideologies in those developing nations.

REL 328 – NORTH AMERICAN RELIGIOUS THOUGHT (5)
The theological trends of this century will be traced through the major schools of theological thought and their chief thinkers in North America.

REL 329 – YOGA (5)
The transcendental understanding of ultimate truths through the ascetical practices of Yoga will be explored in this course.

REL 330 – HINDUISM (5)
This course will examine cultural ramifications of Hindu belief and practices. Attention will be focused upon the reading of Hindu sacred literature and practices such as chants, yoga and transcendental meditation.
REL 336 — BUDDHISM (5)
The effort of Buddhism to strip illusion from religion will be traced through its sacred literature and practices. Of particular interest will be the relation of the Buddhist unitive stance toward nature and life to current ecological and peace issues.

REL 337 — ISLAM AND ISLAMIC MYSTICISM (5)
The beliefs and practices of Islam will be examined in this course with special emphasis given to their influence upon Muslim social and political ideologies.

REL 401 — NEW OPTIONS IN MYSTICAL AND RELIGIOUS EXPERIENCE (5)
After a brief review of the varieties of contemporary religious experience, students will examine new models and modes of religious theory and experience in the context of emerging cultural patterns in the Americas and the Caribbean.

REL 402 — INSTITUTIONAL RELIGION (5) (SS)
This interdisciplinary course examines the sociological development of organized religions, organizational patterns, doctrine and moral codes. Current questions regarding the conflict of individual behaviors and institutional norms, institutional survival, and social relevance will be considered.

REL 405 — INTERPRETATION OF BIBLICAL LITERATURE (5)
This course will consider the major schools of biblical interpretation and compare Christian sacred writings to selected Eastern literature. Christian and Judaic oral traditions will be compared with those of Florida Indians, and the Blacks and Indians of the Caribbean area.

REL 425 — CONSEQUENCES OF THE PURITAN EXPERIENCE (5)
After considering the social-political-religious-philosophical sources and premises of Puritanism, students will examine the establishment of Puritanism in North and South Americas and its current influence upon modern mores and laws.

REL 427 — RELIGIOUS PLURALISM AND NATIONAL UNITY (5)
This interdisciplinary course will examine the compatibility of variant belief systems and religious institutions with social and political systems from the viewpoints of philosophy, political science, sociology and history. Attention will be focused upon conflicts over conscientious objection, population, compulsory education, church-related education, and other current and emerging issues.
REL 490 — INDEPENDENT RESEARCH (5)
Topics will be selected to meet the academic needs of the individual student.

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

Generalized Program of Study for POLITICAL SCIENCE MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses:
American Government 3 semester hours

Recommended Courses:
State and Local Government
International Relations
Economics
Sociology/Anthropology
Ecology
Psychology
Introduction to Statistics
Foreign Language
History

Florida International University Generalized Program of Study:

Required Courses:
Government and Political Science 35 quarter hours
Other courses within the Division of Social Science 25 quarter hours
Electives 30 quarter hours
POLITICAL SCIENCE

POS 301 – FOUNDATIONS OF POLITICAL SCIENCE (5) (F,W,S,SS)
Examines the basic concepts in political science, including an introduction to the scope of the discipline and representative methods of acquiring knowledge of politics. Enables the student to develop analytical capabilities.

POS 305 – CONTEMPORARY POLITICAL THEORY (5) (F,S)
An overview of the major conceptual frameworks used by political scientists 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.

POS 306 – THE LEGISLATIVE PROCESS (5) (W)
Surveys the main problems and procedures of the legislative process, including the law-making powers of state and federal legislative bodies. Concentrates on those groups and organizations which affect this process. Helps the student to understand the laws and rules under which he lives.

POS 307 – THE JUDICIAL PROCESS (5) (F,S,SS)
Examines the relationship between politics and judicial structure and process. Emphasizes the judicial system as a particular kind of policy making system and evaluates the strengths and weaknesses of the judicial system from a policy-making perspective. Helps the student to understand the main problems and procedures of the judicial process.

POS 308 – POLITICAL PARTIES AND INTEREST GROUPS (5) (S)
The structure and behavior of the major political parties of modern political systems. Attention is given to the ecological relationship between modern political parties and economic, military, ethnic, and regional interest groups. Helps the student to understand those groups which are presented in the governmental arena.

POS 309 – POLITICAL VIOLENCE AND REVOLUTION (5) (F)
An examination of political violence and revolution in coping 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.
POS 315 – DYNAMICS OF INTERNATIONAL POLITICS (5) (F)
An examination of the nation-state system. Attention is given to the use of force in international affairs, as well as those organizations, such as the United Nations, which have an international dimension. The course should aid the student in understanding the complexities of world politics.

POS 316 – INTERNATIONAL ORGANIZATION AND ADMINISTRATION (5)
An analysis of the factors and problems involved in administering change on a transnational basis. Stress is placed on the difficulty of applying legal norms to the international arena. Attention is given to those organizations, especially the United Nations, which are entrusted with implementing international agreements. Enables the student to understand the difficulties involved in maintaining world peace.

POS 317 – GOVERNMENT AND POLITICS OF WESTERN EUROPE (5) (F)
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.

POS 318 – GOVERNMENT AND POLITICS OF SOUTH AMERICA (5) (F)
A cross-national discussion of the political systems and cultures of the Latin American nations, with special emphasis on the larger countries. Attention is given to the role of the military and to the problem of violence in the area. Designed to give the student an overview of the political life of the nations with whom we share this hemisphere.

POS 319 – GOVERNMENT AND POLITICS OF THE CARIBBEAN (5) (W)
Studies the political systems of the major British, French, Dutch, and Spanish areas in the Caribbean basin. Although attention is focused on such factors as political party systems, forms of government, and regional politics, emphasis is placed on the developmental problems confronted by small democracies in a non-industrial setting. Discusses the paradoxes between modernity and tradition throughout the developing Caribbean and the
relationship between politics, economics, 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.

POS 325 – GOVERNMENT AND POLITICS OF CHINA (5) (F)
An intensive examination of the major political institutions of mainland China. 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.

POS 326 – INTERNATIONAL LAW (5) (W)
The law of nations, including the laws of war. Includes a discussion of the development of legal norms applicable to the international arena from both Western and non-Western perspectives. Examines the emerging body of transnational law in social, economic, and technological areas of international relations. Enables the student to appreciate the problems involved in structuring conflict in international relations.

POS 327 – POLITICS OF THE DEVELOPING AREAS (5) (S)
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.

POS 328 – FOREIGN POLICY FORMATION (5) (F)
An analysis of how foreign policy decisions are made, including the inputs deriving from societal and cultural characteristics. Attention is given to the decision making process in a number of countries. Gives the student insights into decisions which may affect his life.

POS 329 – STATE AND LOCAL GOVERNMENT (5) (F)
An examination of public policy making within the context of state-wide politics, state-federal, and state-local relationships. The examination includes both official and unofficial institutions which interact within a state and local government framework. Enables the student to understand how policy is made in state and local government.
POS 335 – GOVERNMENT AND POLITICS
OF THE UNITED STATES (5)
An examination of the origin and development, structure and
operation of the government of the United States, with an emphasis
on the characteristics and political consequences of federalism.
Allows the student to have a better understanding of the political
system in which he lives.

POS 336 – POLITICAL COMMUNICATION AND PUBLIC OPINION (5) (W)
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.

POS 337 – CONSTITUTIONAL LAW (5) (W,SS)
An examination of the principles of American constitution law,
including a discussion of judicial review, the federal system, liberties
protected by the constitution against national and state action, and
decision of the Supreme Court of the United States and their
relationship to contemporary political, and social issues. Enables the
student, particularly the pre-law student, to understand the structure
and operation of the constitutional system in the United States.

POS 338 – TOPICS IN ENVIRONMENTAL POLICY (5) (F)
An intensive examination of selected topics dealing with
environmental policy. 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 339 – SIMULATION LABORATORY (5) (W,S)
Playing and modifying political games and simulations within an
experimental laboratory situation. Students will attempt to design
scenarios for specific political and administrative situations.

POS 415 – 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.
POS 416 – GOVERNMENT AND POLITICS OF MEXICO (5)
An intensive examination of one of the most important Latin American nations. Attention is given to the political impact of the Mexican revolution and to the behavior of the dominant political party. Includes a section on Mexican history and culture. Allows the student to study life in a single, unique political system and thus to better understand his own.

POS 417 – METROPOLITAN GOVERNMENT (5) (S)
An examination of the structural and operational problems of metropolitan governments. Emphasis is placed on Dade County, although a comparative perspective will be developed by drawing upon the metropolitan experiences of other areas. The structure of community power is summarized and critically examined and different strategies of community politics are illustrated in a metropolitan context. Allows the student to understand the complexities of metropolitan government.

POS 418 – GOVERNMENT OF NEW TOWNS AND SUBURBIA (5) (S)
An examination of the growing organizational model of new towns and their relationships to suburban experience. A discussion of political culture in new towns and suburbia. Provides an opportunity for the student to conceptualize alternative patterns of organization in urban areas.

POS 425 – TOPICS IN POLITICAL PROCESSES AND BEHAVIOR (5) (SS)
An intensive examination of selected topics dealing with the political process. 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 426 – TOPICS IN POLITICAL ANALYSIS AND METHODOLOGY (5) (SS)
An intensive examination of selected topics dealing with political analysis and methodology. 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 427 – TOPICS IN POLITICAL THEORY (5) (W,S,SS)
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 particular interest to him.
POS 428 — POLITICAL DYNAMICS OF PUBLIC ADMINISTRATION (5) (W)
An introduction to the political environment of administrative decision making in public agencies. Special emphasis is placed upon the politics of budgeting, personnel management, organizational requirements, and policy making.

POS 429 — ISSUES IN THE ADMINISTRATION OF PUBLIC POLICY (5) (S)
An analysis of the policy consequences of major issues facing political executives and administrators, including planning for the year 2000, bringing government closer to the people, the pathologies of bureaucratization, technology assessment, quantification aids in decision making, needs for policy advice, and experiments in organizational forms.

POS 435 — AMERICAN FOREIGN AND MILITARY POLICY (5) (W)
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.

POS 436 — INTERNATIONAL CONFLICT AND MODES OF SOLUTION (5) (S)
An examination of the way in which international crises are developed, including a consideration of their historical, geographical, economic, ideological, and strategic bases. Emphasis is placed on strategies and modes of resolving national conflicts. Enables the student to understand the dynamics of conflict on an international basis.

POS 438 — LATIN AMERICAN INTERNATIONAL RELATIONS (5) (S)
Studies both Latin America’s relations with other areas of the world as well as relationships between the various nations of that continent. Emphasis is given to the historical development of the United States-Latin American relations on the political, economic, and cultural levels. The student should develop an understanding of how his country has affected Latin America and how the Latin Americans view his society.
POS 439 – 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 and change in this important area and to compare these processes with events in his own country.

POS 446 – TOPICS IN URBAN SYSTEMS (5)  
An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is placed on how urban problems are identified and proposed 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.

POS 447 – THEORY AND ANALYSIS OF PUBLIC POLICY (5)  
An intensive examination of the theory and practice of formulating, legitimizing, administering, and evaluating public policy. Includes a discussion of the role of administrators, legislators, courts, interest groups, and political parties in these processes. Gives the student an analytical basis for understanding and participating in the making of public policy in a variety of policy areas.

POS 448 – EDUCATIONAL POLICY IN THE UNITED STATES (5)  
An intensive examination of the theory and practice of formulating, legitimizing, administering, and evaluating educational policy on local, state and federal levels. Includes a discussion of the roles of administrators, legislators, courts, interest groups, political parties, and public and private agencies in the policy making process regarding education. Enables the student to understand how policy is made in area of vital concern to him.

POS 516 – COMPARATIVE PUBLIC POLICY (5)  
An examination of selected policy and governmental systems for purposes of comparative study and analysis. Emphasis is placed upon a determination of similarities, differences, and general patterns and universals among different policy making systems on a cross-cultural basis. Enables the student to make a comparative examination of public policy making.
POS 517 – POLITICS OF HEALTH PLANNING (5)
An intensive examination of the theory and practice of health planning. Includes a discussion of the roles of administrators, legislators, courts, interest groups, and public and private agencies in the formulation of health policy. Emphasis is placed on the role of comprehensive health planning councils in the health policy area. Enables the student to understand how policies are made in an important policy area of interest to all citizens.

POS 519 – POLICY FOR URBAN DELIVERY SYSTEMS (5) (SS)
An intensive examination of selected policy areas in an urban context. The subject will vary, depending upon the desires of both the student and the faculty. Allows the student to choose topics of particular interest to him.

POS 525 – TOPICS IN PUBLIC POLICY (5) (SS)
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 526 – COMPARATIVE BUREAUCRACY (5)
An examination of those complex organizations (governments, political parties, corporations, the military, and educational organizations) which form an integral part of the political process. Special emphasis is placed on the role of the individual in large bureaucratic structures. The student should better understand those complex organizations with which he interacts on a daily basis.

POS 527 – PUBLIC POLICY INTERNSHIP
(Variable credits) (F,W,S,SS)
An opportunity for the senior student to participate in a governmental or public agency 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 a student and faculty advisor.

POS 545 – TOPICS IN COMPARATIVE POLITICS (5) (SS)
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 555 – INTERNATIONAL DEVELOPMENT (5)  
Examines the processes of modernization and development on a global basis. Includes an examination of the role of the "developed" countries in the modernization efforts of Latin America, Asia, and Africa. Discusses the role of international organizations, such as the United Nation's development agencies, in the modernization and development processes. Enables the student to appreciate the enormous tasks confronting the majority of humanity.

POS 556 – TOPICS IN INTERNATIONAL POLITICS (5)  
An intensive examination of selected topics with an international dimension. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him.

POS 558 – GOVERNMENT AND POLITICS OF FLORIDA (5)  
An examination of the principles of the constitution of the State of Florida, including a survey of the political and social institutions which have developed in Florida. Includes a discussion of Florida political culture, ecology, group development and activity, power structures, and reform movements. The characteristics of Florida's political problems and proposed solutions are evaluated. Enables the student to understand the political dynamics of the state in which he lives.

POS 605 – SEMINAR IN COMPARATIVE POLITICS (5)  

POS 615 – SEMINAR IN PUBLIC POLICY (5)  

POS 617 – SEMINAR IN INTERNATIONAL POLITICS (5)  

POS 618 – SEMINAR IN URBAN SYSTEMS (5)  

POS 619 – SEMINAR IN PUBLIC POLICY AND HEALTH PLANNING (5)  

POS 625 – INTERNSHIP IN PUBLIC POLICY (Variable)
Generalized Program of Study
for
PRE-MEDICAL, PRE-VETERINARY AND
PRE-DENTAL PROGRAMS
(BIOLOGY AND CHEMISTRY MAJORS)

Lower Division Requirements:

The student completing an A.A. degree should have included the following:

- College Algebra with Trigonometry (MTH 110-111 or MTH 112)
- General Chemistry (CHM 151-152)
- General Biology (BIO 211-212) or one semester each of Zoology and Botany (BIO 181 and BIO 182)

The following are also recommended but may be deferred to the Upper Division:

- Organic Chemistry (one year) (CHM 215-216)
- Analytic Geometry and Calculus I (MTH 230 and 240)
- Physics (one year) (PHY 201-202 or PHY 205-6-7)

The student in a program leading to an A.S. degree should, if possible, substitute the courses in his program: e.g. Chemistry 101-102-103 instead of Chemistry 105-106, Biology 211-212 instead of (or in addition to) Biology 100-101-102. If this is not done, there are adequate review courses available at Florida International University, but the student may have to accumulate more than 90 quarter-hours in order to fulfill the necessary requirements. The following programs include many of the prerequisites for the Pre-medical, Pre-veterinary and Pre-dental program at Florida International University:

A. A. Programs
- Pre-Bachelor of Science
- Pre-Bachelor of Arts (with courses listed above)
- Pre-Medical Science
- Pre-Medical Technology
- Pre-Ocean Engineering
- Pre-Nursing
- Pre-Pharmacy
- Pre-Physical Therapy

A. S. Programs
- Civil Engineering Technology
- Electronics Technology
- Environmental Control Technology
- Marine Science Technology
- Medical Laboratory Technology
- Respiratory Therapy Technology
Upper Division Requirements:
The following courses are required if recommended courses listed above have not been completed:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Organic Chemistry (CHE 301-302)</td>
<td>14</td>
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<tr>
<td>Physics with Calculus (PHY 301-302)</td>
<td>10</td>
</tr>
<tr>
<td>Calculus I (MAS 301)</td>
<td>5</td>
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</table>

The following additional courses are required:

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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus II (MAS 302)</td>
<td>5</td>
</tr>
<tr>
<td>Equilibrium and Properties of Solutions (CHE 322)</td>
<td>5</td>
</tr>
<tr>
<td>Embryology</td>
<td>5</td>
</tr>
<tr>
<td>Population Biology (For pre-veterinary only)</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Required Quarter-Hour Credits</strong></td>
<td><strong>20-49</strong></td>
</tr>
</tbody>
</table>

Students completing this curriculum should prepare themselves for the Medical College Admissions Test (MCAT), and are encouraged to major in Chemistry or Biology. Inquiries about the program or about adequate preparation for it should be addressed to the Chairman, Department of Physical Sciences, Florida International University.

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Generalized Program of Study for PSYCHOLOGY MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

**Required Courses:**
- General Introduction of Psychology

**Recommended Courses:**
- Introduction to Statistics
- Calculus
- Physics
- Biology
- Philosophy
- Sociology
Florida International University Generalized Program of Study:

Required Courses:
Psychology courses to include the following: 45-60 quarter hours
- Basic Experimental Psychology
- Overview of Psychology (Senior year)
- One Other Laboratory Course

The student shall take one course in at least two of the following specializations and shall be expected to study any one area in depth:
- Experimental, Community
- Developmental, Industrial,
- Social, Personality

Required Courses Outside Major:
Mathematics 307 Introduction to Statistics
At least one upper division course in two of the following departments:
- Economics
- Government/Political Science
- Sociology/Anthropology

Remarks:

AB 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.

Students who have not completed the statistics requirement prior to admission will be required to complete MAS 307-Introduction to Statistics or its equivalent during their first or second quarter of enrollment at Florida International, and before taking any laboratory courses in psychology.

Nonpsychology majors may enroll in any psychology course provided that they have successfully completed an introductory course in psychology or its equivalent, and meet the specific course requirements.

PSYCHOLOGY

PSY 300 — INTRODUCTORY PSYCHOLOGY (5)  (F,SS)
Psychological principles underlying basic processes such as perceiving, learning, thinking, motivation 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 prerequisite for majors who have not had an introductory course in psychology.

**PSY 301 – BASIC EXPERIMENTAL PSYCHOLOGY (7) (W,S)**
Lectures and laboratory exercises illustrative of concepts and techniques employed in the execution of human psychological experiments. Students who have not had an introductory course in statistics should first successfully complete MAS 307 or its equivalent.

**PSY 302 – INTRODUCTORY DIFFERENTIAL PSYCHOLOGY (5) (W)**
Principles and methods underlying the construction and evaluation of psychological tests. The course will focus on psychometric theories, procedures and behavioral differences.

**PSY 303 – APPLIED SOCIAL PSYCHOLOGY (5) (W)**
A study of the application of the principles and methods of social psychology to behavior of substantive importance in the natural setting. Emphasis in this course will be on user-applicable information about behavior, and in particular interpersonal behavior applications.

**PSY 305 – INTRODUCTORY EDUCATIONAL PSYCHOLOGY (5) (F,SS)**
An introduction to the ways in which the principles of psychology apply to educational practices, considering aspects of the basic processes such as development, learning, individual differences and adjustment, with special reference to the problems of teacher effectiveness and teacher-student interaction. This course is designed for students who have not had a prior course in Educational Psychology, and will not count towards the major in psychology.

**PSY 306 – INTRODUCTORY SOCIAL PSYCHOLOGY (5) (F)**
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 307 – HUMAN GROWTH AND DEVELOPMENT (5) (F)**
An introductory study of the development of personality, intelligence, and motivation from childhood to adulthood, emphasis will be placed on development of cognitive systems through social learning. This course will not count towards the major in psychology.
PSY 308 — HUMAN MOTIVATION (5) (F)
Introduces several perspectives from learning theory, perception, and personality theory to explore why and how people move through their physical and social environment.

PSY 401 — EXPERIMENTAL SOCIAL PSYCHOLOGY (5)
Analysis of the theories and research methods employed by social psychologists.

PSY 402 — LECTURES AND LABORATORY IN EXPERIMENTAL SOCIAL PSYCHOLOGY (7) (S)
Lectures and laboratory/field exercises illustrative of the concepts and research techniques used in social psychology, including experiences with such topics as small groups, social stratification and mass phenomenon.

PSY 403 — INTERPERSONAL BEHAVIOR (5) (S)
An examination of research methods and findings on the study of human interpersonal interaction in face-to-face situations. This course is a sequel to PSY 303 “Applied Social Psychology.” Students wishing to enroll in this course will be expected to have completed successfully an introductory course in social or applied social psychology, or its equivalent.

PSY 404 — DIFFERENTIAL PSYCHOLOGY LABORATORY (7) (F)
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 405 — 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 406 — INTRODUCTORY DEVELOPMENTAL PSYCHOLOGY (5) (F,S)
An introductory survey of human development from birth to adolescence. Particular attention will be devoted to intellectual, personality, and social development. Consideration will be given to both theoretical and empirical perspectives.
PSY 411 – LEARNING AND REMEMBERING (5) (F)
A study of research and theoretical contributions to the understanding of human learning and remembering, including topics such as verbal acquisition, retention and decay, conditioning. Relevance of principles derived from behavioral animal research may be adduced. Basic theoretical conflicts will be considered in the light of experimental findings.

PSY 412 – HUMAN LEARNING AND REMEMBERING LECTURES AND LABORATORY (7)
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 Basic Experimental Psychology Laboratory should first complete successfully PSY 301.

PSY 415 – INDUSTRIAL PSYCHOLOGY (5) (F,SS)
Introduction to the applications of psychological principles to the problems of industry and business. Topics include personnel selection, training, morale, organizational behavior, and employee-employer interactions.

PSY 417 – GROUP DYNAMICS (5) (F,W)
An introduction to the study of groups, in terms of organization, problem solving, decision-making and the roles of individuals in groups.

PSY 418 – ORGANIZATIONAL PSYCHOLOGY (5)
Survey of the theoretical and methodological issues in the study of organizational structures and environments, focusing on social processes as constraints on organizational functioning.

PSY 421 – PERSONALITY THEORY (5) (F,S)
A general survey of various theories of personality. Consideration will be given to traditional and contemporary approaches to personality development.

PSY 422 – ABNORMAL PSYCHOLOGY (5) (W)
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 425 – COMMUNITY PSYCHOLOGY (5)  
Historical examination of professional work in mental health and its relation to social change. Consideration will be given to recent developments in the psychologist’s study of communities and their behavior.

PSY 455 – PSYCHOLOGY OF THE DISADVANTAGED (5)  
This course will examine the psychological aspects of the concept of the “disadvantaged” in terms of contemporary society. Data from studies of so-called disadvantaged groups will be examined in terms of the types of groups, cultural, ethnic and social environments.

PSY 456 – SOCIAL PSYCHOLOGY OF RACE RELATIONS (5)  
Comparative study of the attitudes and practices of racial and ethnic groups towards each other in a variety of cultural and national settings.

PSY 485 – INDEPENDENT READINGS IN PSYCHOLOGY (Var) (F,W,S,SS)  
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 486 – SPECIAL TOPICS IN PSYCHOLOGY (Variable) (F,W,S,SS)  
Limited to qualified students who have faculty sponsorship of their plan of study. Proposed work should relate to a particular topic, the study of which is not represented among regular courses in the department. Students must prepare a written report of their work.

PSY 500 – OVERVIEW OF PSYCHOLOGY (5)  
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 501 – PSYCHOLOGY OF LANGUAGE (5)  
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 502 – LANGUAGE DEVELOPMENT (5)  
An examination of how children acquire language, based on experimental findings from contemporary linguistic, psycholinguistic and behavioral theory.
PSY 503 – PSYCHOLOGY OF SCIENTIFIC CONTROVERSIES (5) (F)
The “anatomy” of controversies is analyzed with respect to their essential psychological qualities and role in the process of scientific development. This evaluation is considered in terms of the relationship between orthodoxy and the social nature of scientific progress. Some knowledge of science and scientific methods is desirable for this course.

PSY 505 – ADVANCED EDUCATIONAL PSYCHOLOGY (5) (SS)
An in-depth study of the application of psychological concepts, research and principles to problems of instruction, learning, classroom management and teaching strategies. This course is designed for advanced students in the School of Education, and others who have had at least one prior course in educational psychology. It will not count toward the major in Psychology.

PSY 507 – COGNITIVE PSYCHOLOGY (5) (S)
A course stressing the cognitive approach to experience and behavior. Special emphasis is placed on theory and research relating to organizing processes and operations central to the acquisition of knowledge.

PSY 510 – 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 enrolling in this course should have completed successfully at least an introductory course in social psychology or its equivalent.

PSY 525 – PSYCHOLOGY OF ADOLESCENCE (5)
An examination of the biological, psychological and sociological perspectives contributing to the changes from childhood to adolescence, and adolescence to young adulthood. Students should have completed successfully a course in developmental psychology or its equivalent before enrolling in this course.

PSY 526 – INFANCY AND CHILDHOOD (5) (W)
A study of the basic theories and findings concerning cognitive, social and personality development. Students enrolling in this course should first complete successfully an introductory course in developmental psychology or its equivalent.
PSY 527 – DEVELOPMENTAL PSYCHOLOGY LABORATORY (7) (F,S)
This laboratory course will focus on cognitive and social-cognitive development within a Piagetian perspective. Course content will be derived from readings, seminar discussions, laboratory and field experiences, testing and observing young children. Students wishing to enroll in this course should have completed at least one introductory course in developmental psychology and preferably had additional advanced work in psychology. Enrollment will be limited, and the instructor's permission is required.

PSY 528 – PSYCHOLOGICAL FACTORS IN IDENTIFICATION AND ALIENATION IN CHILDHOOD AND ADOLESCENCE (5)
An intensive study of the issues and research dealing with the psychological, cultural and sociological factors leading to individual and group identification and alienation during childhood and adolescence. Successful completion of an introductory course in developmental psychology or its equivalent is necessary prior to enrollment in this course.

PSY 530 – ENVIRONMENTAL PSYCHOLOGY (5) (W)
An introduction to the man-environment interaction, including psychological, sociological and physical aspects.

PSY 535 – DEVELOPMENT OF PERCEPTUAL AND MOTOR SKILLS (5)
An introductory survey of the acquisition of perceptual and perceptual-motor skills as a function of growth and psycho-social determinants. This course will not count towards the major in psychology.

PSY 536 – PSYCHOLOGY OF ADULTHOOD AND AGING (5)
An examination of the transition from adolescence to adulthood youth to middle age, and middle age to old age. Focus will be placed on changing roles in family, work and societal settings, as applied to personality and other aspects of psychological function. Students enrolling in this course should ordinarily have completed successfully a course in developmental psychology or its equivalent.

PSY 545 – RESEARCH METHODS IN ORGANIZATIONAL PSYCHOLOGY (5)
Evaluation and examination of research methods used to study organizations and their behavior with particular attention to decision making and risk behavior.
PSY 546 – PSYCHOLOGICAL THEORIES IN BUSINESS AND MANAGEMENT (5)
A study of the applications of psychological theory and research to the problems of business and management. This course will not count towards the major in psychology.

PSY 557 – 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 580 – BIO-PSYCHOLOGY: BIOLOGICAL CONTRIBUTIONS TO BEHAVIOR (5)
A study of some of the more important biological correlates of behavior in such psychological phenomena as sensing and perceiving, learning and emotive responses. The variety of phenomena and wealth of material necessitates a choice of areas at different times. Topics to be covered will be announced at the beginning of the academic year. May be taken twice for credit toward the major. Open only to majors in the senior year and graduate students.

PSY 587 – INDEPENDENT RESEARCH IN PSYCHOLOGY (Var) (F,W,S,SS)
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 605 – SPECIAL PROBLEMS IN PSYCHOLOGY (Variable)
Students and faculty will select a particular topic of interest for intense study. Content will vary from quarter to quarter. A major paper on the topic is required for successful completion of the course. Open to advanced seniors and graduates. May be taken twice for credit toward the major.
PSY 606 – SPECIAL TOPICS – EDUCATIONAL PSYCHOLOGY (Variable)
An intensive analysis of a particular topic in educational psychology. Students will have to have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the School of Education.

PSY 615 – PRINCIPLES OF SURVEY RESEARCH TECHNIQUES (5)
A critical view of the theory and methods of large scale sampling, measurement, and analysis of beliefs, attitudes, and other psychological variables.

PHYSICS

PHY 301 – PHYSICS WITH CALCULUS I (5) (F,S)
Fundamentals of physics, classical mechanics, Newton’s Laws, conservation of energy and momentum. Derivations throughout will make use of the very simple principles of differential and integral calculus. (Lecture)

PHY 302 – PHYSICS WITH CALCULUS II (7) (W,S)
Fundamentals of electricity and magnetism, electrical gravitational and magnetic fields and their interactions, AC and DC circuits. (Lecture and laboratory)

PHY 303 – PHYSICS WITH CALCULUS III (7) (F,S)
Introduction to modern physics, geometric and physical optics, nuclear physics. (Lecture and laboratory)

PHY 311-312 – ELECTRICITY AND MAGNETISM,
FIELDS AND WAVES (5-5) (F,W-W,S)
Field theory and field propagation, Maxwell’s equations and Poisson’s equation, the Laplacian, comparison of gravitational electric, magnetic fields, electro-magnetic theory of radiation, some quantum electrodynamics. A strong background in calculus is recommended. (Lecture and laboratory)

PHY 315 – ASTRONOMY AND ASTROPHYSICS (5)
The solar system, the earth as an astronomical body, laws of planetary motion, the stellar universe, satellite motion. Some general physics background is helpful.

PHY 316 – ELECTRONICS (5)
Simple circuits, solid state devices, characteristics of resonant circuits, instrumentation, various applications of electronic design. General physics and some calculus are helpful. (Laboratory only)
PHY 405 – OPTICS AND STIMULATED EMISSIONS (5)
Geometric optics: reflection, refraction, behavior of rays at interfaces, lenses, optical instruments; physical optics; interference and diffraction, properties of waves, coherent and non-coherent emission, lasers. The student must have a good background in general physics. (Lecture and laboratory)

PHY 406 – DYNAMICS (5)
Dynamic models of particle motion, dynamics of rigid bodies, kinetic dynamics of rigid bodies, kinetic models, the Hamiltonian and generalized coordinates, resonant systems. A good background in calculus is essential. (Lecture)

PHY 415 – SOLID STATE PHYSICS (5)
Properties and structure crystals, crystal defects, properties of metals, semi-conductors, superconductors. A good background in general physics and general chemistry is necessary.

Generalized Program of Study for INTERDISCIPLINARY PROGRAM IN SOCIAL SCIENCE

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses: None

Recommended Courses:
- Anthropology
- Economics
- Political Science
- Psychology
- Sociology
- Urban/Environmental Studies
- Mathematics
- Philosophy
- Statistics
Florida International University Generalized Program of Study:

Required Courses:

Social Science Courses 45-60 quarter hours
This must include at least
one upper division course from
the following departments:
  Economics
  Political Science and Government
  Psychology
  Sociology/Anthropology
Non-Social Science Courses
Mathematics 307 — Introduction to Statistics 5 quarter hours

Remarks:

In addition to the above requirements, students are required to elect the
senior year interdisciplinary interdepartmental seminar on the integration of
the social sciences and complete an independent project carried out under the
supervision of a faculty committee and present on oral defense of their work.

Students who have not completed the statistics requirement prior to
admission will be required to complete MAS 307 Introduction to Statistics
or its equivalent during the first or second quarter of their enrollment
at Florida International.

SOCIAL SCIENCES

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 the social sciences.

Generalized Program of Study
  for
  SOCIOLOGY MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division course
work necessary to enter this upper division major, note the following
recommendations and/or requirements.
Required Courses:
  Introduction to Sociology

Recommended Courses:
  Other Sociology courses
  Other Social Science courses (Political Science, Economics, Psychology, Anthropology, History, Geography)
  Other Arts and Sciences courses, especially English, Mathematics, and Philosophy

Florida International University Generalized Program of Study:

Required:
  65 quarter hours total in Social Sciences Division
  25 quarter hours electives

45 quarter hours minimum in departmental offerings to be divided as follows:

Tool Courses:
  Methods 5 quarter hours
  Theory 5 quarter hours
  Statistics (Math 307) 5 quarter hours

Special Content Courses:
  20 quarter hours chosen from electives: at least 2 courses at 400 level or above.

Social Problems:
  10 quarter hours chosen from electives: at least 1 course at 400 level or above.

45 quarter hours, electives divided as follows:

Social Sciences:
  20 quarter hours in courses from Psychology, Economics, Political Science, Anthropology.

Arts and Sciences 25 quarter hours chosen from any area with faculty advisor's approval

Other Schools Electives as approved by faculty advisor

Field Work Experience
  Students will be expected to work outside the formal classroom structure under direct faculty supervision and to complete and defend an independent research project.
NOTE: Anthropology majors will consult with a faculty advisor for a special program of study. The absence of a listed program of study does not mean a major is not possible. Please consult the Department Chairman for further information.

Special programs of study are available for the following interest areas:

Urban Studies; Conflict and Resolution; Control and Deviancy; Interpersonal Relations; Man in Society; Comparative Studies.

**SOCIOLGY**

**SOC 300 – SOCIOLOGY FOR THE NON-MAJOR (5)** *(F,W,S)*

Introduction to the field of sociology with particular emphasis on scope and limitations. Basic but major divisions of the discipline will be introduced. Vocabulary, conceptualizations, research approaches, and vocational opportunities will be reviewed. The relationship of theory and empirical study will be stressed.

**SOC 301 – RESEARCH METHODS AND DESIGN (5)** *(W)*

Introductory course on research methods and review of varied designs basic to methodological study. Laboratory work is involved and students will develop and implement basic research designs in field experimentation.

**SOC 302 – SOCIAL THEORY (5)** *(W)*

Introduction to the theoretical foundations of sociological study. The course covers the historical development of social theories and their application to current study.

**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 in 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 for social theory is evaluated.

**SOC 313 – COLLECTIVE BEHAVIOR (5)** *(S)*

The study of human behavior as found in relatively unstructured forms such as crowds, riots, revivals, public opinion, social movements, and fads. The interplay of such behavior and the rise of new norms and values 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 casualty 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 DEVIANCE (DEVIANT BEHAVIOR) (5)  
The study of behavior that counters the culturally accepted norms or regularities. The social implications of deviancy are reviewed and theoretical formulations regarding deviant behavior are analyzed.

SOC 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 – DEMOGRAPHY/POPULATION (INTRODUCTION) (5)  
An introduction to the study of population or more formally demography. 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 361 – 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 conditions. Current studies on social inter-relationships and physical environments are introduced.
SOC 362 – SOCIAL INSTITUTIONS/ORGANIZATION (5)  (W)
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
An introduction to an intensive study of the kinship relationship of man known as the family. The family is distinguished from other social units and behavior variations of this special unit are analyzed and associated with special functions. Contemporary manifestations of the family and the dynamic changes indicated are considered.

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 amenable to remedy, and an inventory of the knowledge and skills available.

SOC 411-412-413-414-415 – COMMUNITY SOCIOLOGY COURSES  (F,W,S)
Special courses dealing with community programs such as Model Cities, voluntary organizations, United Fund, inner city schools, public service agencies. Faculty will come from community agencies, and course work will focus on local problems.

SOC 401 – METHODOLOGY AND STATISTICS (5)  (S)
An advanced course in statistical procedures utilizing varied research designs. Laboratory sessions involving computer time included.

SOC 441 – COMMUNITY ORGANIZATION (5)
An intensive study of how communities are organized, 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 correlates to the systems studied.

SOC 443 – SOCIAL CHANGE (5)  (F,W)
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 444 – STUDIES IN COMPARATIVE SOCIOLOGY (5)**
A cross cultural review of sociological studies with particular emphasis on the methodological techniques involved and the conclusions reached. This course for students pursuing an international studies program may relate well to the special interests in such a program.

**SOC 451 – URBAN SOCIOLOGY (5) (F,S)**
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 452 – RURAL SOCIOLOGY (5)**
The study of agrarian society or the pre-urban or pre-city society. Distinctive factors associated with such social life are identified, and particular attention is given to defining indicators associated with rural society.

**SOC 461 – SOCIAL STRATIFICATION (MOBILITY) (5) (W)**
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. Some attention is given to mobility and factors associated with upward or downward moves.

**SOC 462 – COMPLEX ORGANIZATIONS (FORMAL) (5) (W)**
The study of variations in organizational structures and functions and a review of their origins. An analysis of how they both affect and are influenced by their members’ behaviors. Bureaucracy is given special attention.

**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) (S)**
A problem oriented 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) (W, SS)
The study of social groups identified by racial or ethnic characteristics. Particular emphasis is given to their role in society, especially that society of which they are a part and the interactive process 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 women in society, role origins and their development in contemporary society. Particular attention is given to how such behaviors became normalized and the rapidity with which they change.

SOC 473 – HEALTH AND WELFARE DELIVERY SYSTEMS (5) (S)
A review of the varied systems servicing society’s health and welfare needs. Attention is given to the institutional origins of such systems and their propensity for change and modification. Studies reflecting evaluative considerations for such systems are reviewed.

SOC 571 – MAN, SOCIETY AND TECHNOLOGY
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 581 – INDUSTRIAL SOCIOLOGY (5) (W)
Concentrated study of industrialization and the sociological theory involved. Manpower, unemployment, apprentice programs, classificatory schemes are subject matter studied.

SOC 582 – SOCIOLOGY OF EDUCATION (5)
An analysis of education as a social process and the interrelationship of educational systems and society. The study of education as a socialization process, the social structure of education, and the role played as an agent in social change are emphasized.

SOC 583 – 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 584 – POLITICAL SOCIOLOGY
(GOVERNMENT AS A SOCIAL SYSTEM) (5)
The study of political institutions, an analysis of their structure and function, and their inter-relationship with political participation, ideology, and mass movements.

SOC 585 – SOCIOLOGY OF MEDICINE (5)
The social organization of medical institutions and the social factors associated with incidence of physical/mental illness and its treatment. Opportunity available for students to pursue specialized interests related to public needs and medical services.

SOC 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
(MENTAL HEALTH) (5)
A concentrated study of mental illness with particular emphasis on definitional conceptualizations and the relationship of such to incidence data. Includes study of the social factors on the etiology or mental disorders and the epidemiology of such illnesses. Family effects of mental illness discovery and treatment are assessed and mental health programs and their effectiveness are reviewed.

SOC 588 – 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 589 – CONFLICT RESOLUTION: PARTICULAR ATTENTION TO 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, political and economic factors. Methods of social cost analysis are discussed.
Generalized Program of Study
for
THEATRE MAJORS

Lower Division Preparation:
As a part of the 90 quarter hours (60 semester hours) of lower division course work necessary to enter this upper division major, note the following recommendations and/or requirements.

Required Courses: None

Recommended Courses:
- Introduction to Drama 3 semester hours
- Stagecraft 3-6 semester hours
- Acting 3-6 semester hours
- Production 6 semester hours

Florida International University Generalized Program of Study:

Required Courses:
- Literature in Theatre 10 quarter hours
- Theatre (Major Area) 20 quarter hours
- Theatre 30 quarter hours
- Electives 30 quarter hours

THEATRE

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

THE 315 — ACTING (5)  
With a fundamental knowledge of stage nomenclature, vocal and physical performance skills, audition and rehearsal techniques, the student will focus on developing a character within a particular acting style. Extensive study and practice in scenes from period plays. (May be repeated)

THE 325 — DIRECTING (5)  
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 scenes for performance. (May be repeated)

THE 355 — STAGECRAFT (5)  
A lecture-laboratory course covering the basic elements of scenery construction, painting, rigging and stage properties.

THE 365 — THEATRE DESIGN (5)  
Fundamentals of design for the theatre. Included are methods of analysis and research, technical drawing and rendering.

THE 366 — STAGE LIGHTING (5)  
The study of elementary electricity, lights and circuits; basic techniques of designing and executing lighting for the stage.

THE 367 — STAGE MAKEUP (5)  
Fundamentals of straight and character makeup. The application of principles governing line, color, light and shade to makeup. Practical experience through production participation.

THE 385 — PERFORMANCE & PRODUCTION (1-5)  
Supervised work in actual university, community or professional theatre productions on an internship basis. Credit will vary with amount of time and responsibility involved. (May be repeated)

DAN 515 — DANCE (5)  
With some basic stage movement experience, the student will do movement studies to develop impulses to rhythm and melody patterns. (May be repeated)
THE 515 — ACTING (5) (F,W,SS)
With a thorough knowledge of all aspects of the actor's craft and a highly motivated background of performance experience, the actor will concentrate on refinement of ensemble playing techniques in a total performance situation which will be presented for an audience. (May be repeated)

THE 525 — DIRECTING (5) (F,W,SS)
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)

THE 555 — STAGECRAFT (5) (W)
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 565 — THEATRE DESIGN (5) (W)
With a knowledge of the fundamentals of theatre design, the student will survey historical styles and work with advanced directing students to design and execute scenery for a play.

THE 568 — STAGE COSTUMING (5)
A survey of historic dress. Study of basic techniques of designing, planning and executing costumes for the stage.

THE 575 — THEATRE MANAGEMENT (5) (SS)
Basic studies in methods of audience promotion and service, i.e., publicity, box office and house management.

THE 585 — PERFORMANCE AND PRODUCTION (1-5) (F,W,S,SS)
Supervised work in actual university community or professional theatre production on an internship basis. Credit will vary with amount of time and responsibility involved. (May be repeated)

THE 595 — RESEARCH (1-5) (F,W,S,SS)
Supervised individual investigation of special research projects. Credit will vary with the nature and scope of the project. (May be repeated)
School of Business and Organizational Sciences
Generalized Program of Study for Majors in

ACCOUNTING
FINANCE
INSURANCE
INTERNATIONAL MANAGEMENT
MANAGEMENT INFORMATION
SYSTEMS

MANAGEMENT (Personnel)
MANAGEMENT (Production)
MARKETING
PUBLIC ADMINISTRATION
REAL ESTATE
TRANSPORTATION
UNSTRUCTURED

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter these upper division majors, note the following recommendations and/or course requirements.

Required Courses:
- Accounting: 10 quarter (6 semester) hours
- Economics: 10 quarter (6 semester) hours
- College Algebra: 5 quarter (3 semester) hours
- Statistics: 5 quarter (3 semester) hours
- General Education requirements

Florida International University Generalized Program of Study:

1. PRE-CORE:

Entering students who have not completed the basic courses in Accounting (6 semester hours), Economics (6 semester hours), and/or College Algebra must complete the appropriate courses at Florida International referred to as the Pre-Core. The Pre-Core consists of:

- ECO 301: Man, Society and Economics 5 credits
- MAS 309: Modern Statistical Methods in Managerial Science 5 credits
- ACC 300: Pre-Core Accounting 5 credits

2. CORE (45 quarter hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUA 301</td>
<td>Financial Management</td>
<td>5</td>
</tr>
<tr>
<td>BUA 302</td>
<td>Operations Management and Analysis</td>
<td>5</td>
</tr>
<tr>
<td>BUA 303</td>
<td>Marketing Management</td>
<td>5</td>
</tr>
<tr>
<td>BUA 305</td>
<td>Quantitative Methods for Administration</td>
<td>5</td>
</tr>
<tr>
<td>BUA 306*</td>
<td>Management Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>BUA 307</td>
<td>Accounting for Planning and Control</td>
<td>5</td>
</tr>
<tr>
<td>BUA 308*</td>
<td>Decision Theory</td>
<td>5</td>
</tr>
<tr>
<td>BUA 309</td>
<td>Organization and Management</td>
<td>5</td>
</tr>
</tbody>
</table>
BUA 315**  External Environment of Organizations  5
ECO 310  Economics of the Business Environment  5
BUA 316  Organizations and Society  5

*Students, with counseling, will take either BUA 306 or BUA 308.
**Experimental — May, through counseling, be taken as a substitute for
the ECO 310-BUA 316 sequence.

3. Successful completion of an additional 45 quarter hours. Twenty of the
45 hours (4 courses) are required courses within the major. The remaining
25 hours (5 courses) may be selected, with counseling, from the business
offerings or from any area outside the School of Business and
Organizational Sciences. For Accounting Majors, there are 25 required
hours (5 courses) and 20 elective hours (4 courses). All courses in the
major must be at the 400 level or higher.

4. Summary of Degree Requirements: Core, 45 quarter hours; Major, 20
quarter hours (Accounting and Management, 25 quarter hours); Electives,
25 quarter hours (Accounting and Management, 20 quarter hours).

5. Ninety (90) quarter hours at the upper level are required for the Bachelor
of Business Administration degree.

THE CORE

BUA 300 — COURSE COMPLETION (1-5)  (W,S)
Student who receives a grade of NC in a course offered in the School
should, after consultation with the appropriate faculty member,
register for the number of hours required to complete the course.
Hours earned in BUA 300 do not count toward graduation
requirements.

BUA 301 — FINANCIAL MANAGEMENT (5)  (F,W,S)
The financial functions of obtaining capital, managing assets, and
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)  (F,W,S)
The theory and applications of management techniques for the
planning, analysis, and control of operational systems in
manufacturing and services industries.

BUA 303 — MARKETING MANAGEMENT (5)  (F,W,S)
A descriptive and analytical approach to the performance of
marketing. Elements of the marketing mix are identified with special
concern directed to the nature and impact of environmental
constraints on marketing decision making.
BUA 305 – QUANTITATIVE METHODS FOR ADMINISTRATION (5) (F,W,S)
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.

BUA 306 – MANAGEMENT INFORMATION SYSTEMS (5) (F,W,S)
A study of the design of systems that collect, process, and disseminate the information required by managers, at various levels of the organizations for executing the various functions of management.

BUA 307 – ACCOUNTING FOR PLANNING AND CONTROL (5) (F,W,S)
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 308 – DECISION THEORY (5) (W,S)
An exposition of basic decision theory under certainty, uncertainty, and risk. Topics to be discussed are: goals’ formulation and weighting, optimization, sensitivity analysis, forecasting, decision trees, and simple models such as linear programming.

BUA 309 – ORGANIZATION AND MANAGEMENT (5) (F,W,S)
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 315 – EXTERNAL ENVIRONMENT OF ORGANIZATIONS (5,5) (F,W,S)
Awareness and understanding of elements in the external environment which impinge on organizational decision making. Emphasis is directed toward the economic, legal-political, social-cultural, and technological environments, their interrelationships, and their impact on policy determination.

BUA 316 – ORGANIZATIONS AND SOCIETY (5) (W,S)
The social, legal, political, and cultural framework within which organizations operate.

BUA 495 – INDUSTRY PROJECT (5)
Individually supervised projects conducted in real organizations. Topics may include any phase of management. Special emphasis will be placed on the decision making process and on the application of the various management and business theories and tools.
BUA 496 – 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 the senior year.

BUA 497 – SPECIAL TOPICS IN MANAGEMENT (1-5)
Advanced study in various fields of management. Topics will vary from year to year and will be announced at the beginning of each quarter. Prerequisite: Senior standing.

ECO 310 – ECONOMICS OF THE BUSINESS ENVIRONMENT (5) (F,W,S)
Review and extension of micro and macroeconomic analysis; market system and firm behavior; economic issues; public and private decision making; aggregate theory and policy; problems of the international economy.

MAS 309 – MODERN STATISTICAL METHODS IN MANAGERIAL SCIENCE (5) (F,W,S)
Probability, distributions, measures of variation, estimation, computer methods in statistics.

ACCOUNTING

ACC 300 – PRE-CORE ACCOUNTING (5) (F,W,S)
Accounting concepts and techniques essential to administration of a business enterprise and periodic determination of income and financial position; asset and equity accounting in proprietorships, partnerships and corporations.

ACC 401 – FINANCIAL ACCOUNTING–INTERMEDIATE (5) (W)
Accounting principles underlying financial statements; concepts and procedures applied to development, presentation, interpretation and analysis of financial reports. Prerequisite: ACC 307 or equivalent.

ACC 402 – FINANCIAL ACCOUNTING–ADVANCED (5) (S)
Theory and practice of accounting for partnerships, business combinations, consolidated financial statements, diversified and multinational corporations, fiduciary relationships and non-profit institutions. Prerequisite: ACC 401 or equivalent.
ACC 405 – MANAGERIAL ACCOUNTING (5)  (W,S)
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: ACC 307 or equivalent.

ACC 406 – INCOME TAX ACCOUNTING (5)  (W,S)
Determination of tabable income for the individual and the firm, exploration of concepts of taxation with emphasis on tax planning. Prerequisite: AEC 401, or equivalent.

ACC 407 – AUDITING THEORY AND PRACTICE (5)  (S)
Principles and procedures applied by independent public accountants; ethics and responsibilities of auditors, development of audit programs, accumulation of audit evidence, and reporting. Prerequisite: ACC 402, or equivalent.

ACC 505 – PROFIT PLANNING AND CONTROL (5)
Managerial profit planning and budgetary control; various types of budgets; variation and breakeven analysis; human aspects of budget application.

ACC 506 – GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (5)
Budgeting, accounting and reporting principles and practices for government and other non-profit entities.

ACC 507 – INTERNATIONAL ACCOUNTING (5)
Comparative analysis of accounting concepts and practices in different countries, problems of accounting for multinational corporations including transfers of funds and income measurement; the role of accounting in national economic development.

ACC 508 – ACCOUNTING INFORMATION SYSTEMS (5)  (F)
Design and operation of accounting systems to produce useful, relevant considerations given to information for management decision-making; the collection, measurement, processing and communication of financial data; special attention to different types of systems.

ACC 509 – ACCOUNTING THEORY (5)
A study of the theoretical structures of accounting, with special attention to controversial areas relating to asset definition, recognition and measurement; an appraisal of pronouncements of professional accounting organizations.
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.

ACC 515 – TAX PLANNING AND RESEARCH (5)
Federal taxation of corporations, corporate distributions and liquidations; estate, trust and gift taxation; tools and methods of tax research; income tax and estate tax planning.

ACC 516 – ADVANCED MANAGERIAL ACCOUNTING (5)
Direct costing, distribution costing, intracompany transfer pricing, cost for product pricing, incremental profit analysis and other advanced topics.

ACC 517 – ACCOUNTING PROBLEMS (5) (F)
Intensive study of selected advanced accounting topics including problems in respect to multiple ownership, fund accounting and actuarial applications; questions and problems found in recent C.P.A. examinations.

ACC 518 – STUDIES IN AUDITING (5)
Professional and technical aspects of the function of auditing ethics and legal responsibilities; review of field work emphasizing the auditing process and auditing examinations; reporting problems including long-form and special purpose reports, opinions, and study of recent auditing developments.

ACC 526 – INTERNATIONAL TAXATION (5)
Exploration of taxation and other laws and practices of the United States and other countries relating to multinational operations with emphasis on organization and planning for such operations. Prerequisite ACC 406, or the equivalent.

BUSINESS LAW

LAW 405 – BUSINESS LAW I (5)
The nature and sources of law and the operation of our court system, contracts, torts, agency, partnerships, corporations. Relevant provisions of the Uniform Commercial Code.

LAW 406 – BUSINESS LAW II (5)
Bailments, shipment and sale of goods, suretyship, commercial paper, real and personal property, insurance, bankruptcy. Relevant provisions of the Uniform Commercial Code.
LAW 407 – C.P.A. LAW REVIEW (5)
Concentrated study of areas of law covered by recent C.P.A. law examinations, in depth approach to Uniform Commercial Code provisions; and discussion of regulations and provisions by governmental agencies that regulate business.

FINANCE

FIN 405 – MANAGERIAL FINANCIAL POLICIES (5) (S)
Builds upon the student's understanding of the process of funds allocation within the firm and extensions into various approaches to securing these funds. Financial decision making and relevant policy aspects will be stressed.

FIN 504 – ENTREPRENEURIAL FINANCE (5) (W)
The new firm, the modest size firm and an individual desirous of going into business face capital acquisition and management problems of a different structure and magnitude than a large, established firm. This course is designed to expose students to the financial markets and managerial technologies available to potential and existing entrepreneurs and owner/manager.

FIN 507 – MANAGEMENT OF FINANCIAL INSTITUTIONS (5) (W)
The functions of financial institutions and their effective management to service the needs of their community.

FIN 508 – INVESTMENTS AND STOCK MARKET OPERATIONS (5) (F)
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 515 – FINANCIAL POLICIES OF NOT-FOR-PROFIT ORGANIZATIONS (5) (S)
Financial managerial processes relevant to governmental and other not-for-profit organizations. Emphasis is placed upon legal, political, and market constraints in securing, managing, and expending funds.

INSURANCE

INS 405 – RISK AND INSURANCE (5)
Types of risk; methods of handling risk; analysis of insurance as a principal method; organization and operation of insurance companies; bases for decision making in management of personal and business risks.
INS 406 — PROPERTY AND LIABILITY INSURANCE (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 407 — LIFE INSURANCE (5)
Functions and uses of life insurance; types of policy contracts, calculation of premiums and reserves; investments; legal principles; organization, management, and supervision of companies.

INS 408 — RISK MANAGEMENT (5)
Concepts and philosophies of risk management; application of alternatives to handling risks, including risk retention, loss prevention, corporate insurance programs and self-insurance; insurance surveys and case studies.

INS 409 INSURANCE LAW (5)
Legal environment and essentials of the law particularly applicable to the business of insurance; emphasis on statutory regulation in Florida.

INS 415 — PERSONAL INSURANCE PLANNING (5)
Planning a personal program of insurance, integrating life, health and accident, property, pensions, and governmental programs.

INS 416 — BUSINESS AND ESTATE INSURANCE PLANNING (5)
Applications of life and health insurance to business and estate planning situations; emphasis on current practices and developments in retirement planning, business continuation, and estate 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 organizations; underwriting, rate making, regulation, legal organization, management and control, financial analysis, marketing systems.
MANAGEMENT INFORMATION SYSTEMS

MIS 505 – SYSTEMS ANALYSIS (5)
Study of the methodology of Systems Analysis and Systems Management, in particular as it pertains to large organizations. Application of decision theory, value theory and cost-effectiveness analysis to the evaluation of a system's worth. The contribution of planning, programming and budgeting and project management to the administration of large systems will be examined. The informational requirements of systems will also be considered. Prerequisites: ACC 300, BUA 308, or equivalent.

MIS 506 – APPLIED DETERMINISTIC OPERATIONS RESEARCH (5)
Application of deterministic operations research models such as linear and nonlinear programming, network (CPM), dynamic programming and branch and bound to managerial problems of allocation, planning and scheduling, investment, and control. Prescheduling, investment, and allocation. Prerequisites: BUA 308, and one semester of calculus.

MIS 507 – APPLIED STOCHASTIC OPERATIONS RESEARCH (5)
Application of operations probabilistic models to managerial problems of inventories, queuing, replacement and maintenance, scheduling, investment, and allocation. Prerequisites: BUA 305, BUA 308, and one semester of calculus.

MIS 508 – SIMULATION OF MANAGEMENT SYSTEMS (5)
Basic concepts in computer simulation of systems. Application of these concepts in a variety of managerial problems. Industrial dynamics, urban dynamics and large system simulation. Simulation in economic analysis. Heuristic methods, management games. Computer programs and languages for simulation. Operation of a simulation model. Prerequisite: MAS 309, or equivalent.

MIS 509 – COMPUTER BASED MANAGEMENT INFORMATION SYSTEMS (5) (W)
Application of the principles and tools of system analysis, simulation and management information systems to the various activities in the organization. Emphasis is placed on the identification of all managerial information needs in a large organization. The information system is viewed as an overall system where all major functional modules of the organization are integrated into an optimal whole. Prerequisites: BUA 306, ACC 300, MAN 507, or equivalent. The course should be taken in the last quarter of the senior year.
MIS 510 – COMPUTERS IN MANAGEMENT (5)
A survey course concerned with the applications and importance of computers in organizations. Development of computers and their major characteristics. Problem oriented languages and simulated models. Impact of computers on organizations. The economics of computers.

MANAGEMENT (PERSONNEL)

PEM 505 – PERSONNEL MANAGEMENT (5) (W)
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.

PEM 506 – INDUSTRIAL RELATIONS (5)
Organizational and economic analysis of the problems and issues arising out of legislative and judicial efforts to define the rights, duties and responsibilities of labor organizations and management in the field of labor relations. Comparative analysis of industrial relations systems within their political, social and economic environments. Law and governmental policy in industrial relations.

PEM 507 – 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 conciliation. The course deals also with the analysis of the labor market.

PEM 508 – 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 organizational concepts. These concepts include authority, structure, conflict, communications, group and individual behavior and decision making. Primary emphasis is on developing an integrated philosophy of organization and management. Prerequisite: BUA 309, or equivalent.

PEM 509 – BEHAVIORAL SCIENCE IN MANAGEMENT (5)
An analysis of selected concepts in behavioral science, their interaction and application to management. Topics include
perception, motivation, organizational climate, interpersonal dynamics, group behavior, and inter-group behavior. Development of analytical skills through small group problem solving exercises, case studies, and field research. Prerequisite: BUA 309, or equivalent.

PEM 510 — INTERNATIONAL MANPOWER MANAGEMENT (5)
National, as well as international, manpower 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.

MANAGEMENT (PRODUCTION AND GENERAL)

MAN 505 — PRODUCTION MANAGEMENT (5)
Decision analysis related to the effective utilization of the factors of production in manufacturing and non-manufacturing activities for both intermittent and continuous systems. The study of production organizations, analytical models and methods, facilities design. Prerequisite: MAS 309, or equivalent.

MAN 506 — MANAGERIAL QUALITY CONTROL (5)
Application of statistical techniques to managerial control systems, including quality control and reliability. Prerequisites: BUA 305, BUA 308, or equivalent.

MAN 507 — 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: Allocation, Inventories, Project Management, Replacement, Transportation, Scheduling, Sequencing, Queuing Theory, and Competition. Prerequisite: MAS 309, or equivalent.

MAN 508 — MANAGEMENT SCIENCE IN ECOLOGY AND URBAN SYSTEMS (5)
Application of management science/operations research tools to managerial problems in the areas of ecology and urban systems. The students will carry out an applied project. Prerequisites: BUA 305, MAN 507, or equivalent.

MAN 509 — BUSINESS RESEARCH METHODS IN ORGANIZATIONS (5)
Meaning of research and scientific methods. Forms of scientific method applicable to business research. Types of business research problems, and available types of methods and tools. Actual research procedures. Prerequisite: MAS 309, or equivalent.
MAN 510 – SMALL BUSINESS MANAGEMENT (5)
The organization and operation of the small business—the accounting, finance, production and marketing sub-systems. The use of analytical approach. Problems of manpower management and information flow. Possible use of EDP. Case Studies.

MAN 511 – PRODUCTION CONTROL SYSTEMS (5)
The design of control systems for production operations automation and its impact on organizations. Integrated operational systems — simulation approach. Group and individual projects. Prerequisite: MIS 509, or equivalent.

MAN 512 – INTERNATIONAL MANAGEMENT (5)
A comparative analysis of management styles in different parts of the world. Management will be viewed in its broader context, including the management of state and quasi-independent enterprises. The evolutionary process of management processes is stressed.

MAN 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.

MAN (HSM) 514 – HEALTH CARE SYSTEMS (5) (F)
Description of various health care administrative systems, discussion of various health care problems and programs. Quality of health care, group practice and prepayment programs.

MARKETING

MAR 405 – SOCIAL MARKETING (5)
The nature and role of marketing in the economic system. Concern with how marketing has performed, and its potential as an agent of change.

MAR 407 – MARKETING MANAGEMENT: PRODUCT AND PRICE STRATEGY (5)
The planning and execution of the product and price elements in the marketing program of a firm. Environmental factors, behavioral concepts, and quantitative methods are emphasized.
MAR 408 – MARKETING MANAGEMENT: PROMOTION AND DISTRIBUTION (5)
Decision making in the management of communication and distribution between the firm and its markets, with the focus on applying relevant management science techniques.

MAR 409 – MARKETING POLICY (5)
The interaction of product, price, communication and distribution and their effect on the total firm system.

MAR 505 – ADVERTISING MANAGEMENT (5) (F)
Planning and execution of advertising activities within the firm including budgetary media strategy, measurement of the effectiveness and coordination with other promotional activities.

MAR 506 – INTERNATIONAL MARKETING (5)
An examination of the structure of foreign trading, and contemporary trends in the international economy affecting marketing policy and practices.

MAR 507 – MIDDLEMAN MANAGEMENT (5)
Management practices in the operation of retail and wholesale enterprises. Concern with basic functions of merchandising, promotion, control and operations.

MAR 508 – CONSUMER BEHAVIOR (5) (W)
Consumer behavior viewed as a system of environmental inputs and behavioral outputs. Psychological, social, cultural and ethnic variables are studied.

MAR 509 – SALES FORCE MANAGEMENT (5)
Management of sales force; planning, implementing and coordinating the personal selling effort with the total marketing program; sales forecasting, motivation, evaluation and control.

MAR 518 – MARKETING INFORMATION SYSTEMS (5) (S)
The role of information in marketing decision making; study of information systems, value of information, the research process, collection of data, sampling, data analysis and performance evaluation.

MAR 519 – SERVICE MARKETING (W,S)
Planning and execution of marketing programs in service industries with emphasis on the hospitality industry.
PUBLIC ADMINISTRATION

PAD 506 – URBAN SYSTEMS (5)
Analysis of several of the major problems common to urban areas and exploration of private and public attempts to alleviate these problems.

PAD 509 – POLICY ANALYSIS AND ADMINISTRATIVE PROCESSES (5)
Policy consequences of administrative decisions and the process in which administrative policies are formulated will be analyzed. Emphasis will be placed on policy implementation procedures in view of the organization and its relationship to its environment.

PAD 515 – PLURALISM AND DEMOCRACY IN ADMINISTRATION (5)
Several of the more important relationships in which the various institutions in the public and private sectors interact will be analyzed. The role of the administrators in this interacting process will be emphasized.

PAD 516 – *PERSONAL GROWTH AND PROFESSIONAL DEVELOPMENT (5)
The administrator as an individual, processes for the development of interpersonal and group skills; self-evaluation and career planning; training and education for the public service sector.
*Could also include actual training experiences.

PAD 517 – ECOLOGY AND MANAGEMENT OF PUBLIC RESOURCES (5)
The role of administrators and techniques useful to the management of public resources will be analyzed. Management of public resources will also be concerned with the impact of administrative decisions on the ecology.

PAD 518 – SERVICE DELIVERY SYSTEMS (5)
Marketing techniques useful on delivering public services will be presented and analyzed.

REAL ESTATE

RES 405 – REAL ESTATE (5)
Decision making processes for development, financing, marketing, and management of real estate space. Institutional context, economics of urbanization, city growth structure, and public policy issues concerning urban environment and the real estate business.
RES 506 – INCOME PROPERTY FINANCE (5)  (W)
Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for the construction financing and permanent financing of income producing property, including apartments and condominiums.

RES 507 – RESIDENTIAL PROPERTY FINANCE (5)  (S)
Mechanisms of construction financing and permanent financing of single-family housing and condominiums; sources of funds; loan contracts; mortgage risk analysis; governmental agencies; public policy.

RES 508 – REAL ESTATE LAW (5)
Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; title; conveyances; landlord and tenant; restrictions and zoning; eminent domain.

RES 509 – REAL ESTATE INVESTMENT (5)  (F)
Fundamentals of acquisition, ownership, and disposition of investment property; impact of income; cash flow; syndication; taxation; tax shelter; financial analysis and projection; analysis of specific types of investment property.

RES 515 – VALUATION OF RESIDENTIAL PROPERTY (5)
Valuation and appraisal framework applied to single-family housing and condominiums; the economic, legal, social, and governmental forces influencing property value; recognition of residential construction quality.

RES 516 – VALUATION OF INCOME PROPERTY (5)
Valuation and appraisal framework applied to income properties; capitalization; rates and techniques; discounting and compound interest; mortgage-equity analysis; Ellwood analysis; role of computers; valuation as a guide to business decisions.

RES 525 – 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.

RES 526 – REAL ESTATE POLICY (5)
A capstone course integrating all aspects of real estate learned in previous courses; projects, cases, and field trips.
RES 517 — REAL ESTATE MARKETING (5)
Organization and operation of a real estate brokerage office, including selection, training and financing of sales personnel; obtaining and controlling listings; processes and methods involved in the selling of real estate; promotion activities, including advertising and public relations; growth problems; professionalism; ethics.

RES 518 — REAL ESTATE MANAGEMENT (5)
Theories and techniques of professional management of real estate; creating a management plan; merchandising space; economics of alternates; market analysis; the maintenance process; owner-tenant-manager relations; operating budgets; tax consideration; ethics.

RES 519 — URBAN LAND ACQUISITION AND DEVELOPMENT (5)
Real estate development: acquisition of raw land; zoning; subdivision into sites; provision of utilities and services; financing; merchandising of improved sites; emphasis on design and development of residential communities.

TRANSPORTATION

TRA 405 — TRANSPORTATION SYSTEMS AND SERVICES (5)
Survey and analysis of transport modes; logistics; services; rates; interaction with users and government; current problems.

TRA 406 — MASS TRANSPORTATION AND URBAN PROBLEMS (5)
Urban and congested areas transport development and requirements; management techniques and operating principles; policy and regulation.

TRA 507 — CARRIER MANAGEMENT AND OPERATIONS (5)
Business management applied to carriers; emphasis on management problems peculiar to transport firms; economic analysis of marketing problems, capital formation, cost-finding, labor relations, pricing, and government relations.

TRA 508 — TRANSPORTATION REGULATION AND POLICY (5)
Regulation of industrial traffic and transport modes; national policies.
TRA 509 – PHYSICAL DISTRIBUTION ANALYSIS (5)
Distribution in over-all company operations; organization of traffic function; analysis of alternative sources of transportation; integration of transportation with production flow, inventory management, warehousing, marketing policies, and plant location.

Graduate Studies

Academic programs and courses for Graduate Studies in the School of Business and Organizational Sciences are described in a separate publication.
The School of Education offers both undergraduate and graduate degree programs that meet requirements for certification to be employed as a teacher, counselor, school psychologist, supervisor, or principal in Florida schools.

Professional education courses offered as a part of undergraduate teacher certification programs are normally open only to students who have been admitted to a teacher preparation program. Other students may be admitted by permission of the course instructor only.

All Master of Science degree programs have admission stipulations that include one or more prior professional training and/or experience requirements, in addition to the undergraduate academic record and/or Graduate Record Examination test scores. Students should consult with the Division office in the School of Education that is responsible for the major in which they are interested before applying for graduate admission to the University.

### Generalized Program of Study for Preparation of:

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<tr>
<th>Teachers of:</th>
<th>Secondary Teachers of:</th>
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<td>CHEMISTRY</td>
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<td>HEALTH EDUCATION, GRADES 7-12</td>
<td>ENGLISH</td>
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<tr>
<td>INDUSTRIAL ARTS EDUCATION</td>
<td>HISTORY</td>
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<td>KINDERGARTEN — GRADE 6</td>
<td>HUMANITIES</td>
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<td>MUSIC</td>
<td>MATHEMATICAL SCIENCES</td>
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<td>PHYSICAL EDUCATION, GRADES 1-12</td>
<td>MODERN LANGUAGES</td>
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<td>SOCIAL STUDIES</td>
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### TEACHERS OF ART

#### Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

**Required Courses:** Adequate preparation in art; students will be admitted to the program who have:

1. an AA degree in Art or
2. provided evidence of competency through
   (a) two dimensional and three dimensional design and basic and
       figure drawing through a transcript from another institution or
   (b) a portfolio or
   (c) an entrance examination or

3. departmental permission to dual enroll in a junior college for
   coursework in design and/or drawing.

Recommended Courses: Equivalents of the courses listed below in the
"Foundations of Education" (section 2) are offered in the Junior College
and students are urged to take them before entering Florida International
University. If not, 10 quarter hours of foundations (section 2) will be
needed to meet this requirement. The State of Florida requires one course
in psychological foundations and one course in social foundations for
teacher certification.

Florida International University Generalized Program of Study

1. Subject Matter Specialization
   40 to 45 quarter hours in the upper division, including
   CONTEMPORARY ART. 40-45

2. Foundations of Education
   PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
   or
   PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
   SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

   Professional Education
   EDU 305 - SCHOOLING IN AMERICA K-14 5
   EDU 311 - GENERAL TEACHING LABORATORY I 5
   EDU 312 - GENERAL TEACHING LABORATORY II 5
   EDU 405 - SPECIAL TEACHING LABORATORY: ART 5
   EDS 425 - STUDENT TEACHING 15

Electives
Sufficient number of hours to make a total of 90 quarter hours at Florida International
University.

TEACHERS OF EXCEPTIONAL CHILDREN

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division
coursework necessary to enter this upper division major, note the following
recommendations and/or requirements:
Required Courses: None

Recommended Courses: (a) One Course in psychology dealing with dynamics of behavior, one course in cultural anthropology and one course in introductory sociology. (b) Equivalents of the courses listed below in the "Foundations of Education" (section 1) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Studies

1. Foundations of Education

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2. Professional Education

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<td>or</td>
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3. Electives

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25
TEACHERS OF HEALTH EDUCATION, GRADES 7–12

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, not the following recommendations and/or course requirements.

Required Course: None

Recommended Courses: (a) Equivalents of the courses listed below in the “Foundations of Education (section 1) are offered in the Junior College and students are urged to take them before entering Florida International University. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification. (b) An equivalent of HED 406 (section 3, below) is offered in the Junior College and students are urged to take it before entering Florida International University.

Florida International University Generalized Program of Study

1. Foundations of Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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<td>PSYCHOLOGY 305</td>
<td>INTRODUCTORY EDUCATIONAL PSYCHOLOGY</td>
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<td>SOCIOLOGY 343</td>
<td>SCHOOL AND SOCIETY</td>
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2. Subject Matter Specialization

BIOLOGY courses in the upper division to include BACTERIOLOGY and HUMAN ANATOMY or PHYSIOLOGY 15

3. Professional Education

<table>
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<tr>
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<td>EDU 311</td>
<td>GENERAL TEACHING LABORATORY I</td>
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<td>EDU 312</td>
<td>GENERAL TEACHING LABORATORY II</td>
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<td>HED 405</td>
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<td>HED 408</td>
<td>SCHOOL PROGRAMS IN HEALTH EDUCATION</td>
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4. Advised Electives

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<td>HED 413</td>
<td>INDEPENDENT STUDY</td>
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<tr>
<td>HEP 374</td>
<td>HEALTH &amp; SOCIAL SERVICE DELIVERY SYSTEMS</td>
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**TEACHERS OF INDUSTRIAL ARTS EDUCATION**

**Lower Division Preparation**

As part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, not the following recommendations and/or requirements:

**Required Courses:** None

**Recommended Courses:** (a) It is highly recommended that coursework be considered in the areas of Drafting, Construction, Manufacturing, Power and Transportation, Woods, Metals, Graphics, Plastics, Physics, Chemistry, Psychology, Mathematics and Speech. (b) Equivalents of the courses listed below in the "Foundations of Education" (section 1) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

**Florida International Generalized Program of Studies**

1. **Foundations of Education**

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<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>PSYCHOLOGY 307</td>
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<td>or</td>
<td>PSYCHOLOGY 305</td>
<td>INTRODUCTORY EDUCATIONAL PSYCHOLOGY</td>
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<tr>
<td>SOCIOLOGY 343</td>
<td>SCHOOL AND SOCIETY</td>
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2. **Professional Education**

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<th>Course</th>
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<tr>
<td>EIA 305</td>
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<td>EIA 306</td>
<td>MANUFACTURING TECHNOLOGY</td>
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<tr>
<td>EDU 311</td>
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<tr>
<td>EIA 307</td>
<td>COMMUNICATIONS MEDIA AND PROCESSES</td>
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<td>EIA 405</td>
<td>ORGANIZATIONAL AND PERSONNEL PRACTICES</td>
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<td>EDU 312</td>
<td>GENERAL TEACHING LAB II</td>
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<tr>
<td>EIA 408</td>
<td>POWER SYSTEMS and/or</td>
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<td>EIA 406</td>
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<td>AND DEVELOPMENT and/or</td>
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</table>
EIA 407 - MATERIALS PROCESSING AND FABRICATING 5
EVO 406 - SPECIAL TEACHING LAB 5
EVO 306 - COURSE PLANNING IN VOCATIONAL EDUCATION 5
EVO 405 - INSTRUCTIONAL MEDIA FOR VOCATIONAL TEACHING 5
EVO 425 - STUDENT TEACHING 15

3. Advised Electives
   ECONOMICS OR SOCIOLOGY 5
   PSYCHOLOGY 5

4. Free Elective

TEACHERS OF KINDERGARTEN — GRADE 6

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) It is highly recommended that coursework be considered in the areas of music skills, art skills or basic design for children, mathematics for elementary teachers, Florida history, children's theatre and physical education activities for children. (b) Equivalents of the courses listed below in the "Foundations of Education" (section 1) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Remarks: Students should consider the Junior College experience as an opportunity to explore areas of general interest as well as to prepare for a specific professional goal.

Florida International University Generalized Program of Study

1. Foundations of Education

   PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
   or
   PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
   SOCIOLOGY 343 - SCHOOL AND SOCIETY 5
2. Professional Education

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<td>EEL 401</td>
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3. Area Of Concentration

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4. Electives

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</table>

TEACHERS OF MUSIC

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: Adequate preparation in music, students will be admitted to the program who have:
1. An AA degree in Music or
2. Provided evidence of competency through departmental exams in the areas of theory, performance in a major instrument, sight singing, and proficiency at the keyboard.

Recommended Courses: Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International University. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.
Florida International University Generalized Program of Study

1. Subject Matter Specialization

42 to 45 quarters in the upper division including
12 hours in APPLIED MUSIC
6 hours in ORGANIZATIONS
2 hours in RECITAL AND RESEARCH
15 hours in MUSIC THEORY
2 hours in CONDUCTING
5 hours in MUSIC HISTORY

2. Foundations of Education

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<th>Title</th>
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<tr>
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| or
| PSYCHOLOGY 305 | INTRODUCTORY EDUCATIONAL PSYCHOLOGY        | 5       |
| SOCIOLOGY 343 | SCHOOL AND SOCIETY                         | 5       |

3. Professional Education

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<tr>
<td>EDU 305</td>
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<td>EDU 406</td>
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<td>EDS 425</td>
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4. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

TEACHERS OF PHYSICAL EDUCATION, GRADES 1-12

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

Required Courses: None

Recommended Courses: (a) Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International University. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification. (b) Equivalents of PHE 407 and HED 406 (section 3, below) are
offered in the Junior College and students are urged to take them before entering Florida International University.

Florida International University Generalized Program of Study:

1. **Foundations of Education**
   
   **CREDITS**

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<td>or</td>
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<tr>
<td>SOCIOLGY 343</td>
<td>SCHOOL AND SOCIETY</td>
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2. **Subject Matter Specialization**

   PHYSIOLOGY

3. **Professional Education**

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<td>305 - SCIENTIFIC FOUNDATIONS OF PHYSICAL EDUCATION I</td>
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<td>306 - SCIENTIFIC FOUNDATIONS OF PHYSICAL EDUCATION II</td>
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<td>307 - SCIENTIFIC FOUNDATIONS OF PHYSICAL EDUCATION III</td>
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<td>405 - SPECIAL TEACHING LAB: PHYSICAL EDUCATION</td>
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<td>PHE</td>
<td>409 - THEORY AND PRACTICE IN PHYSICAL ACTIVITIES (WOMEN)</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>408 - THEORY AND PRACTICE IN PHYSICAL ACTIVITIES (MEN)</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>410 - THEORY AND PRACTICE IN PHYSICAL ACTIVITIES (WOMEN)</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>416 - ANALYSIS OF SPORTS</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>425 - STUDENT TEACHING</td>
<td>15</td>
</tr>
<tr>
<td>HED</td>
<td>406 - HEALTHFUL LIVING: PERSONAL</td>
<td>5</td>
</tr>
</tbody>
</table>

4. **Advised Electives**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE</td>
<td>411 - COACHING DUAL AND INDIVIDUAL SPORTS</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>412 - COACHING TEAM SPORTS</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>413 - INDEPENDENT STUDY</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>414 - MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>415 - SCHOOL AND COMMUNITY RECREATION PROGRAMS</td>
<td>5</td>
</tr>
<tr>
<td>PHE</td>
<td>430 - SEMINAR IN PHYSICAL EDUCATION</td>
<td>5</td>
</tr>
</tbody>
</table>
TEACHERS OF TECHNICAL EDUCATION

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) Technical preparation in the student’s intended area of teaching (example: Electronic Technician, e.g. Electrical Fundamentals, Transistor Circuits, A.C. Circuits.)
(b) Equivalents of the courses listed below in the “Foundations of Education” (section 1) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida required one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Studies:

1. Foundations of Education
   PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
   or
   PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
   SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

2. Professional Education
   EDU 305 - SCHOOLING IN AMERICA: K-14 5
   EVO 305 - FOUNDATIONS OF VOCATIONAL EDUCATION 5
   EVO 509 - TECHNICAL EDUCATION IN AMERICAN SOCIETY 5
   EDU 311 - GENERAL TEACHING LABORATORY I 5
   EDU 312 - GENERAL TEACHING LABORATORY II 5
   EVO 306 - COURSE PLANNING IN VOCATIONAL EDUCATION 5
   EVO 407* - SUPERVISED OCCUPATIONAL EXPERIENCE 15
   EVO 405 - INSTRUCTIONAL MEDIA FOR VOCATIONAL TEACHING 5
   EVO 406 - SPECIAL TEACHING LABORATORY 5
   PSY 536 - PSYCHOLOGY OF ADULTHOOD AND AGEING 5
   EVO 425 - STUDENT TEACHING 15

3. Advised Electives
   SCIENCE, MATHEMATICS OR TECHNICAL AREA 10
   SOCIOLOGY AND TECHNICAL AREA 15
4. Free Elective

*For students who lack acceptable occupational experience in the area to be taught.

TEACHERS OF VOCATIONAL INDUSTRIAL EDUCATION

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) Technical preparation in the student's intended area of teaching (example: Machinist, e.g.: Manufacturing Processes, Machine Design, Machine Shop Practices.)
(b) Equivalents of the courses listed below in the "Foundations of Education" (section 1) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 1) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Study:

1. Foundations of Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHOLOGY 307</td>
<td>HUMAN GROWTH AND DEVELOPMENT</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>PSYCHOLOGY 305</td>
<td>INTRODUCTORY EDUCATIONAL PSYCHOLOGY</td>
</tr>
<tr>
<td>SOCIOLOGY 343</td>
<td>SCHOOL AND SOCIETY</td>
</tr>
</tbody>
</table>

2. Professional Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 305</td>
<td>SCHOOLING IN AMERICA: K-14</td>
</tr>
<tr>
<td>EEC 511</td>
<td>BEHAVIORAL APPROACHES TO CLASSROOM LEARNING</td>
</tr>
<tr>
<td>EVO 305</td>
<td>FOUNDATIONS OF VOCATIONAL EDUCATION</td>
</tr>
<tr>
<td>EDU 311</td>
<td>GENERAL TEACHING LAB I</td>
</tr>
<tr>
<td>EDU 312</td>
<td>GENERAL TEACHING LAB II</td>
</tr>
<tr>
<td>EVO 306</td>
<td>COURSE PLANNING IN VOCATIONAL EDUCATION</td>
</tr>
<tr>
<td>EVO 407*</td>
<td>SUPERVISED OCCUPATIONAL EXPERIENCE (5-15)</td>
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<tr>
<td>EVO 406</td>
<td>SPECIAL TEACHING LAB</td>
</tr>
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<td>EVO 405</td>
<td>INSTRUCTIONAL MEDIA FOR VOCATIONAL TEACHING</td>
</tr>
<tr>
<td>EVO 425</td>
<td>STUDENT TEACHING</td>
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</table>
3. Advised Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATHEMATICS, CHEMISTRY OR PHYSICS</td>
<td>5</td>
</tr>
<tr>
<td>SOCIOLOGY OR ECONOMICS</td>
<td>5</td>
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4. Free Electives

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

*For students who lack acceptable occupational experience in the area to be taught.

SECONDARY SCHOOL TEACHERS OF BIOLOGY

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) 12 quarter hours (8 semester hours) of Biology: 12 quarter hours (8 semester hours) of General Chemistry; Mathematics through Analytical Geometry.
(b) Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. 30 quarter hours of BIOLOGY</td>
<td>30</td>
</tr>
<tr>
<td>B. 15 quarter hours including ORGANIC CHEMISTRY, PHYSICAL CHEMISTRY, AND CALCULUS</td>
<td>15</td>
</tr>
</tbody>
</table>

2. Foundations of Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT</td>
<td>5</td>
</tr>
<tr>
<td>or PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>SOCIOLOGY 343 - SCHOOL AND SOCIETY</td>
<td>5</td>
</tr>
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</table>

3. Professional Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 305 - SCHOOLING IN AMERICA: K-14</td>
<td>5</td>
</tr>
<tr>
<td>EDU 311 - GENERAL TEACHING LABORATORY I</td>
<td>5</td>
</tr>
</tbody>
</table>
### 4. Electives
Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

### SECONDARY SCHOOL TEACHERS OF CHEMISTRY

#### Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

**Required Courses:** None

**Recommended Courses:** (a) General Chemistry, Organic Chemistry, General Physics with Calculus, and Mathematics through Calculus II. (b) Equivalents of the courses listed below in the “Foundations of Education” (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.  
**Remarks:** Linear Algebra, a pre-requisite for Multi-variable Calculus (section 1, below), may be taken either in the lower division or at Florida International University.

Florida International University Generalized Program of Study:

<table>
<thead>
<tr>
<th>Subject Matter Specialization</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>21-25 quarter hours including the following:</td>
<td></td>
</tr>
<tr>
<td>A. PHYSICAL CHEMISTRY</td>
<td>15</td>
</tr>
<tr>
<td>B. PHYSICAL CHEMISTRY LAB</td>
<td>1-5</td>
</tr>
<tr>
<td>C. MULTI-VARIABLE CALCULUS</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foundations of Education</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT</td>
<td>5</td>
</tr>
<tr>
<td>or PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>SOCIOLOGY 343 - SCHOOL AND SOCIETY</td>
<td>5</td>
</tr>
</tbody>
</table>
3. Professional Education

EDU 305 - SCHOOLING IN AMERICA K-14 5
EDU 311 - GENERAL TEACHING LABORATORY I 5
EDU 312 - GENERAL TEACHING LABORATORY II 5
EDS 408 - SPECIAL TEACHING LABORATORY: SCIENCE 5
EDS 425 - STUDENT TEACHING 15

4. Electives

Recommended electives in Environmental Studies. Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF ENGLISH

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Remarks: Nine quarter hours (six semester hours) beyond freshman English may be transferred from the lower division toward satisfying requirements of Section 1 below.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization

40 quarter hours beyond freshman ENGLISH 40
Included in the 40 quarter hours must be 10 to 15 quarter hours in each of the following areas:
A. COMMUNICATIONS
B. LITERATURE
C. LANGUAGE

2. Foundations of Education

PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
or
3. Professional Education

EDU 305 - SCHOOLING IN AMERICA K-14 5
EDU 311 - GENERAL TEACHING LABORATORY I 5
EDU 312 - GENERAL TEACHING LABORATORY II 5
EDS 405 - SPECIAL TEACHING LABORATORY: ENGLISH 5
EDS 425 - STUDENT TEACHING 15

4. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF HISTORY

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: Equivalents of the courses listed below in the “Foundations of Education” (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Remarks: Nine quarter hours (six semester hours) beyond the Social Science requirement in General Education may be transferred from the lower division toward satisfying requirements of sections 1 C and/or 1 D below.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization

A. HISTORY 301 – INTRODUCTION TO HISTORY 5
B. U.S. HISTORY AT 300, 400, or 500 level 10
C. HISTORY other than U.S. 20
D. U.S. GOVERNMENT 5

2. Foundations of Education

PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

3. Professional Education
EDU 305 - SCHOOLING IN AMERICA K-14 5
EDU 311 - GENERAL TEACHING LABORATORY I 5
EDU 312 - GENERAL TEACHING LABORATORY II 5
EDS 409 - SPECIAL TEACHING LABORATORY: SOCIAL STUDIES 5
EDS 425 - STUDENT TEACHING 15

4. Electives
Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF HUMANITIES

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

**Required Courses:** None

**Recommended Courses:** Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

**Remarks:** Nine quarter hours (six semester hours) beyond the Humanities requirement in General Education may be transferred from the lower division toward satisfying requirements of section 1, below.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization
15 quarter hours in four of the following seven areas, a total of 60 quarter hours:

- ENGLISH
- MUSIC
- FINE ARTS
- PHILOSOPHY-RELIGION
- HISTORY
- THEATRE
- MODERN LANGUAGES

CREDITS 60
2. Foundations of Education

PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
or
PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

3. Professional Education

EDU 305 - SCHOOLING IN AMERICA K-14 5
EDU 311 - GENERAL TEACHING LABORATORY I 5
EDU 312 - GENERAL TEACHING LABORATORY II 5
EDU 312 - SPECIAL TEACHING LABORATORY IN ART
or ENGLISH, or MUSIC, or SOCIAL STUDIES 5
EDS 425 - STUDENT TEACHING 15

4. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF MATHEMATICAL SCIENCES

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) Coursework in Mathematics through Calculus. Depending on their background, students who have not completed Calculus will need to add 5 to 10 hours to their program (section 1 below). (b) Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International University. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization

35 quarter hours beyond CALCULUS, including
at least: 10 quarter hours in Probability and
Statistics and 5 quarter hours in a computer
related course 35
2. Foundations of Education

PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT  5
or
PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY  5
SOCIOLOGY 343 - SCHOOL AND SOCIETY  5

3. Professional Education

EDU 305 - SCHOOLING IN AMERICA K-14  5
EDU 311 - GENERAL TEACHING LABORATORY I  5
EDU 312 - GENERAL TEACHING LABORATORY II  5
EDS 406 - SPECIAL TEACHING LABORATORY: MATHEMATICS  5
EDS 425 - STUDENT TEACHING  15

4. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF MODERN LANGUAGES

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: Four semesters of elementary and intermediate modern language.

Recommended Courses: Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization  CREDITS
   30 quarter hours beyond second year college language
   in LANGUAGE and LITERATURE  30

2. Foundations of Education  5
   PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT  5
   or
PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

3. Professional Education
EDU 305 - SCHOOLING IN AMERICA K-14 5
EDU 311 - GENERAL TEACHING LABORATORY I 5
EDU 312 - GENERAL TEACHING LABORATORY II 5
EDS 407 - SPECIAL TEACHING LABORATORY: MODERN LANGUAGES 5
EDS 425 - STUDENT TEACHING 15

4. Electives
Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF PHYSICS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) General Physics with Calculus and Mathematics through Calculus II. (b) Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida required one course in psychological foundations and one course in social foundations for teacher certification.

Remarks: Linear Algebra, a prerequisite for Multi-variable Calculus (section 1, below), may be taken either in the lower division or at Florida International University.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization
   25 quarter hours in PHYSICS, including work in the following:
   ELECTRICITY and MAGNETISM, OPTICS, and ELECTRONICS,
   plus Multi-variable CALCULUS 25

2. Foundations of Education
3. Professional Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 305</td>
<td>SCHOOLING IN AMERICA K-14</td>
<td>5</td>
</tr>
<tr>
<td>EDU 311</td>
<td>GENERAL TEACHING LABORATORY I</td>
<td>5</td>
</tr>
<tr>
<td>EDU 312</td>
<td>GENERAL TEACHING LABORATORY II</td>
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</tr>
<tr>
<td>EDS 408</td>
<td>SPECIAL TEACHING LABORATORY: SCIENCE</td>
<td>5</td>
</tr>
<tr>
<td>EDS 425</td>
<td>STUDENT TEACHING</td>
<td>15</td>
</tr>
</tbody>
</table>

4. Electives

Recommended electives in Instrumentation, Environmental Studies, and Dynamics. Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF PSYCHOLOGY

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: (a) A course in General Introduction of Psychology or Foundations of Psychology. (b) Equivalents of the courses listed below in the “Foundations of Education” (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Study:

1. Subject Matter Specialization

35 to 45 quarter hours in the upper division as follows:

| A. ADVANCED GENERAL PSYCHOLOGY | 5 |
| B. EXPERIMENTAL PSYCHOLOGY     | 5 |
| C. One course in at least two of the following areas: | 10 |
| (1) GENERAL or EXPERIMENTAL PSYCHOLOGY | (in addition to the courses above) |
2. Foundations of Education

**PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT** 5

or

**PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY** 5

**SOCIology 343 - SCHOOL AND SOCIETY** 5

3. Professional Education

**EDU 305 - SCHOOLING IN AMERICA K-14** 5

**EDU 311 - GENERAL TEACHING LABORATORY I** 5

**EDU 312 - GENERAL TEACHING LABORATORY II** 5

**EDS 409 - SPECIAL TEACHING LABORATORY: SOCIAL STUDIES** 5

**EDS 425 - STUDENT TEACHING** 15

4. Electives

Recommended elective: Elementary Statistics.

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

**SECONDARY SCHOOL TEACHERS OF SOCIAL STUDIES**

**Lower Division Preparation**

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

**Required Courses: None**

**Recommended Courses:** (a) with reference to section 1 below, students are encouraged to take as much coursework at the lower division as possible except that two courses in History, one course in Political Science, and one course in Geography must be taken at the upper division level. (b) Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International University. If not, 10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.
Florida International University Generalized Program of Study:

1. Subject Matter Specialization
   57-60 quarter hours including:
   A. U.S. HISTORY 9-10
   B. EUROPEAN HISTORY (RUSSIAN HISTORY would count in this category) 9-10
   C. HISTORY other than U.S. or EUROPEAN, including credit in both LATIN AMERICAN HISTORY and ASIAN HISTORY 9-10
   D. POLITICAL SCIENCE, including a course in U.S. GOVERNMENT 10
   E. FOUNDATIONS OF ECONOMICS 5
   F. GEOGRAPHY, including a course in NATURAL RESOURCES 10
   G. SOCIOLOGY of U.S. SUB-CULTURES 5

2. Foundations of Education
   PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
   or
   PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
   SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

3. Professional Education
   EDU 305 - SCHOOLING IN AMERICA K-14 5
   EDU 311 - GENERAL TEACHING LABORATORY I 5
   EDU 312 - GENERAL TEACHING LABORATORY II 5
   EDS 409 - SPECIAL TEACHING LABORATORY: SOCIAL STUDIES 5
   EDS 425 - STUDENT TEACHING 15

4. Electives
   Recommended electives: Anthropology and Psychology.
   Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SECONDARY SCHOOL TEACHERS OF THEATRE

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: None

Recommended Courses: Equivalents of the courses listed below in the "Foundations of Education" (section 2) are offered in the Junior College and students are urged to take them before entering Florida International. If not,
10 quarter hours of foundations (section 2) will be needed to meet this requirement. The State of Florida requires one course in psychological foundations and one course in social foundations for teacher certification.

Florida International University Generalized Program of Study

1. Subject Matter Specialization

45 quarter hours in the upper division as follows:

- HISTORY OF THEATRE 5
- Remaining 40 quarter hours to be distributed between PRODUCTION and PERFORMANCE courses 40

2. Foundations of Education

- PSYCHOLOGY 307 - HUMAN GROWTH AND DEVELOPMENT 5
  or
- PSYCHOLOGY 305 - INTRODUCTORY EDUCATIONAL PSYCHOLOGY 5
- SOCIOLOGY 343 - SCHOOL AND SOCIETY 5

3. Professional Education

- EDU 305 - SCHOOLING IN AMERICA K-14 5
- EDU 311 - GENERAL TEACHING LABORATORY I 5
- EDU 312 - GENERAL TEACHING LABORATORY II 5
- EDS 415 - SPECIAL TEACHING LABORATORY: SPEECH 5
- EDS 425 - STUDENT TEACHING 15

4. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

GENERAL PROFESSIONAL COURSES

EDU 305 — SCHOOLING IN AMERICA (5) (F,W,S,SS)
An overview of schooling (K-14) focusing upon the identification of the rationale, analysis and evaluation of reality based education systems.

EDU 311 GENERAL TEACHING LABORATORY I (5) (F,W,S)
Laboratory and field teaching practice of instructional skills, techniques and strategies general to all age levels and subject matter areas.

EDU 312 — GENERAL TEACHING LABORATORY II (5) (F,W,S)
Development of (1) competencies in tests and measurement as they relate to the classroom and (2) human relations skills to facilitate interaction and prepare students to deal with individuals and groups in a multi-ethnic urban setting.
EDU 405 – SPECIAL TEACHING LABORATORY: ART (5)  
Development of instructional skills, techniques, and strategies for teaching art in the elementary, middle, junior and senior high schools. Prerequisites: EDU 305, EDU 311 and EDU 312.

EDU 406 – SPECIAL TEACHING LABORATORY: MUSIC (5)  
Development of instructional skills, techniques, and strategies for teaching music in the elementary, middle, junior and senior high schools. Prerequisites: EDU 305, EDU 311 and EDU 312.

EDU 505 – INSTRUCTIONAL TECHNOLOGY (4)  
Development of instructional skills with an emphasis on the use of a systems approach in the design, implementation and evaluation of programs.

EDU 506 – ANALYSIS OF TEACHING (4)  
Examination of the research on instruction in the various teaching fields and the development of skills in systems of observation and analysis of teacher behavior.

EDU 507 – ANALYSIS AND APPLICATION OF EDUCATIONAL RESEARCH (4)  
Survey of selected educational research emphasizing the application of descriptive and inferential techniques.

EDU 508 – FIELD STUDY ABROAD (5-10)  
Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad.

EDU 509 – NATIONAL EDUCATIONAL SYSTEM: A COMPARATIVE ANALYSIS (4)  
A study of the purposes, programs, practices and problems in Education in selected nations, both developed and developing, with special attention to the way in which countries use education as an instrument for national development.

EDU 515 – EDUCATIONAL SYSTEMS IN LATIN AMERICA (4)  
A selective study of the current educational scene in Latin America, with particular attention to the direction which educational planning for the region is moving.

EDU 605 – RESEARCH METHODS IN EDUCATION (5)  
Development of research design and analytical skills required for in-depth investigation of educational problems.
EEL 306 – AESTHETIC EXPERIENCES FOR CHILDREN (5) (F,W,S,SS)
This experience is designed to provide each student with those teaching skills necessary for the development and implementation of programs concerning aesthetics. Three hours per week of laboratory and field work required. Prerequisite: Open to students who have taken, or are currently enrolled in EDU 311.

EEL 307 – HEALTH AND PHYSICAL EDUCATION FOR CHILDREN (5) (F,W,S,SS)
This experience is designed to provide each student with those teaching skills necessary for the development and implementation of programs concerning use of leisure time and maintenance of personal health and family life. Three hours per week of laboratory and field work required. Prerequisite: Open to students who have taken, or are currently enrolled in EDU 311.

EEL 401 – COMMUNICATION SKILLS I (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of reading. Prerequisite: EDU 312.

EEL 402 – COMMUNICATION SKILLS II (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using language arts activities to enhance communications skills. Prerequisite: EEL 401.

EEL 411 – DEVELOPMENT OF ATTITUDES AND SKILL FOR INQUIRY II (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using social studies as a mode of inquiry. Prerequisite: EDU 312.

EEL 412 – DEVELOPMENT OF ATTITUDES AND SKILLS FOR INQUIRY I (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using science and mathematics as a mode of inquiry. Prerequisite: EEL 411.

EEL 425 – STUDENT TEACHING (15) (W,S)
A field experience in an elementary school where the student serves
as a teacher associate, demonstrating competencies acquired throughout the program. Prerequisite: EEL 402; EEL 412.

ECE 501 – EARLY CHILDHOOD EDUCATION PROGRAMS (5) (F,S) Philosophy and theories of early childhood education; physical, emotional, social and mental development.

ECE 502 – 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.

ECE 595 – INDIVIDUAL STUDY IN EARLY CHILDHOOD EDUCATION (1-5) (F,W,S,SS) Individual investigation in the area of instruction.


ECE 607 – INSTRUCTION IN SOCIAL LEARNING (4) (F) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 608 – INSTRUCTION IN READING (4) (W) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 609 – INSTRUCTION IN LANGUAGE ARTS (4) (S) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 615 – INSTRUCTION IN MATHEMATICS (4) (F) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 616 – INSTRUCTION IN SCIENCE (4) (W) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 617 – INSTRUCTION IN MUSIC (4) (S) Refinement of skills related to program development, methods of teaching, selection of materials and review of research.
ECE 618 – INSTRUCTION IN ART (4) (F)  
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 619 – INSTRUCTION IN HEALTH AND PHYSICAL EDUCATION (4) (W)  
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

EEL 501 – DIAGNOSIS OF READING DISABILITIES (5) (F,W,S,SS)  
Technique for analyzing and clarifying reading disabilities.

EEL 502 – PROGRAMS OF REMEDIATION IN READING (5) (W,SS)  
A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques.

EEL 503 – ANALYSIS AND PRODUCTION OF READING MATERIALS (5) (S)  
Exploration, creation and evaluation of basic reading materials; commercial and non-commercial.

EEL 505 – ALTERNATIVE FORMS OF SCHOOLING (5) (S)  
Rationale, analysis, and evaluation of school forms designed to exist outside of the formal educational establishment.

EEL 595 – INDIVIDUAL STUDY IN ELEMENTARY EDUCATION (1-5) (F,W,S,SS)  
Individual investigation in the area of instruction.

EEL 605 – CURRICULUM DESIGN FOR CHILDHOOD EDUCATION (4) (F)  
A study of curriculum theory, construction and evaluation.

EEL 606 – EDUCATIONAL PROGRAMS FOR OLDER CHILDREN (4) (W)  
Basic philosophical, sociological and psychological considerations undergirding modern elementary school curriculum development. Research basis for contemporary curriculum trends.

EEL 607 – INSTRUCTION IN SOCIAL LEARNING (4) (F)  
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

EEL 608 – INSTRUCTION IN LANGUAGE ARTS (4) (S)  
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

EEL 609 – INSTRUCTION IN READING (4) (W)
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

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<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>EEL 615</td>
<td>INSTRUCTION IN MATHEMATICS (4)</td>
<td>S</td>
<td>Refinement of skills related to program development, methods of teaching, selection of materials and review of research.</td>
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<tr>
<td>EEL 616</td>
<td>INSTRUCTION IN SCIENCE (4)</td>
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<td>EEL 617</td>
<td>INSTRUCTION IN MUSIC (4)</td>
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<td>Refinement of skills related to program development, methods of teaching, selection of materials and review of research.</td>
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<td>EEL 618</td>
<td>INSTRUCTION IN ART (4)</td>
<td>F</td>
<td>Refinement of skills related to program development, methods of teaching, selection of materials and review of research.</td>
</tr>
<tr>
<td>EEL 619</td>
<td>INSTRUCTION IN HEALTH AND PHYSICAL EDUCATION (4)</td>
<td>W</td>
<td>Refinement of skills related to program development, methods of teaching, selection of materials and review of research.</td>
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<tr>
<td>EEL 625</td>
<td>RESEARCH IN READING (3)</td>
<td>F</td>
<td>A course to study significant research in reading; research methodology; planning and research in reading.</td>
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<tr>
<td>EEL 626</td>
<td>PRACTICUM IN READING (4)</td>
<td>W</td>
<td>An analysis of reading difficulties through various teaching techniques and programs.</td>
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*(TO BE OFFERED FOR THE FIRST TIME IN 1973-74)*

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<tr>
<td>ECE 695</td>
<td>SUPERVISED FIELD EXPERIENCE IN EARLY CHILDHOOD EDUCATION (W,S)</td>
<td>Field work in educational institutions and organizations.</td>
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<tr>
<td>ECE 696</td>
<td>SEMINAR IN EARLY CHILDHOOD EDUCATION (3)</td>
<td>W</td>
<td>Advanced study of critical issues and problems in early childhood education.</td>
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<tr>
<td>ECE 697</td>
<td>WORKSHOP IN EARLY CHILDHOOD EDUCATION (3-5)</td>
<td></td>
<td>An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields.</td>
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EEL 628 – ORGANIZATION AND SUPERVISION OF READING PROGRAM (3) (F)
The organization and supervision of reading programs; problems of organization and supervision; continuity of school wide programs; emphasis on leadership responsibilities.

EEL 629 – CLINICAL PROCEDURES IN READING (4) (W)
Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting.

EEL 695 – SUPERVISED FIELD EXPERIENCE IN ELEMENTARY EDUCATION (5-15)
Field work in educational institutions and organizations.

EEL 696 – SEMINAR IN ELEMENTARY EDUCATION (3) (W)
Advanced study of critical issues and programs in later childhood education.

EEL 697 – WORKSHOP IN ELEMENTARY EDUCATION (3-5)
An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields.

HEALTH, PHYSICAL EDUCATION, RECREATION

Physical Education

PHE 305 – PHE 306 – PHE 307
An integrative study of scientific aspects of physical education. The course will cover segments of exercise physiology, kinesiology, evaluation and adapted physical education.

PHE 405 – SPECIAL TEACHING LABORATORY (5) (S)
Methodology in secondary school and elementary school physical education emphasizing learning theories and communicative skill with emphasis in the area of specialization.

PHE 406 – COACHING DUAL AND INDIVIDUAL SPORTS (5) (W)
A study of a variety of activities involving group effort with emphasis upon coaching principles and techniques.

PHE 407 – COACHING TEAM SPORTS (5) (F)
A study of a variety of team sports involving group effort with emphasis upon coaching principles and techniques.
PHE 408 — MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (5) (S)
An exploration of the fundamentals involved in early childhood movement experiences. Special attention is given to the relationships of movement to other academic work and to the acquisition of a sound base for future neuromuscular development.

PHE 409 — ANALYSIS OF SPORT (5) (F)
An in-depth study of the psychology, sociology and theory of sport. Analogies will be made to various activities.

Sections 411 - 412 are for men; sections 421 - 422 are for women. A laboratory experience directed towards developing competencies in a variety of skill areas. Subject matter will depend upon the background of the student.

PHE 415 — SCHOOL AND COMMUNITY RECREATION PROGRAMS (5) (SS)
A study of the organization, administration and activities of recreation covering school, community and camping programs.

PHE 416 — ATHLETIC INJURIES (5) (S)
A practical approach to the care and the prevention of athletic injuries common to physical education and athletics.

PHE 425 — STUDENT TEACHING (15) (S)
A practical laboratory experience under the supervision of practicing professionals.

PHE 496 — SEMINAR IN PHYSICAL EDUCATION (5)
A study of problems, issues and trends relating to special interest areas in physical education.

PHE 505 — CREATIVE WORKSHOP IN PHYSICAL EDUCATION (4) (Arranged)
A course designed to give students the opportunity to create materials and techniques for teaching elementary school physical education. Emphasis will be on items that have an effect on the child's overall educational development.

PHE 506 — PERCEPTUAL MOTOR LEARNING (4) (F)
An investigation of various approaches to perceptual learning experiences with application for physical education.

PHE 507 — CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION (4) (W)
A study of the sequential curriculum development in grades K through 12.

**PHE 508 – EVALUATION IN PHYSICAL EDUCATION (4) (F)**  
A study of various types of evaluative procedures in physical education. Statistical computation will be discussed as well as test development and the use of standardized tests.

**PHE 509 – HISTORY OF PHYSICAL EDUCATION (4) (S)**  
An analysis of the historical developments in physical education and their influence upon today’s programs.

**PHE 595 – INDIVIDUAL STUDY (1-5) (F,W,S)**  
A plan of study designed for individuals to work independently on physical education topics of their choice under the direction of a faculty member.

**PHE 695 – SUPERVISED FIELD EXPERIENCE (5-15) (Arranged)**  
A practical study pursued in an educational environment at the University, an agency, or a school approved by the faculty. Approval will be granted for the course upon submission of an acceptable proposal stating objectives and desired outcomes of such an experience.

**PHE 696 – SEMINAR IN PHYSICAL EDUCATION (3) (W)**  
A study of problems, issues and trends in physical education.

**PHE 697 – WORKSHOP IN PHYSICAL EDUCATION (3-5) (Arranged)**  
A course designed to give the students an opportunity to explore and develop new teaching methods and skills in developing physical education programs.

**PHE 698 – RESEARCH IN PHYSICAL EDUCATION (4) (Arranged)**  
An exploration and study of various research methods and their application to physical education.

**HEALTH**

**HED 405 – SPECIAL TEACHING LABORATORY HEALTH EDUCATION (5) (S)**  
Methodology in the teaching of health with special emphasis on approaches to today’s health problems.

**HED 406 – HEALTHFUL LIVING: PERSONAL (5) (S)**  
A discussion of those areas of health that pertain to the individual such as disease, mental illness, nutrition and reproduction.
HED 407 – HEALTHFUL LIVING: COMMUNITY (5)  (F)
A discussion of those areas of health dealing with society such as ecology and pollution.

HED 408 – SCHOOL PROGRAMS IN HEALTH EDUCATION (5)  (W, 1973)
A study of the various approaches and curriculum content that schools utilize in teaching health to their students.

HED 409 – SCHOOL HEALTH SERVICES (5)  (W)
An examination of various agencies and services available to local schools which may contribute to their health programs.

HED 415 – DRUG EDUCATION (5)  (W)
An in-depth study of the drug problem. The course will cover current drug education methods and will explore the various types of drugs and their effect upon people.

HED 416 – CRITICAL ISSUES IN HEALTH EDUCATION (5)  (S)
A study of those aspects of health which appear to be the most important to our society including legislative issues and public opinion.

HED 417 – PROBLEMS IN SCHOOL HEALTH EDUCATION (5)  (SS)
A study of problems in school health education which affect curriculum, subject matter and educational outcomes.

HED 418 – INDEPENDENT STUDY (5)  (W, S, SS)
A program designed to give individual students an opportunity to explore topics of interest under close supervision of an instructor. Permission must be granted by both the instructor and the division chairman.

HED 425 – STUDENT TEACHING (15)  (S)
A practical laboratory experience under the supervision of practicing professionals.

HED 505 – CURRENT CONCEPTS IN COMMUNITY HEALTH (4)  (W)
A study of social backgrounds affecting attitudes and programs in community health.

HED 506 – HEALTH CURRICULUMS IN PUBLIC SCHOOLS (4)  (S)
A systematic study of health curriculums and their application to various age levels.

HED 507 – EDUCATIONAL APPROACHES TO HEALTH EDUCATION (4) (W)
An investigation of various modern techniques and tools for teaching health education to children in the elementary grades.

HED 595 – INDIVIDUAL STUDY (1-5) (F,W,S)
A plan of study designed for individuals to work independently on health education topics of their choice under the direction of faculty member.

HED 695 – SUPERVISED FIELD EXPERIENCE (5-15) (Arranged)
A practical study pursued in an educational environment at a university, agency or school approved by the faculty. Approval will be granted for the course upon submission of an acceptable proposal stating objectives and desired outcomes of such an experience.

HED 696 – SEMINAR IN HEALTH EDUCATION (3) (S)
A study of problems, issues and trends in health education.

HED 697 – CREATIVE WORKSHOP IN HEALTH EDUCATION (3-5) (Arranged)
A course designed to help students create materials and techniques that will aid them in conveying modern health concepts to their students.

HED 698 – RESEARCH IN HEALTH EDUCATION (3-5) (Arranged)
An exploration and study of various research methods and their application to health education.

SECONDARY EDUCATION

EDS 405 – SPECIAL TEACHING LABORATORY: ENGLISH (5) (F)
Development of instructional skills, techniques, and strategies for teaching English in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 406 – SPECIAL TEACHING LABORATORY, MATHEMATICS (5) (W,S)
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.

EDS 407 – SPECIAL TEACHING LABORATORY: MODERN LANGUAGES (5) (W,S)
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.

EDS 408 – SPECIAL TEACHING LABORATORY: SCIENCE (5) (W,S) Development of instructional skills, techniques, and strategies for teaching biological and physical sciences in the junior and senior high schools. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 409 – SPECIAL TEACHING LABORATORY: SOCIAL STUDIES (5)(W,S) Development of instructional skills, techniques, and strategies for teaching social studies in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 425 – STUDENT TEACHING (15) (S,SS) Supervised teaching in a junior or senior high school. Prerequisites: EDU 305, EDU 311, EDU 312, the appropriate Special Teaching Laboratory, and two-thirds of the course work required in the student’s teaching field.

EDS 595 – INDIVIDUAL STUDY (1-5) (F,W,S,SS) The student plans and carries out an independent study project under direction. Prerequisites: Consent of chairman of the division.

EDS 605 – TEACHING ART IN THE SECONDARY SCHOOL (4) (F) Analysis of methods, programs, and materials for teaching art in the junior and senior high school and development of teaching skills.

EDS 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 material and techniques for teaching reading skills and assisting students to overcome reading deficiencies. Special attention to reading problems of students in the specific subject areas. For students who are not majoring in reading.

EDS 607 – TEACHING LITERATURE IN THE SECONDARY SCHOOL (4) (S) Exploration of the nature of literature and the literary experience including an examination of several critical approaches to reading literature. Acquisition of skills and techniques to help students. Special emphasis on current adolescent literature and the development of literature units to meet special needs of students.

EDS 608 – COMMUNICATION THROUGH NON-PRINT MEDIA (4) (S) Development of a rationale for teaching non-print media both as
supportive of the literature and language programs and as art forms with unique modes of expression. Acquisition of technical skills needed to integrate non-print media into classroom instruction. Special emphasis on creating individual projects.

**EDS 609 — TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (4)**

Analysis of methods, programs, and materials for teaching mathematics in the junior and senior high school and development of teaching skills.

**EDS 615 — TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL (4)**

Analysis of methods, programs, and materials for teaching modern languages in the junior and senior high school and development of teaching skills.

**EDS 616 — TEACHING MUSIC IN THE SECONDARY SCHOOL (4)**

Analysis of methods, programs, and materials for teaching music in the junior and senior high school and development of teaching skills.

**EDS 617 — TEACHING BIOLOGICAL SCIENCES IN THE SECONDARY SCHOOL (4)**

Analysis of methods, programs and materials for teaching the biological sciences in the junior and senior high school and development of teaching skills.

**EDS 618 — TEACHING PHYSICAL SCIENCES IN THE SECONDARY SCHOOL (4)**

Analysis of methods, programs, and materials for teaching the physical sciences in the junior and senior high school and development of teaching skills.

**EDS 619 — TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (4)**

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)**

Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.
EDS 415 – SPECIAL TEACHING LABORATORY: SPEECH (5)
Development of instructional skills, techniques, and strategies for teaching speech in the junior and senior high school. For students of speech and theatre. Prerequisite: EDU 305, EDU 311, and EDU 312.

EDS 626 – TEACHING MODERN GRAMMAR AND USAGE IN THE SECONDARY SCHOOL (4)
Development of a rationale for teaching grammar. Acquisition of linguistic skills needed for the study of language. Emphasis on the examination of several grammars and the problems of teaching them in the English classroom. Special attention to usage and the larger problem of dialectology as it relates to written and oral English. Prerequisite: At least one course in Linguistics or consent of instructor.

EDS 627 – TEACHING COMPOSITION IN THE SECONDARY SCHOOL (4)
Examination of several rhetorics in order to develop theories of composition. Acquisition of skills necessary to identify writing problems, to prepare prewriting activities, and to evaluate written composition. Special emphasis on developing a systematic approach to teaching composition.

EDS 628 – RESEARCH IN SECONDARY EDUCATION (4)
Examination and evaluation of research studies in secondary education. Prerequisite: At least one course in research methods or equivalent competency. Determination of equivalent competency will be made by the instructor.

EDS 695 – SUPERVISED FIELD EXPERIENCE (5-15)
Field work in an educational institution or organization. Prerequisite: Consent of chairman of the division.

EDS 696 – SEMINAR IN SECONDARY EDUCATION (3)
Analysis of selected problems in secondary education.

EDS 697 – WORKSHOP IN SECONDARY EDUCATION (3-5)
Study of specific problems in secondary education. Prerequisite: Consent of instructor.

SPECIAL EDUCATION

EEC 305 – PROFESSIONAL PROBLEMS IN SPECIAL EDUCATION (5) (W,SS)
Introduction to professional problems in special education, including
historical developments, current and emerging professional issues, and service delivery systems. Field experiences included.

**EEC 306 – PSYCHO-EDUCATIONAL PROBLEMS OF EXCEPTIONAL CHILDREN (5)**  
(F,SS)  
Introduction to the learning and adjustment problems of exceptional children. Topics to be covered include traditional categorical definitions of exceptional children, theories of etiology, general learning and behavioral characteristics, and instructional goals and curriculum plans for the full range of exceptionalities. Field experience included.

**EEC 307 – ACADEMIC SKILLS FOR EXCEPTIONAL CHILDREN I (5)**  
(F,W,S)  
Seminar and laboratory experiences designed to develop elementary topics, concepts and skills in diagnostic and remedial reading and mathematics for use with exceptional children. Development of concepts and skills in classroom assessment and diagnostic procedures as well as remedial planning.

**EEC 425 – STUDENT TEACHING (10)**  
(S)  
Supervised field experience in teaching exceptional children.

**EEC 505 – EDUCATIONAL PLANNING FOR THE MENTALLY RETARDED (5)**  
(W,SS)  
Seminar and supervised laboratory experiences for the teacher of the mentally retarded child, designed to develop skills in the assessment of learning potential, general curriculum development and educational planning, special instructional techniques and total life planning.

**EEC 506 – EDUCATIONAL PLANNING FOR CHILDREN WITH LEARNING DISABILITIES (5)**  
(W,SS)  
Seminar and supervised laboratory experience designed to develop concepts and skills in the assessment of children with learning disabilities, curriculum development and educational planning, special instructional techniques and total life planning.

**EEC 507 – EDUCATIONAL PLANNING FOR CHILDREN WITH BEHAVIOR DISORDERS (5)**  
(W,SS)  
Seminar and laboratory experience designed to develop concepts and skills in the assessment of the emotionally or socially disturbed child, curriculum development and educational planning, special instructional techniques and total life planning.
EEC 508 – ACADEMIC SKILLS FOR EXCEPTIONAL CHILDREN II (5) (W,S)
Seminar and laboratory experiences designed to develop advanced concepts and skills in diagnostic and remedial reading and mathematics with exceptional children and youth.

EEC 511 – BEHAVIORAL APPROACHES TO CLASSROOM LEARNING I (5) (W,S,SS)
Seminar and laboratory experiences designed to develop concepts and skills for building and modifying the social and academic behavior of exceptional children. Topics covered include precision teaching methodology, behavior modification techniques for classroom use, and the functional analysis of behavior as it relates to education and classroom learning.

EEC 512 – BEHAVIORAL APPROACHES TO CLASSROOM LEARNING II (5) (W,S,SS)
Seminar and laboratory experiences to develop concepts and skills necessary for the management and maintenance of classroom behavior. Topics to be covered include an extension of precision teaching methodology, knowledge of classroom management procedures including the socially engineered classroom, token economy systems, group and individual contingency management and contracting, record keeping, use of individualized educational plans, interviewing and conferencing skills with parents.

EEC 595 – INDIVIDUAL STUDY IN SPECIAL EDUCATION (5-10) (F,W,S,SS)
Individual conference course on topics of special interest to students, providing directed reading, discussion and research possibilities.

EEC 605 – ORGANIZATION AND ADMINISTRATION OF SPECIAL EDUCATION PROGRAMS (5) (S)
Development of concepts and skills in organizing, administering and supervision of service programs in special education; philosophical and theoretical bases for role and service models; ethical and legal issues; evaluative criteria and procedures.

EEC 606 – RESEARCH IN SPECIAL EDUCATION (1-5) (F,W,S)
Development of research and evaluation skills in the student’s field of specialization. Participation in data collection and analysis in intervention programs in special education.

EEC 607 – CURRICULUM DEVELOPMENT IN SPECIAL EDUCATION (5) (W)
Topics relevant to the conceptualization and development of
curricula for exceptional children. Modules allow students to pursue special areas of interest. Field experiences included.

**EEC 695 – SUPERVISED FIELD EXPERIENCE IN SPECIAL EDUCATION (5-15)**
(F,W,S,SS)
Internship placements in a variety of field settings depending on student’s needs and interests, with attention to collaboration between students in different areas of specialization. Joint University and field supervision provided through individual conferences and continuing seminars.

**EEC 696 – SEMINAR IN SPECIAL EDUCATION (5)**
(F,W,S,SS)
Special topics related to the education of exceptional children.

**PUPIL SERVICES**

**PPS 505 – PROFESSIONAL PROBLEMS IN PUPIL PERSONNEL SERVICES (5)**
(F,SS)
Introduction to professional problems in counseling and school psychology, including the historical development of the professions, current legal and ethical issues, and consideration of role and function. Field experiences included.

**PPS 506 – INTRODUCTION TO COUNSELING (5)**
(W,SS)
Development of theoretical concepts for counseling and the counseling relationship. Traditional models for the counseling interview will be examined and discussed. A laboratory experience in counseling will be provided to develop beginning skills in counseling.

**PPS 507 – HUMAN INTERACTION I: PERSONAL GROWTH LABORATORY (5)**
(W,SS)
Experience designed to increase self-awareness of social impact, to increase sensitivity to the feelings and attitudes of others, to improve interpersonal communication and increase understanding of the change-learning process. Study and analysis of class-group participation as well as other functional social groups.

**PPS 508 – EDUCATIONAL AND VOCATIONAL GUIDANCE (5)**
(S)
Development of concepts and skills for assisting individuals in making choices about education, vocations and careers. Supervised experience in counseling, making job analyses, reviewing systems for classifying materials, studying occupational information programs and critically analyzing occupational materials from commercial publishers and professional organizations.

**PPS 601 – COUNSELING AND BEHAVIORAL CHANGE, I (5)**
(F,SS)
Theory and practice of group behavior modification with an
emphasis upon problems typically faced by the classroom teacher (i.e. reinforcing attending and study behavior, reducing disruptive behavior, etc.). An elaboration of social learning theory and the development of skills in the management and control of group behavior, particularly within the classroom context.

PPS 602 — COUNSELING AND BEHAVIORAL CHANGE, II (5) (W)
Theory and practice of group behavior modification with an emphasis upon problems typically faced by the classroom teacher (i.e. reinforcing attending and study behavior, reducing disruptive behavior, etc.). An elaboration of social learning theory and the development of skills in the management and control of group behavior, particularly within the classroom context.

PPS 603 — COUNSELING AND BEHAVIORAL CHANGE, III (5) (S,SS)
In-depth coverage of behavioral approaches to consultation with parents, teachers, and community resources. Specific problems encountered in counseling parents of exceptional children as well as the problems of coping with family life styles across racial and ethnic groups. Laboratory supervision will develop skills in consultation with parents and teachers as instrumental agents in the behavioral change process.

PPS 611 — HUMAN INTERACTION, II: INTERPERSONAL CHANGE AND GROUP PROCESS LABORATORY (5) (S,SS)
Theories of small group development, growth and change. Development of action skills in diagnosis and intervention in small groups. Understanding of communication levels and processes, group problem-solving, leadership and authority and consequences of inter-group competition. Experiential learning through small group participation and leadership with student peer groups and groups of children and adolescents. Special emphasis is given to problems of inter-cultural and inter-racial conflict.

PPS 612 — HUMAN INTERACTION, III: ORGANIZATIONAL CONSULTATION (5) (F)
Theories and approaches to organizational development and change, with a particular focus on the public schools. 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.

PPS 621 — ASSESSMENT OF BEHAVIOR, I: SOCIAL (5) (F,SS)
Theory and current methodology for the assessment of the social and emotional behavior of children and adolescents with a particular
focus on the educational setting. Laboratory supervision in observation of teacher-child interactions, precision recording of behaviors, behavior sampling procedures, role playing, simulation, sociometrics and application of interview data.

PPS 622 – ASSESSMENT OF BEHAVIOR, II: INTELLECTUAL (5)  (W,SS)
Problems in the assessment of mental retardation, giftedness and creativity. Laboratory supervision will develop concepts and skills with the traditional standardized intelligence tests and measures of social adaptability. In addition, trainees will develop skills with alternate means of assessment through observation, interviewing, the use of criterion-referenced instruments, report writing and teacher consultation.

PPS 623 – ASSESSMENT OF BEHAVIOR, III: SENSORY–MOTOR–
PERCEPTUAL–LANGUAGE (5)   (S,SS)
Development of concepts and skills for assessing children with sensory, motor, perceptual, and language disabilities. Laboratory emphasis is upon developing skills in summarizing assessment results in meaningful ways for teachers and parents, and helping teachers expedite decisions on curricular and remedial procedures.

PPS 625 – ORGANIZATION, ADMINISTRATION AND SUPERVISION OF
PUPIL PERSONNEL SERVICES (5)   (S)
Development of concepts and skills in organizing, administering and supervising service programs in counseling, school psychology, and other areas of pupil personnel. Philosophical and theoretical bases for role and service models; ethical and legal issues; evaluative criteria and procedures (Not to be offered until 1973-74.)

PPS 626 – RESEARCH IN PUPIL PERSONNEL SERVICES (1-5)   (F,W,S)
Development of research or evaluation skills in student’s field of specialization.

PPS 695 – SUPERVISED FIELD EXPERIENCE IN PUPIL
PERSONNEL SERVICES (5-15)
Internship placements in counseling, school psychology and other pupil personnel areas according to student’s needs and interests, with attention to collaboration between students in different areas of specialization. Joint university and field supervision provided through individual conferences and continuing seminars. (Not to be offered until 1973-74.)

PPS 696 – SEMINAR IN PUPIL PERSONNEL SERVICES (5)   (F,W,S,SS)
Special topics and problems in counseling, school psychology and other areas of pupil personnel service.
PPS 698 – INDIVIDUAL STUDY IN PUPIL PERSONNEL SERVICES (5-10)  
(F,W,S,SS)

Individual conference course on topics of special interest to students, providing directed reading, discussion and research possibilities.

VOCATIONAL, TECHNICAL AND ADULT EDUCATION

EVO 305 – FOUNDATIONS OF VOCATIONAL EDUCATION (5)  
(F,S)

Examines the principles, practices and philosophy of vocational education. Includes historical development, goals, factors influencing vocational education, vocational legislation, organization and governance, program areas, labor economics and manpower needs, influence of technology, characteristics of learners, and major issues in vocational education.

EVO 306 – COURSE PLANNING IN VOCATIONAL AND TECHNICAL EDUCATION (5)  
(W,S)

Planning and organizing bodies of knowledge related to occupations into instructional content, strategies, processes, objectives, instructional materials, and learning activities in all areas of vocational education. Establishes philosophical bases and methodology for increasing the efficiency, effectiveness, and relevancy of what is taught in each student’s area of specialization.

EVO 308 – VOCATIONAL AND TECHNICAL EDUCATION LABORATORY MANAGEMENT AND SAFETY (5)  
(Arranged)

Principles and procedures of planning, organizing, and controlling student personnel and laboratory conditions; development of maintenance and safety programs, schedules and records, and the selection and purchase of equipment and materials.

EVO 405 – INSTRUCTIONAL MEDIA FOR VOCATIONAL AND TECHNICAL TEACHING (5)  
(W)

The design and development of special written, visual, and three-dimensional instructional aids and the articulation of commercial media for vocational teaching. Develops operational skills in visual, audio, and audiovisual equipment, including VTR and the management of media equipment and supplies. Emphasizes laboratory experiences.

EVO 406 – SPECIAL TEACHING LABORATORY (5)  
(W,S)

Mini-teaching experiences within areas of specialization in selected urban and suburban schools. Includes planning, teaching, and evaluating the teaching act in relation to selected situations, problems, strategies, and conditions. Experiences are designed to
build teaching proficiency under varied conditions, directed by a master teacher and university personnel. Prerequisites: EDU 311 and 312, General Teaching Laboratory I, II.

EVO 407 – SUPERVISED OCCUPATIONAL EXPERIENCE (5-15) (W,S)
An on-the-job field experience in industry, business, or a government agency in an occupation which the student is preparing to teach; cooperative placement and supervision by the University and the employer. Enrollment may be repeated for maximum of 45 quarter hours (40 clock hours work for each quarter hour credit).

EVO 408 – INTRODUCTION TO VOCATIONAL EDUCATION ADMINISTRATION (5) (W)
Defines the principles and practices of local administration, its organization, authority, programs, operations, policy formulation, methods of implementing policy, delegation of responsibility and the decision making process.

EVO 409 – TEACHING CAREER RELATED ACTIVITIES K-6 (5) (W,S)
Emphasizes articulation of career concepts and activities with regular studies. Provides classroom and laboratory experiences in identifying, planning, developing, and teaching activities representative of career clusters. Develops knowledge and skill in basic tool and material manipulation for various occupations. Includes classroom safety.

EVO 425 – STUDENT TEACHING (15) (Arranged)
Students build operational teaching capability in planned practice teaching situations in an elementary, junior high, senior high, junior college, or other appropriate educational setting. Students are supervised by master teachers and university vocational and technical education personnel. Participation in a teaching seminar is required to analyze and solve teaching problems as encountered. Prerequisite: EVO 406 Special Teaching Laboratory.

EVO 505 – OCCUPATIONAL EXPERIENCE FOR VOCATIONAL AND TECHNICAL TEACHING (5-45) (S,SS)
A maximum of 45 quarter hours credit will be recorded for past experience as competency in an occupation which the student is preparing to teach. Credit will be awarded only through written and performance examinations, evaluation of competency through approved licenses, program completion certificates and/or other supporting information determined by the division chairman. Student must apply and submit evidence for review a minimum of six months prior to the anticipated date of graduation.
EVO 506 – TRENDS AND ISSUES IN VOCATIONAL AND TECHNICAL EDUCATION (4)  (F,SS)
Explores significant past and current thrusts in vocational education. Examines philosophies, social and legislative bases, and current program models. Develops understanding of current practices and emphases in the field of vocational and technical education.

EVO 507 – CURRICULUM DEVELOPMENT IN VOCATIONAL AND TECHNICAL EDUCATION (4)  (W,SS)
The assessment of current curricula, identification of needs, formulation of goals, structuring a body of knowledge, writing objectives, applying evaluation criteria, establishing course designs, generating teaching and learning activities, identifying hardware and software, and producing a curriculum guide. Designed to increase operational efficiency, effectiveness and relevancy of specific vocational, technical, and adult courses and curricula.

EVO 508 – PROGRAM PLANNING IN VOCATIONAL AND TECHNICAL EDUCATION (4)  (F)
Assessment of current programs, utilization of community, business, and industrial authorities and information to identify economic conditions, manpower needs, student needs for career development. Activities include formulating program goals, structuring programs, writing program objectives, developing program evaluation criteria, determining administrative organization and procedure. Recommended for administrators, coordinators, and vocational curriculum specialists.

EVO 509 – TECHNICAL EDUCATION IN AMERICAN SOCIETY (4)  (SS)
Examines the current nature and status of technical education programs, their scientific bases, institutional structures, and educational products. The contributions of the technical institute, the junior college, the military, and industry are discussed in relation to current technical preparation goals and programs.

EVO 515 – INSTRUCTIONAL PROCESSES IN VOCATIONAL AND TECHNICAL EDUCATION (4)  (Arranged)
Basic techniques and procedures in lesson preparation, teaching classroom and laboratory activities, assessing student performances, and managing classrooms and laboratories. Permission of program adviser is required.

EVO 516 – COOPERATIVE VOCATIONAL EDUCATION PROGRAMS (4)  (S)
An analysis of philosophy, objectives, and organization of
established and emerging cooperative programs in vocational and technical education. Strong emphasis on coordination techniques and principles, student selection practices, labor laws, providing related instruction, and program evaluation.

EVO 517 – SUPERVISION AND COORDINATION OF VOCATIONAL EDUCATION PROGRAMS (4) (W)
Defines responsibilities of program coordinators and supervisors of vocational and technical programs at the secondary and adult levels. Principles of planning, organizing and operating programs, including techniques of staff supervision, are stressed. Provides practice in the handling of human relations elements of supervision and program coordination.

EVO 518 – EMERGING EMPHASES IN CAREER EDUCATION (4) (W,S,SS)
Examines the needs, forces, directions, and conceptual structures of developing K-14 career education programs. Examines and recommends ways in which career education can be developed and integrated into current educational programs. This course is designed to establish philosophical and curricular referents for all elementary and secondary education teachers and administrators who anticipate roles in career education.

EVO 526 – COMMUNITY RELATIONS AND RESOURCES FOR VOCATIONAL AND TECHNICAL EDUCATION (4)
Analyzes community resources, organization and coordination of advisory and planning groups for effective vocational and technical education; human relations factors in formulating and implementing school policies and programs.

EVO 527 – EVALUATING EDUCATIONAL PROGRESS IN VOCATIONAL AND TECHNICAL EDUCATION (4)
The application of elementary testing theory to vocational and technical teaching; construction and use of performance and verbal tests; examination and use of published tests in vocational and technical teaching, self-assessment of teaching performance. Permission of program adviser required.

EVO 528 – VOCATIONAL EDUCATION EQUIPMENT AND FACILITIES PLANNING (4)
Researching, designing and engineering plans for laboratory facilities and equipment for all areas of vocational education. Planning for space utilization, environmental conditions, coordination of laboratory equipment, and purchasing of materials and supplies.
EVO 595 – INDIVIDUAL STUDY (1-5) (F,W,S,SS)
Specialized intensive study in areas of interest to the student, subject to approval of program adviser.

EVO 597 – WORKSHOP IN VOCATIONAL EDUCATION (3-15) (SS)
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 vocational and technical education.

EVO 605 – INDUSTRIAL TECHNOLOGY (4) (F,SS)
A critical analysis and defining of industry, identification of industrial technologies, comparisons of educational and industrial arts goals to program practice, survey of industrial arts and vocational education legislation and program developments. Development of a rationale and structure for K-12 and teacher education programs in industrial arts.

EVO 606 – ADMINISTRATION OF LOCAL VOCATIONAL EDUCATION PROGRAMS (4) (F,W)
The principles and practices of local administration, its organization, authority, programs operations, responsibilities, and the decision making process. Examines policy formulation and implementation, fiscal control, state reports, staff utilization, liaison with cooperating agencies, program development, evaluation, public relations and communications systems for efficient administration.

EVO 616 – RESEARCH IN VOCATIONAL EDUCATION (4) (S,SS)
Systematic identification and analysis of problems in vocational and technical education; interpreting, and translating research findings into curricular and teaching practice in vocational and technical education.

EVO 695 – SUPERVISED FIELD EXPERIENCE (4-8) (W,S)
A planned professional field experience in a school or district for students interested in becoming master teachers, administrators, supervisors, or other shifts in responsibility. Includes a problems seminar for analyzing and solving problems as they are encountered.

EVO 696 – SEMINAR IN VOCATIONAL 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 vocational and technical education.

EIA 305 – CONSTRUCTION TECHNOLOGY (5) (S)
Laboratory experiences of basic production, management and
personnel practices as they relate to construction systems and projects.

EIA 306 – MANUFACTURING TECHNOLOGY (5) (S)
Laboratory experiences of basic manufacturing, management, personnel, and production practices as they relate to products and processes. Safety procedures.

EIA 307 – COMMUNICATIONS MEDIA AND PROCESSES (5) (W)
Laboratory experiences in managing and producing graphic, radio, television, recording, and cinema media and processes.

EIA 405 – ORGANIZATIONAL AND PERSONNEL PRACTICES (5) (S)
Analysis of organizational, management and labor related activities and structures in selected industries. Role-playing experiences in human relations skills, contract negotiations, selected management practices, and related personnel practices.

EIA 406 – INDUSTRIAL RESEARCH AND DEVELOPMENT (5) (F)
Laboratory experiences in formulating, researching, designing, engineering, and developing prototypes of constructed and manufactured products and processes. Prerequisite: EIA 305 Construction Technology of EIA 306 Manufacturing Technology.

EIA 407 – MATERIALS PROCESSING AND FABRICATING (5) (W)
Laboratory experience in separating, forming, and combining techniques using a variety of industrial materials and processes and the fabrication of components into assemblies and finished products. Safety procedures. Prerequisite: EIA 305 Construction Technology or EIA 306 Manufacturing Technology.

EIA 408 – POWER SYSTEMS (5) (F)
Laboratory experiences in generation, conversion, transmission, control, and utilization of electrical and mechanical power and the diagnosis, correction, and testing of electrical and mechanical equipment and systems.

EAD 507 – PRINCIPLES AND PRACTICES OF ADULT EDUCATION (4) (F)
Examines the development of adult education in the public schools and the community. Identifies the principles, practices, and characteristics of adult education; i.e., financing of adult programs, characteristics of adult learners, and typical adult education curricula.
EAD 508 – ORGANIZATION AND ADMINISTRATION OF ADULT EDUCATION (4) (W)
Principles and practices of administering, staffing, organizing and implementing adult education programs and institutions. Examines administrative responsibilities, finance, staff recruitment, directing, instructional and operational phases of adult programs.

EAD 519 – PROGRAM PLANNING IN ADULT EDUCATION (4) (W)
Assessment of current programs, utilization of community, business, and industrial authorities and information to identify economic conditions, manpower needs, student needs for career development. Activities include formulating program goals, structuring programs, writing program objectives, developing program evaluation criteria, determining administrative organization and procedure. Recommended for administrators, coordinators, and adult curriculum specialists.

EAD 525 – WORKSHOP IN ADULT EDUCATION (3-15) (SS)
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 615 – RESEARCH IN ADULT EDUCATION (4) (S)
Systematic identification and analysis of problems in adult education; reviewing, interpreting, and translating research findings into curricular and teaching practice in adult education.

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.

EDUCATIONAL ADMINISTRATION

EDA 605 – THE ORGANIZATION AND OPERATION OF PUBLIC SCHOOL SYSTEMS (4) (F,SS)
Examines the public school system as a complex formal organization with particular attention to the dynamics of community-school inter-actions, goal clarification and program evaluation, resources procurement and allocation, general administrative provisions, and the legal context within which the school system operates.

EDA 606 – THE ADMINISTRATION OF AN ELEMENTARY SCHOOL (4) (S)
Emphasizes the development of competences required to assume the
role of principal of an elementary school, with particular attention to the urban setting. Prerequisite: 605.

EDA 607 — THE ADMINISTRATION OF A SECONDARY SCHOOL (4) (W)
Emphasizes the development of competences required to assume the role of principal of a secondary school, with particular attention to the urban setting. Prerequisite: 605.

EDA 608 — SUPERVISION IN EDUCATION (4) (F, SS)
Examines supervision as a function and the supervisor as a role in urban school systems, with particular attention to the development of leadership skills required to support and facilitate individual teacher and faculty group change.

EDA 609 — CURRICULUM DEVELOPMENT AND EVALUATION (4) (W)
Deals with philosophic and empirical bases upon which to develop the overall curriculum for a school system, kindergarten through the junior college, and procedures to evaluate its effectiveness.

EDA 615 — CURRICULUM IMPROVEMENT PROGRAMS IN URBAN SCHOOL SYSTEMS (4) (S)
Describes and critiques the procedures and mechanisms used in urban school systems to provide for the continuing improvement of or change in the curriculum. Prerequisite: 605.

EDA 616 — STAFF DEVELOPMENT PROGRAMS IN URBAN SCHOOL SYSTEMS (4)
Describes and critiques the procedures and mechanisms used in urban school systems to provide for the continuing professional development of teachers and other professional staff members. Prerequisite: 605. (Not to be offered until 1973-74.)

EDA 617 — EMERGING DESIGN FOR SCHOOL ORGANIZATION AND STAFF UTILIZATION (4) (SS)
Examines critically currently advocated plans for organizing school systems and individual schools and for specifying and utilizing staff which depart markedly from typical practice. Prerequisite: 605.

EDA 695 — SUPERVISED FIELD EXPERIENCE (3-5) (S)
Provides an opportunity to develop and refine administrative and supervisory skills by undertaking an arranged field-based assignment. Prerequisite: 605, 606 or 607, 608.
EDA 696 – SEMINAR IN SCHOOL ADMINISTRATION/SUPERVISION (3) (SS)
Provides for the in-depth study of selected issues and developments in school administration and supervision, including an examination of the research literature related to them. Registration by consent of instructor.

EDA 697 – WORKSHOP IN SCHOOL ADMINISTRATION/SUPERVISION (3-5) (Arranged)
Offers an opportunity for experienced school administrators and supervisors to participate in a problem oriented workshop. Offered by arrangement.

EDA 698 – INDIVIDUAL STUDY IN SCHOOL ADMINISTRATION/SUPERVISION (1-5) (W,S)
For advanced students wishing to undertake an individual project directly related to school administration or supervision. Offered by arrangement.
School of Health and Social Services

Dean Vandon E. White
Generalized Program of Studies for CRIMINAL JUSTICE MAJORS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements:

**Required Courses:** None

**Recommended Courses:** (a) All students intending to enroll in any of the several tracks of the Criminal Justice Major are urged to complete an Associate in Arts degree, Associate in Science degree or equivalent academic program in criminal justice, police science, criminalistics, criminology, corrections or a similarly related field prior to enrollment at Florida International. Such students will receive complete recognition of their degree and credits. No deficiency requirements will be imposed by the University (b) Students are encouraged to take coursework at the lower division toward completion of the requirements for a minor (section 3 below, all Criminal Justice Major tracks except Criminalistics-Chemistry). (c) Criminalistics-Chemistry Track students are urged to take coursework in science and mathematics as follows:

- General Chemistry or General Chemistry with Qualitative Analysis 10-12 semester hours
- Organic Chemistry 8 semester hours
- General Physics with Calculus 12 semester hours
- Mathematics (including Calculus I & II) 14 semester hours

Failure of the Criminalistic-Chemistry Track student to complete these courses in the lower division may necessitate the utilization of Florida International University electives and/or lengthening the degree program.

**Florida International University Generalized Program of Study:**

Four tracks or areas of concentration are planned for the Criminal Justice Major:
- Police Administration
- Correctional Administration
- Criminal Justice Administration
- Criminalistics-Chemistry (Degree granted by Chemistry Department)
The Police Administration Track

1. Criminal Justice Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 301</td>
<td>THE NATURE AND CAUSES OF CRIME</td>
<td>5</td>
</tr>
<tr>
<td>CRJ 302</td>
<td>THE ROLES OF LAW ENFORCEMENT</td>
<td>5</td>
</tr>
<tr>
<td>CRJ 303</td>
<td>PROSECUTORIAL AND JUDICIAL POLICY MAKING</td>
<td>5</td>
</tr>
<tr>
<td>CRJ 001</td>
<td>CORRECTIONAL PHILOSOPHY, THEORY AND PRACTICE</td>
<td>5</td>
</tr>
<tr>
<td>CRJ 402</td>
<td>METHODS OF CRIMINAL JUSTICE RESEARCH</td>
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<tr>
<td>CRJ 403</td>
<td>METHODS OF INSTITUTIONAL CHANGE</td>
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2. Police Administration Concentration

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<tr>
<td>CRJ 311</td>
<td>INSTITUTIONAL ORGANIZATION AND ADMINISTRATION</td>
<td>5</td>
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<tr>
<td>CRJ 312</td>
<td>PERSONNEL SELECTION, DEVELOPMENT AND CONTROL</td>
<td>5</td>
</tr>
<tr>
<td>CRJ 313</td>
<td>PLANNING, BUDGETING AND FINANCIAL ADMINISTRATION</td>
<td>5</td>
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</table>

3. Minor — Consists of 20 credits in one of the following fields of study:
   - Anthropology
   - Psychology
   - Economics
   - Sociology
   - Political Science
   - Social Work

   **Total 20 credits**

4. Electives — 25 credits with emphasis on the following suggested fields of study:
   - Criminal Justice — especially:
     | Course Code | Course Title                                      | Credits |
     |-------------|--------------------------------------------------|---------|
     | CRJ 430     | CRIMINAL JUSTICE AND THE CONSTITUTION             | 5       |
     | CRJ 440     | FIELD WORK & SPECIAL PROJECTS                     | 1-15    |

   - Business and Management
   - History — especially those courses related to the development of social problems
   - Behavioral Sciences

   **Total 25 credits**

   **TOTAL 90 credits**

The Corrections Administration Track

1. Criminal Justice Core

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<tr>
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<tr>
<td>CRJ 303</td>
<td>PROSECUTORIAL AND JUDICIAL POLICY MAKING</td>
<td>5</td>
</tr>
<tr>
<td>CRJ 401</td>
<td>CORRECTIONAL PHILOSOPHY, THEORY</td>
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</tbody>
</table>
AND PRACTICE 5
CRJ 402 - METHODS OF CRIMINAL JUSTICE RESEARCH 5
CRJ 403 - METHODS OF INSTITUTIONAL CHANGE 5

2. Corrections Concentration
CRJ 311 - INSTITUTIONAL ORGANIZATION AND ADMINISTRATION 5
CRJ 312 - PERSONNEL SELECTION, DEVELOPMENT AND CONTROL 5
CRJ 313 - PLANNING, BUDGETING AND FINANCIAL ADMINISTRATION 5
CRJ 321 - DELINQUENCY PREVENTION 5
CRJ 421 - PROBATION AND PAROLE 5
CRJ 422 - ADMINISTRATION OF CORRECTIONAL INSTITUTIONS 5

3. Minor — Consists of 20 credits in SOCIAL WORK 20

4. Electives — 10 credits from the following suggested fields of study:
   Criminal Justice — especially CRJ 430 Criminal Justice and the Constitution
   Business and Management — especially Business Law
   History — especially those courses related to the development of social problems
   Behavioral Sciences

<table>
<thead>
<tr>
<th>Field of Study</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Anthropology</td>
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<td>Psychology</td>
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<tr>
<td>Economics</td>
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<tr>
<td>Sociology</td>
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</table>

TOTAL 90

The Criminal Justice Administration Track

1. Criminal Justice Core
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

2. Area of Interest — A 20 credit requirement developed by the student and the academic advisor 20

3. Minor — Consists of 20 credits in one of the following fields of study:
   Anthropology Psychology
   Economics Sociology

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The Criminalistics – Chemistry Track

1. Criminalistics – Chemistry Core
   CHE 321 - THERMODYNAMICS 5
   CHE 322 - EQUILIBRIUM AND PROPERTIES OF SOLUTIONS 5
   CHE 325 - PHYSICAL CHEMISTRY LABORATORY 5
   CHE 306 - INSTRUMENTATION AND DESIGN 5
   CHE 495 - SENIOR SEMINAR 5
   TOTAL 25

2. Ten Credits of Upper Division Chemistry Coursework at least five of which are a laboratory course, may be selected from the following recommended courses:
   CHE 335 - ORGANIC QUALITATIVE ANALYSIS 10
   CHE 323 - QUANTUM MECHANICS AND QUANTUM CHEMISTRY
   CHE 405 - ADVANCED SPECTROSCOPY AND MOLECULAR STRUCTURE
   CHE 301/
   302 - ORGANIC CHEMISTRY
   CHE 506 - RADIO-CHEMISTRY AND NUCLEAR CHEMISTRY
   TOTAL 10

3. Ten Credits of Upper Division Biology Coursework
   TOTAL 10

4. Internship — A fifteen credit internship in the laboratory of a participating criminal justice agency.
   TOTAL 15

5. Criminal Justice Coursework
   TOTAL 15

6. Electives — Coursework in the behavior and political sciences is recommended.
   TOTAL 15

CRIMINAL JUSTICE

CRJ 300 — AN OVERVIEW OF CRIMINAL JUSTICE (3)  (F,W,S,SS)
   An overview of the agencies and processes involved in the
administration of criminal justice. Inter-relationships 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)
Social, cultural, behavioral, political and economic causitive factors in the development of crime. Psychological and sociological considerations involved in criminal behavior. The role of the legislature as policy maker in criminalizing conduct and the limits of the criminal sanction.

CRJ 302 – THE ROLES OF LAW ENFORCEMENT (5) (W)
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 – PROSECUTION AND JUDICIAL POLICY MAKING (5) (S)
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 appellate judiciary in criminal law and procedure.

CRJ 401 – CORRECTIONAL PHILOSOPHY,
THEORY AND PRACTICE (5) (F)
Appraisal of correctional methods utilized in the United States and other countries. Prisons, probation, parole work-release programs, half-way houses, community-based correction programs and other techniques are analyzed.

CRJ 402 – METHODS OF CRIMINAL JUSTICE
RESEARCH (5) (F)
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) (S)
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.

COURSES FOR 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 procedures. Cases and outside research reports are used for specific analysis.

CRJ 312 – PERSONNEL SELECTION, DEVELOPMENT AND CONTROL (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 of procedures, the determination of organizational priorities, and as techniques to initiate organizational change. Case studies are developed, presented and analyzed.

COURSES FOR CORRECTIONAL CONCENTRATION

CRJ 321 – DELINQUENCY PREVENTION (5) (W)

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.

GENERALIZED AND ELECTIVE COURSES

CRJ 395 – CONTEMPORARY ISSUES IN CRIMINAL JUSTICE (Variable)  (F,W,S,SS)
Forum for unusual or special course offerings focusing on contemporary issues in criminal justice.

CRJ 405 – ORGANIZED CRIME (3)  (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 to 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 (Variable)  (F,W,S,SS)
Extensive reading and analysis of appropriate literature under faculty supervisor.

CRJ 496 – INDEPENDENT RESEARCH (Variable)  (F,W,S,SS)
Individually selected program of supervised group of personal study related to a specific criminal justice issue. Normally the product will be a research paper suitable for publication.

CRJ 500 – DIRECTED RESEARCH (Variable)  (F,W,S,SS)
Generalized Program of Study
for
DIETETICS AND NUTRITION MAJORS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

This program is designed to meet the requirements of the American Dietetic Association for an undergraduate coordinated internship program.

Students enrolling without deficiencies in this program are expected to have completed work in general Chemistry, Organic Chemistry and basic Food Preparation as well as courses in Humanities, Social Studies, Language, Communications, Mathematics and Biological Sciences.

The courses contained herein are provisional and subject to change, and therefore do not constitute an agreement between the School and the student. The student should see his program advisor.

Florida International University Generalized Program of Study:

JUNIOR YEAR

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<th>FALL TERM</th>
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SENIOR YEAR

CREDITS

FALL TERM
NUT 400 - ADVANCED NUTRITION 5
NUT 401 - FOOD SCIENCE (OR ELECTIVE) 5
NUT 402 - COMMUNITY NUTRITION I 6*

16

WINTER TERM
NUT 403 - COMMUNITY NUTRITION II 9*
HRM 340 - HOTEL AND FOOD SERVICE EQUIPMENT
or
ACC 405 - MANAGEMENT ACCOUNTING 5
ELECTIVES 5

19

SPRING TERM
NUT 404 - SPECIAL PROBLEMS IN DIETETICS AND NUTRITION 3-9*
NUT 405 - SEMINAR IN DIETETICS & NUTRITION ELECTIVES 3-9*

18-20

*Indicates Clinical Component. Supervised clinical experiences will be in appropriate hospitals, school funding programs, and other community agencies.

DIETETICS AND NUTRITION

NUT 300 – NUTRITION AND CULTURE (3) (F)
Designed to give understanding of the nutrition of population groups of diverse cultural, regional and religious heritages.

NUT 301 – NUTRITION IN HEALTH AND DISEASE (9) (W)
Designed to teach students to adjust nutrition instruction and food intake to accommodate both medical treatments and previous nutrition history. Course includes supervised clinical experience in health care systems. Prerequisites: Competency in nutrition and health sciences.

NUT 302 – PERSONNEL MANAGEMENT FOR DIETETICS (5) (W)
Designed to help the dietetic student apply principles of management to the choice, supervision and evaluation of personnel employed by health delivery systems involved in nutrition care.

NUT 303 – MANAGEMENT OF DIETARY SYSTEMS (6) (W)
Designed to help the dietetic student understand management of
food service systems in terms of consumer needs, of care, and of economics, space, and professional facilities available. Course includes extensive observation and limited supervised clinical experience in a variety of food service systems. Prerequisites: Orientation to management and dietetics.

NUT 400 – ADVANCED NUTRITION (5) (F)
Provides in-depth study of nutrition in terms of impact of current nutrition research in today’s society. Prerequisites: Competencies in chemistry, physiology and nutrition.

NUT 401 – FOOD SCIENCE (5) (W)
Provides in-depth study of composition of foods and effects of preservation, transportation and technology as related to the individual consumer and the dietitian. Prerequisites: Competencies in chemistry and food preparation.

NUT 402 – COMMUNITY NUTRITION I (6) (W)
Provides study of health agencies in the community providing difficult components of nutrition care for various age groups. Includes extensive observation and limited supervised clinical experience in one or two closely allied agencies. Prerequisites: DIN 301, 302, 303 or equivalents.

NUT 403 – COMMUNITY NUTRITION II (9) (S)
Includes study and clinical experience in a variety of agencies to give the study in-depth understanding of nutrition care, and to demonstrate the inter-relationship of agencies. Includes clinical experience. Prerequisites: DIN 402 or equivalent.

NUT 404 – SPECIAL PROBLEMS IN DIETETICS AND NUTRITION (3 to 9) (F)
Designed to allow the advanced student to pursue in-depth a study of a nutrition problem on dietetic service allied to special areas of interest or immediate career goals. May or may not include clinical experience.

NUT 405 – SEMINAR IN DIETETICS AND NUTRITION (3 to 9) (F)
Designed for the dietetic student to share study and significant practical experiences with other students and faculty members. Prerequisites: DIN 403 or equivalent. Course may be repeated for up to 9 credit hours.

NUT 470 – MICROBIOLOGY (5) (F)
Relationship of microorganisms to evolution and higher organisms,
their functions and adaptive characteristics in disease and food infection.

**NUT 500 — INDIVIDUAL STUDY (5)**  
(F,W,S,)  
Opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum and teaching.

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**Generalized Program of Studies**  
for  
**HEALTH SCIENCE MAJORS**

**Lower Division Preparation**

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

**Required Courses:** Students are expected to have completed courses in the health sciences, physical sciences, social studies and the humanities.  
**Remarks:** This major is intended to prepare students to attend either a professional school (i.e.: medical, dental, podiatry, optometry, etc.) after graduation or to provide an opportunity for the student who has completed a lower division health program (i.e.: respiratory therapy, radiologic technology, dental hygiene, etc.) to obtain a baccalaureate degree. This major, therefore, provides students with an opportunity to complete a program of generalized study in the School of Health and Social Services.

The courses contained herein are provisional and subject to change, and therefore do not constitute an agreement between the School and the student. The student should see his program advisor.

**Florida International University Generalized Program of Study:**

**JUNIOR YEAR**  

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<td><strong>HSM 304</strong> - HEALTH &amp; SOCIAL SERVICE DELIVERY SYSTEMS</td>
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<td><strong>HSM 390</strong> - INDIVIDUAL STUDY</td>
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<td><strong>HSM 391</strong> - INDIVIDUAL STUDY</td>
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### SPRING TERM
- **HSM 400** - MANAGEMENT FOR THE HEALTH PROFESSIONS 5
- **HSM 392** - INDIVIDUAL STUDY 5
- **ELECTIVES** 5

### SENIOR YEAR

### FALL TERM
- **HSM 490** - INDIVIDUAL STUDY 5
- **ELECTIVES** 10

### WINTER TERM
- **HSM 401** - INFORMATION SYSTEMS 5
- **HSM 491** - INDIVIDUAL STUDY 5
- **ELECTIVES** 5

### SPRING TERM
- **HSM 492** - INDIVIDUAL STUDY 5
- **ELECTIVES** 10

### HEALTH SCIENCE

**HSM 300 — ACTIVITIES OF DAILY LIVING (2)** *(F)*
Study and analysis of physical activities usually performed during daily life. Includes dressing, walking, eating, grooming and other normal activities.

**HSM 301 — KINESIOLOGY (3)** *(W)*
The dynamic analysis of normal human motion with emphasis on specific muscle function and the physiological and mechanical principles related to muscle function; study of the effect of loss of specific muscles on movement, and of dynamic posture including mechanical principles governing the balance of body segments.

**HSM 302 — ORTHOTICS AND PROSTHETICS (3)** *(W)*
Study of bracing, splinting and use of prosthetic devices. Includes accessment, fabrication, fitting and evaluative techniques.

**HSM 303 — HEALTH - ILLNESS PRESENTATIONS (5)** *(S)*
The case study method is used to teach the characteristic changes produced by disease in particular systems and their relationship to clinical manifestations. The role of the therapist in evaluation and management of movement disorders is emphasized.
HSM 304 – HEALTH AND SOCIAL SERVICE DELIVERY SYSTEMS (5) (F,W,S)
The health and social service delivery team is discussed; the Dade County health delivery system is analyzed and compared with other systems in the world; alternative models of delivery are conceptualized.

HSM 372 – HUMAN PHYSIOLOGY AND ANATOMY (5) (F)
Study of the systems of the human body during the different stages of the life cycle and in disease states.

HSM 373 – HUMAN ANATOMY (5)
The study of the function and relationship of the various structures of the human body, especially the neuromuscularskeletal and cardiovascular systems with attention to the interrelationships between gross morphology, histology and embryology of body systems.

HSM 374 – HUMAN PHYSIOLOGY (3) (F)
The study of the fundamental regulatory processes occurring in organs, tissues and cells of the human species with emphasis on understanding the functions of the body as a dynamic whole.

HSM 377 – NEUROSCIENCE (5) (W)
The study of the gross and microscopic structure of the central nervous system with emphasis on functional relationships. The basis of integration, excilatory and suppressor mechanisms, motor-sensory interactions, postural and spatial orientation and motor functions are emphasized.

HSM 390 – INDIVIDUAL STUDY (5) (F,W,S)
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, and practicum.

HSM 391 – INDIVIDUAL STUDY (5) (F,W,S)
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, and practicum.

HSM 392 – INDIVIDUAL STUDY (5) (F,W,S)
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, and practicum.
HSM 400 — MANAGEMENT FOR THE HEALTH
PROFESSIONS (5) (F,W,S)
Fundamentals of management underlying the solution of problems of organization and operation of health programs.

HSM 401 — INFORMATION SYSTEMS (5) (F,W,S)
Fundamental concepts of statistics, research design and electrical data processing as it relates to health programs.

HSM 480 — ISSUES AND TRENDS IN HEALTH CARE
DELIVERY (2) (F,W,S)
Course is open to all students at the University. Survey of important issues, trends and problems affecting health delivery in our country.

HSM 481 — CONSUMER HEALTH AND
SAFETY EDUCATION (5) (F,W,S)
Includes survey of the problems and products influencing the consumer of health services, and study of solutions to prevent and correct fraud.

HSM 482 — HEALTH LEADERSHIP (2) (S)
Course is designed for students in School of Health and Social Services. Study of health disciplines and their role in community health programs.

HSM 483 — THE CONSUMER AND SERVICE
SYSTEMS (5) (F,W,S)
Every individual interacts with service organizations in the community, as a consumer of services or in other ways. (1) What are the philosophical assumptions behind operating policies? (2) How are these services organized, financed, managed? (3) How can the services be evaluated? (4) How can program change be accomplished? These questions will be examined for health, safety, social and consumer services, focusing on the individual’s position and concerns.

HSM 484 — FAMILY HEALTH CENTERS --
AN OVERVIEW (3) (S)
The family health center will be viewed as an entity within the health delivery system. It will be analyzed and evaluated as a functional unit with emphasis placed on humanistic approach to staffing and service patterns.

HSM 490 — INDIVIDUAL STUDY (5) (F,W,S)
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, and practicum.
HSM 491 – INDIVIDUAL STUDY (5)  
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, and practicum.

HSM 492 – INDIVIDUAL STUDY (5)  
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, and practicum.

HSM 500 – INDIVIDUAL STUDY (5)  
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum, and teaching.

HSM 501 – INDIVIDUAL STUDY (5)  
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum, and teaching.

HSM (MAN) 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.

Generalized Program of Study  
for  
MEDICAL TECHNOLOGY MAJORS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

Required Courses:  
Students are expected to have completed a medical laboratory technician program, or a pre-medical technology curriculum.

Recommended Courses:  
Courses required for graduation as a medical laboratory technician or courses in health sciences, physical sciences, social studies and humanities.

Remarks:  
The Florida International University Generalized Program of Studies, below, has been prepared to reflect the differing academic preparation of “Track A” and “Track B” students.
The courses contained herein are provisional and subject to change, and therefore do not constitute an agreement between the School and the student. The student should see his program advisor.

Florida International University Generalized Program of Study:

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<tr>
<td>CHE 305 - INTRODUCTION TO PHYSICAL CHEMISTRY</td>
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<td>MDT 375 - MEDICAL PARASITOLOGY</td>
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<td>HSM 400 - MANAGEMENT FOR THE HEALTH PROFESSIONS</td>
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<td><strong>WINTER TERM</strong></td>
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<tr>
<td>CHE 301 - BIO-ORGANIC CHEMISTRY</td>
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<td>MDT 376 - IMMUNOLOGY AND GENETICS</td>
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<td>PHY 305 - PHYSICS</td>
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<tr>
<td>CHE 302 - ORGANIC CHEMISTRY</td>
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<td>MDT 300 - PROBLEMS IN PUBLIC HEALTH</td>
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<td>HSM 304 - HEALTH &amp; SOCIAL SERVICE DELIVERY SYSTEMS</td>
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**SENIOR YEAR**

| **FALL TERM** | CREDITS |
| CHE 306 - INSTRUMENTATION & DESIGN | 5 |
| MDT 401 - ADVANCED ANALYSIS (HEMATOLOGY) | 3 |
| ELECTIVES | 10 |
| **WINTER TERM** | |
| MDT 370 - MEDICAL BIOCHEMISTRY I | 4 |
| HSM 401 - INFORMATION SYSTEMS | 5 |
| MDT 475 - ADVANCED ANALYSIS (BLOOD BANKING) | 3 |
| ELECTIVE | 5 |
| **SPRING TERM** | |
| MDT 371 - MEDICAL BIOCHEMISTRY | 4 |
| MDT 471 - ADVANCED ANALYSIS (MICROBIOLOGY) | 3 |
| ELECTIVES | 10 |
MDT 300 – PROBLEMS IN PUBLIC HEALTH (5) (S)
Study includes health facility environmental safety, and community health problems such as local ecology, pesticides, communicable diseases (including VD and tuberculosis) and drug addiction.

MDT 370 – MEDICAL BIOCHEMISTRY I (4) (F)
This course treats the chemistry of biological processes and their implication in pathological conditions.

MDT 371 – MEDICAL BIOCHEMISTRY II (4) (W)
A continuation of Chemistry 370

MDT 375 – MEDICAL PARASITOLOGY (5) (F)
Classification, morphology and life cycles of medically significant parasites, emphasizing epidemiology, pathogenesis, symptomatology and control.

MDT 376 – IMMUNOLOGY AND GENETICS (5) (W)
Chemical and biological nature of antigens and antibodies and their action in man with applications to immunopathology. Elementary genetics with reference to human tissue and blood compatibility.

MDT 401 – ADVANCED ANALYSIS I – HEMATOLOGY (3) (W)
Study of abnormal morphology, preparation and differential study of bone marrow specimens, evaluation of L.E. preps, alkaline phosphatase and peroxidase stains, sperm counts, etc.

MDT 471 – ADVANCED ANALYSIS II – MICROBIOLOGY (3) (S)

MDT 475 – ADVANCED ANALYSIS III – BLOOD BANKING (3) (F)
Advanced immuno-hematology including investigation of transfusion reactions, Rh problems, subgrouping, antibody screening and identification, cord blood studies and cross match problems.

MDT 500 – INDIVIDUAL STUDY (5) (F,W,S)
The student is provided with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum and teaching.
Generalized Program of Study for NURSING MAJORS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

**Required Courses:** Students are expected to have graduated from either a diploma school of nursing or community college school of nursing, and have been registered by State Board Examinations in Nursing.

The courses contained herein are provisional and subject to change, and therefore do not constitute an agreement between the School and the student. The student should see his program advisor.

**Florida International Generalized Program of Study:**

### JUNIOR YEAR

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<td>NUR 300 - ACUTE AND LONG TERM NURSING</td>
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<td>HEP 401 - INFORMATION SYSTEMS</td>
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<td>NUR 401 - INDIVIDUAL STUDY ELECTIVES</td>
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NUR 402 - NURSING LEADERSHIP  
ELECTIVES  

SPRING TERM  
NUR  402 - NURSING LEADERSHIP  

NURSING  

NUR 300 — ACUTE AND LONG-TERM CARE  
NURSING (10)  
(F)  
Study of acute and long-term care nursing concepts in inpatient facilities. Includes seminars and practicums in medical-surgical, maternal and infant care, pediatric and gerontological nursing.  

NUR 301 — NURSING IN AN EVOLVING HEALTH  
CARE SYSTEM (5)  
(F,W,S)  
Analysis of issues and trends in the health care system and their impact on nursing practice, delivery of nursing services and nursing education.  

NUR 400 — COMMUNITY HEALTH NURSING (10)  
(F)  
Study of community health nursing, including public health, mental health, and family centered care. Includes presentations and discussions, and practicums in ambulatory care settings.  

NUR 401 — INDIVIDUAL STUDY (5 to 10)  
(W)  
The student is provided with an opportunity to specialize in nursing area of special interest. Includes seminars, search of literature, research and practicum.  

NUR 402 — NURSING LEADERSHIP (5)  
(S)  
Course provides vehicle for student to apply social, physical, behavioral and biological nursing theories to nursing care. Includes ethical and legal concepts of nursing care, interdisciplinary factors and community responsibilities.  

NUR 500 — INDIVIDUAL STUDY(5)  
(S)  
The student is provided with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum and teaching.
Generalized Program of Studies
for
OCCUPATIONAL THERAPY MAJORS

Lower Division Preparation:

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

Required Courses: Students are expected to have completed coursework in the health sciences, social studies and the humanities.

Recommended Courses: Students are encouraged to complete a pre-occupational therapy curriculum, or an occupational therapy assistant program. Students may have completed a baccalaureate degree program.

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Florida International University Generalized Program of Study:

JUNIOR YEAR

CREDITS

FALL TERM
HSM 373 - HUMAN ANATOMY 5
HSM 374 - HUMAN PHYSIOLOGY 3
PSY 307 - HUMAN GROWTH AND DEVELOPMENT 5
OCT 300 - INTRODUCTION TO OCCUPATIONAL THERAPY 1
OCT 301 - CRAFT ACTIVITIES I 2

WINTER TERM
HSM 377 - NEUROSCIENCE 5
HSM 301 - KINESIOLOGY 2
HSM 304 - HEALTH & SOCIAL SERVICE DELIVERY SYSTEMS 5
OCT 302 - MAJOR CRAFTS 3
OCT 390 - CLINICAL SCIENCE I 1

SPRING TERM
PSY 406 - DEVELOPMENTAL PSYCHOLOGY 5
OCT 303 - PRINCIPLES OF OCCUPATIONAL THERAPY I 5
PSY 417 - GROUP DYNAMICS 3
OCT 304 - CRAFT ACTIVITIES II 2
OCT 391 - CLINICAL SCIENCE II 1
SUMMER TERM
OCT 392 - EDUCATIONAL CLINICAL EXPERIENCE 12

SENIOR YEAR

FALL TERM
OCT 400 - PRINCIPLES OF OCCUPATIONAL THERAPY II 5
HSM 303 - HEALTH ILLNESS PRESENTATIONS 5
HSM 400 - MANAGEMENT FOR THE HEALTH PROFESSIONS 5
OCT 490 - CLINICAL SCIENCE III 1

WINTER TERM
PSY 425 - COMMUNITY PSYCHOLOGY 5
OCT 401 - PRINCIPLES OF OCCUPATIONAL THERAPY III 5
OCT 402 - CRAFT ACTIVITIES III 3
HSM 300 - ACTIVITIES OF DAILY LIVING 2
OCT 491 - CLINICAL SCIENCE IV 1

SPRING TERM
HSM 401 - INFORMATION SYSTEMS 5
HSM 403 - DEPARTMENTAL DESIGN AND FUNCTION 1
HSM 302 - ORTHOTICS & PROSTHETICS 3
OCT 492 - CLINICAL SCIENCE V 1
ELECTIVES 5

SUMMER TERM
OCT 493 - EDUCATIONAL CLINICAL EXPERIENCE 12

Note: Certain courses may be waived depending upon your previous academic

OCCUPATIONAL THERAPY

OCT 300 – INTRODUCTION TO OCCUPATIONAL THERAPY (1) (F)
An introduction to the scope of occupational therapy, its historical development and current status in service, education and research endeavors.

OCT 301 – CRAFT ACTIVITIES I (2) (F)
An introductory course in the therapeutic use of the creative arts with emphasis on leather and ceramics.

OCT 302 – MAJOR CRAFTS (3) (W)
Course designed to introduce the student to wood, metal and plastics, and their properties and creative values.
OCT 303 – PRINCIPLES OF OCCUPATIONAL THERAPY I (5)  
The concept of Occupational Therapy as one of the helping professions and the role of the occupational therapist in the health enterprise and the concept of community and principles of patient care.

OCT 304 – CRAFT ACTIVITIES II (2)  
Continuation of Craft Activities I with an added emphasis on weaving and relating these therapeutic processes to patient care delivery.

OCT 390 – CLINICAL SCIENCE I (1)  
An introduction to the patient care settings in the Greater Miami community. Integration and application of therapeutic and scientific principles to the beginning patient-therapist relationship, abilities and interdisciplinary communication.

OCT 391 – CLINICAL SCIENCE II (1)  
Continuation of Clinical Science I. Emphasis will be on principles and techniques of therapeutic procedures and the role of the occupational therapist, with supervised clinical experience in the various occupational therapy departments in the Greater Miami community.

OCT 392 – EDUCATIONAL CLINICAL EXPERIENCE (15)  
A twelve week practicum in occupational therapy with emphasis on psychosocial dysfunction in an agency providing an interdisciplinary approach to patient care.

OCT 400 – PRINCIPLES OF OCCUPATIONAL THERAPY II (5)  
Continuation of Occupational Therapy I. Principles and techniques of major mental health concepts with emphasis on evaluation and analysis, planning and treatment activities.

OCT 401 – PRINCIPLES OF OCCUPATIONAL THERAPY III (5)  
Continuation of Occupational Therapy II with emphasis on evaluation, planning and treatment concepts as applied to neuromuscular, perceptualmotor and other conditions causing physical dysfunction.

OCT 402 – CRAFT ACTIVITIES III (3)  
Continuation of Craft Activities II with emphasis on assessment,
planning, treating and evaluating the therapeutic value of the patient uses of all the crafts.

OCT 490 — CLINICAL SCIENCE III (1) (F)
Continuation of Clinical Science II with added emphasis on the role of the occupational therapist as a teacher.

OCT 491 — CLINICAL SCIENCE IV (1) (W)
Continuation of Clinical Science III with emphasis on the role of the occupational therapist as an evaluator and a planner of occupational therapy care.

OCT 492 — CLINICAL SCIENCE V (1) (S)
Continuation of Clinical Science IV with emphasis on the role of the occupational therapist as a member of the health delivery team.

OCT 493 — EDUCATIONAL CLINICAL EXPERIENCE (15) (SS)
A twelve-week practicum in occupational therapy with emphasis on psychomotor dysfunction in an agency providing an interdisciplinary approach to patient care.

OCT 500 — INDIVIDUAL STUDY (5) (F,W,S)
Course provides student with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum and teaching.

Generalized Program of Studies for PHYSICAL THERAPY MAJORS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements:

Required Courses: Students are expected to have completed one year of chemistry, physics and the biological sciences.

Recommended Courses: Students are encouraged to complete a prephysical therapy curriculum or a physical therapy assistant curriculum. Students may have completed a baccalaureate degree program.
The courses contained herein are provisional and subject to change, and therefore do not constitute an agreement between the School and the student. The student should see his program advisor.

Florida International University Generalized Program of Study:

### JUNIOR YEAR

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### SENIOR YEAR

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<td>PSY 417 - GROUP DYNAMICS</td>
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SPRING TERM

HSM 403 - DEPARTMENTAL DESIGN & FUNCTION 1
PHT 403 - PRINCIPLES OF PHYSICAL THERAPY IV 5
HSM 401 - INFORMATION SYSTEMS 5
PHT 492 - CLINICAL SCIENCE V ELECTIVES 1

SUMMER TERM

PHT 493 - EDUCATIONAL CLINICAL EXPERIENCE 15

Note: Certain courses may be waived depending upon your previous academic experience.

PHYSICAL THERAPY

PHT 300 — INTRODUCTION TO PHYSICAL THERAPY (1) (F)
An introduction to the scope of physical therapy, its historical development and current status in service, education and research endeavors.

PHT 301 — PRINCIPLES OF PHYSICAL THERAPY I (5) (S)
The concept of physical therapy as one of the helping professions and the role of the physical therapist in the health care system; the health enterprise, and the concept of community and principles of patient care.

PHT 390 — CLINICAL SCIENCE I (1) (W)
An introduction to the patient care settings in the Greater Miami community. Integration and application of therapeutic and scientific principles to the beginning patient-therapist relationship, abilities and interdisciplinary communication.

PHT 391 — CLINICAL SCIENCE II (1) (S)
Continuation of Clinical Science I. Emphasis is on principles and techniques of therapeutic procedures and the role of the physical therapist, with supervised clinical experience in various physical therapy departments in the Greater Miami Community.

PHT 392 — EDUCATIONAL CLINICAL EXPERIENCE (15) (SS)
A twelve-week practicum in physical therapy with emphasis on the interdisciplinary approach to patient care in acute and long-term care settings.

PHT 401 — PRINCIPLES OF PHYSICAL THERAPY II (5) (F)
Continuation of Physical Therapy I. The physiological and biophysical basis for therapeutic use of superficial heat and cold, deep heat, massage, sound, light and electricity, as well as the anatomical and physiological basis for therapeutic exercise.

PHT 402 – PRINCIPLES OF PHYSICAL THERAPY III (5) (W)
Continuation of Physical Therapy II. Principles and techniques of therapeutic exercise and their application in patient care. The role of the physical therapist as a teacher is emphasized throughout the course. Theory and application of evaluation procedures and neuromuscular fascilitation treatment procedures are studied in depth. The role of the physical therapist as an evaluator and planner of therapeutic programs is stressed.

PHT 403 – PRINCIPLES OF PHYSICAL THERAPY IV (5) (S)
Continuation of Physical Therapy III. Particular emphasis is given to normal human growth and development as a basis for evaluation and treatment. Special consideration is given to the role of the physical therapist as an educator in relation to patient and family education, inservice education and planning of the educational aspects of the Physical Therapy program.

PHT 490 – CLINICAL SCIENCE III (1) (F)
Continuation of Clinical Science II with added emphasis on the role of the physical therapist as a teacher.

PHT 491 – CLINICAL SCIENCE IV (1) (W)
Continuation of Clinical Science III with emphasis on the role of the physical therapist as an evaluator and a planner of physical therapy care.

PHT 492 – CLINICAL SCIENCE V (1) (S)
Continuation of Clinical Science IV with emphasis on the role of the physical therapist as a member of the health delivery team.

PHT 493 – EDUCATIONAL CLINICAL EXPERIENCE (15) (SS)
A twelve-week practicum in physical therapy with emphasis on the interdisciplinary approach to patient care in the ambulatory care setting.

PHT 500 – INDIVIDUAL STUDY (5) (F,W,S)
The student is provided with an opportunity to specialize in area of special interest. Includes seminars, search of literature, research, practicum and teaching.
Generalized Program of Study for SOCIAL WORK MAJORS

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or course requirements.

Required Courses: Pre-requisite for acceptance into the Social Work program is the Associate Arts degree from a Social Science stream or a pre-Social Work program. Equivalent work from a four year institution will also be acceptable. Students not meeting this requirement may be accepted for admission and an individualized program of study designed in consultation with the Dean of the School of Health and Social Services.

Recommended Courses: An equivalent course to PSY 306, Human Growth & Development (Junior Year, fall term below) may be offered in the Junior College and students are urged to take it before entering Florida International.

Florida International University Generalized Program of Study:

JUNIOR YEAR

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<td>HSM 304</td>
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<td>HISTORICAL AND PHILOSOPHICAL PERSPECTIVES OF SOCIAL WELFARE SERVICES</td>
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<td>METHODS OF COMMUNITY RESEARCH</td>
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<td>SOW 306</td>
<td>SELF-AWARENESS, SELF-MODIFICATION AND SERVICE</td>
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<td>SOW 302</td>
<td>CONTEMPORARY ISSUES AND PROBLEMS IN SOCIAL WELFARE POLICY</td>
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SENIOR YEAR

CREDITS

FALL TERM
SOW 401 - COMMUNITY DEVELOPMENT 5
SOW 419 - FIELD EXPERIENCE I** 10
or
SOW 401 - and 2 electives 10

WINTER TERM
SOW 419 - FIELD EXPERIENCE I** 10
1 elective 5
or
3 electives 15

SPRING TERM
SOW 429 - SENIOR PROJECT 5-15
and/or
ELECTIVES 5-15

*Required only if not satisfactorily completed at the Junior College level.

**The student in consultation with a school advisor will opt to complete his second field experience the first or second quarter of his senior year.

SOCIAL WORK

SOW 301 – HISTORICAL AND PHILOSOPHICAL PERSPECTIVES OF SOCIAL WORK (5)  (F,W,S)
A survey of the historical development and ideological basis of present public and private social services.

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 in Social Institutions and in Social Technology so that he can conceptualize them as problems for policy making in the public sector. Emphasis is placed upon problem identification and policy formulation.

SOW 305 – METHODS OF COMMUNITY RESEARCH (5)  (W,S)
Introduction to research design, analysis, evaluation and data collection techniques. Each student will isolate a specific community problem area in South Florida, and apply the appropriate techniques that will allow a critical evaluation of the situation.

SOW 306 – SELF AWARENESS, SELF MODIFICATION, AND SERVICE (5)  (F,W,S)
A variety of human relations techniques are used to allow the student to discover how others perceive him to identity his own
value orientations in relationship to others, and to apply the implications of these self-realizations to his interaction with others as a social worker.

**SOW 307 – SOCIAL WORK PRACTICE SKILLS (5) (W,S)**
Development of skills in problem identification, strategy selection, implementation of various approaches and evaluation of effectiveness.

**SOW 308 – FIELD EXPERIENCE I (10) (W,S)**
Supervised work experience in social service agencies. Coordinating seminars involve students, professors, the school’s field co-ordinator and field instructors.

**SOW 401 – COMMUNITY DEVELOPMENT (5) (W,S)**
An analysis of problems faced by communities throughout the world in their struggles to organize and use resources. Emphasis is on the development of techniques that can facilitate a community’s organization. The student will identify a “community group” in south Florida and attempt to determine the community’s resources; clarify its problems, and provide information that would enable the group to effectively mobilize itself.

**SOW 419 – FIELD EXPERIENCE II (10) (W,S)**
Supervised work experience in a community organization or a community development project. Co-ordinating seminars involve students, professors, the school’s field co-ordinator and field instructors.

**SOW 429 – SENIOR PROJECT (5 to 15) (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 wishes to gain a degree of expertise.

**SOW 495 – INDIVIDUAL STUDY (Variable) (F,W,S)**
Individually selected program of supervised personal study related to specific social issues.

**SOW 496 – DIRECTED READINGS (Variable)**
Extensive reading and analysis of appropriate literature under faculty supervision.

**SOW 500 – INDEPENDENT RESEARCH (Variable)**
Individually selected program of supervised group or personal study related to a specific social work issue. Normally the product will be a research paper suitable for publication.
School of Hotel, Food and Travel Services

Dean Gerald W. Lattin
Generalized Program of Study for Majors in
GENERAL HOSPITALITY MANAGEMENT
INTERNATIONAL HOTEL MANAGEMENT
HOTEL/MOTEL MANAGEMENT
RESTAURANT AND FOOD SERVICE
TOURISM AND TRAVEL MANAGEMENT

Lower Division Preparation

As a part of the 90 quarter hours (60 semester hours) of lower division coursework necessary to enter this upper division major, note the following recommendations and/or requirements:

Required Courses: Principles of Accounting is a pre-requisite for taking coursework in the accounting and finance areas; however, candidates who have not taken this pre-requisite will be required to take this course during their first year at the University.

Recommended Courses: Courses in accounting, economics, psychology, and public speaking are recommended but not required for entrance.

Florida International University Generalized Program of Study:

GENERAL HOSPITALITY MANAGEMENT

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<td><strong>HRM 302</strong></td>
<td>PROFIT PLANNING</td>
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<td><strong>HRM 303</strong></td>
<td>INTERPRETATION OF HOTEL FINANCIAL DATA</td>
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<tr>
<td><strong>HRM 305</strong></td>
<td>OPERATIONS CONTROL</td>
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<tr>
<td><strong>HRM 408</strong></td>
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Food and Beverage Management | 20 hours |
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Hotel and Restaurant Administration | 25 hours |
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MAR 519 - SERVICE MARKETING MANAGEMENT  
(TAUGHT BY SCHOOL OF BUSINESS AND ORGANIZATIONAL SCIENCES)

Electives  
30 hours  
100 hours

HOTEL/MOTEL MANAGEMENT

Accounting and Finance  
25 hours

HRM 301 - HOTEL ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS
HRM 302 - PROFIT PLANNING
HRM 303 - INTERPRETATION OF HOTEL FINANCIAL DATA
HRM 305 - OPERATIONS CONTROL
HRM 408 - LEGAL ASPECTS OF HOSPITALITY FINANCING

Food and Beverage Management  
20 hours

HRM 310 - INTRODUCTORY COMMERCIAL FOOD SERVICE PRODUCTION
HRM 311 - VOLUME FEEDING MANAGEMENT  
or
HRM 315 - FOOD SERVICE MANAGEMENT
HRM 317 - BEVERAGE MANAGEMENT
HRM 318 - BASIC MEAT SCIENCE

Hotel Administration  
30 hours

HRM 325 - LAW AS RELATED TO THE HOSPITALITY INDUSTRY
HRM 328 - INTERNSHIP IN HOSPITALITY MANAGEMENT
HRM 331 - HOTEL MARKETING AND SALES PROMOTION
HRM 425 - UNION-MANAGEMENT RELATIONS IN THE HOSPITALITY INDUSTRY
MAR 519 - SERVICE MARKETING MANAGEMENT  
(TAUGHT BY SCHOOL OF BUSINESS AND ORGANIZATIONAL SCIENCES)

Electives  
25 hours  
100 hours

INTERNATIONAL HOTEL MANAGEMENT

Accounting and Finance  
25 hours

HRM 301 - HOTEL ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS
HRM 302 - PROFIT PLANNING
HRM 303 - INTERPRETATION OF HOTEL FINANCIAL DATA
HRM 305 - OPERATIONS CONTROL
HRM 408 - LEGAL ASPECTS OF HOSPITALITY FINANCING

Food and Beverage Management
HRM 310 - INTRODUCTORY COMMERCIAL FOOD SERVICE PRODUCTION
or
HRM 315 - FOOD SERVICE MANAGEMENT
HRM 311 - VOLUME FEEDING MANAGEMENT
HRM 317 - BEVERAGE MANAGEMENT

Hotel Administration
HRM 325 - LAW AS RELATED TO THE HOSPITALITY INDUSTRY
HRM 328 - INTERNSHIP IN HOSPITALITY MANAGEMENT
HRM 331 - HOTEL MARKETING AND SALES PROMOTION
MAR 519 - SERVICE MARKETING MANAGEMENT
(TAUGHT BY SCHOOL OF BUSINESS AND ORGANIZATIONAL SCIENCES)
TTM 308 - INTERNATIONAL TRAVEL AND TOURISM

Electives

RESTAURANT AND FOOD SERVICE

Accounting and Finance
HRM 301 - HOTEL ACCOUNTING & MANAGEMENT SYSTEM
HRM 302 - PROFIT PLANNING
HRM 303 - INTERPRETATION OF HOTEL FINANCIAL DATA
HRM 305 - OPERATIONS CONTROL

Food and Beverage Management
HRM 310 - INTRODUCTORY COMMERCIAL FOOD SERVICE PRODUCTION
or
HRM 315 - FOOD SERVICE MANAGEMENT
HRM 311 - VOLUME FEEDING MANAGEMENT
HRM 316 - RESTAURANT MANAGEMENT
HRM 317 - BEVERAGE MANAGEMENT
HRM 318 - BASIC MEAT SCIENCE
HRM 415 - PURCHASING AND MENU PLANNING

Restaurant and Food Service Administration
HRM 325 - LAW AS RELATED TO THE HOSPITALITY INDUSTRY
HRM 328 - INTERNSHIP IN HOSPITALITY MANAGEMENT
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**Electives** 20 hours

**TOURISM AND TRAVEL MANAGEMENT**

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<td>TTM 305</td>
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<td>TTM 309</td>
<td>INTERNSHIP IN TOURISM AND TRAVEL MANAGEMENT</td>
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**Electives** 30 hours

**HRM 301 — HOTEL ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS (5)**

An introductory study of various financial statements and uniform systems applicable to the hospitality industry. The class is open to students who have completed an elementary general accounting course. Case problems are used. Students prepare income statements, balance sheets and supporting schedules. Various management
information systems are analyzed and discussed. Various systems for generating and communicating of pertinent information to all levels of management for planning, directing and controlling are studied.

HRM 302 — PROFIT PLANNING (5)  
Profit plans are designed to achieve maximum benefits from available resources over a specified period of time. This course deals with preparation and use of various profit planning techniques. Profit planning is presented as a process that includes three planning horizons: long-range, operating, and achievement.

HRM 303 — INTERPRETATION OF HOTEL FINANCIAL DATA (5)  
This course deals with the evaluation of the performance or condition of the various businesses within the hospitality industry. The subject is approached through an in-depth study of financial statements. The significant relationships between the various accounts found on the financial statement and other financial reports are discussed. These relationships are usually expressed as ratios which the students are taught to calculate and analyze. It is through ratio analysis that many operating statistics are brought into meaningful context.

HRM 305 — OPERATIONS CONTROL (5)  
A basic course in food and beverage control. The following areas are examined in detail: Purchasing, receiving, storing, issuing, preparation and portioning, preparation, service and sales. A cost-managing approach is used in the study of food and beverage controls. Case problems provide the students an opportunity to design control systems for various types of food and beverage operations. Emphasis is placed on food and beverage controls as a tool of management.

HRM 310 — INTRODUCTORY COMMERCIAL FOOD SERVICE PRODUCTION (5)  
Provides an introduction to commercial food preparation, nutrition, product identification and storage. Course includes classroom instruction, laboratory experience, demonstration and actual experience in a working food production facility.

HRM 311 — VOLUME FEEDING MANAGEMENT (5)  
Training in a large quantity food operation which offers both production and management experience. Students will plan menus, supervise preparation and service, handle customer relations and keep accurate records on the profit and loss phases of the operation. Staffing, merchandising and cost controls are integral parts of the course.
What information does the individual consumer need to deal more effectively for goods and services? Where and how is this information obtained? What are the legal ramifications of dealing in the marketplace? 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.

An introduction to the major food systems now operating. Major problem areas facing management are analyzed. Modern management practices designed to alleviate these problems are explored and evaluated.

An analysis of the principal operating problems in the restaurant field. Procedures, approaches and techniques of management are explored and developed as they relate to the various categories of restaurants ranging from fast food to gourmet. Industry leaders will present successful concepts of restaurant operation.

A systematic analysis of all phases of beverage operations including bar management, purchasing, controls, merchandising and training. Thorough training in the history and service of wines and other alcoholic beverages. On the job experience and observation in hotels and restaurants.

Fundamentals of meat quality, yield, utilization of cuts, availability, costing, buying, inventorying, packaging, labor and trends.

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.

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) (F,W,S)**

Structured experience in all the major departments of an operating hotel, motel, restaurant or food service operation. Bi-weekly reports are required of all students.

**HRM 331 — HOTEL MARKETING AND SALES PROMOTION (5) (W)**

An application of marketing principles and sales promotion methods to the hospitality industry. Marketing mix, market research, convention and group sales functions are covered through case studies and lectures.

**HRM 332 — HOTEL ADVERTISING AND PUBLIC RELATIONS (5) (S)**

Fundamentals of advertising, publicity, public relations and direct mail promotion, and their role in a coordinated business promotion for hotels, motels and restaurants.

**HRM 340 — HOTEL AND FOOD SERVICE EQUIPMENT (5) (S)**

A comprehensive survey of all specialized equipment utilized in food service operation. Includes guideline for purchasing, utilizing and maintenance of this equipment.

**HRM 341 — HOTEL AND RESTAURANT PLANNING AND DESIGN (5) (F,1973)**

Consideration is given to the economic, productivity, aesthetic and merchandising factors involved in the planning and design stages of hotels and restaurants. Actual hotel and restaurant projects will serve as the basis for discussion and student project work.

**HRM 405 — ADVANCED INTERPRETATION OF HOTEL FINANCIAL DATA (5) (F,1973)**

A continuation of HRM 303. An in-depth analysis of the financial statement of several types of businesses in the hospitality industry. Utilizing the case method approach, students analyze the balance sheets and income statements of various public companies and forecast future operational results. Students examine other public companies not engaged in the hospitality area determining whether or not it is feasible for them to diversify into this field at the present time.

**HRM 406 — MANAGEMENT INFORMATION SYSTEMS II — COMPUTER (5) (W)**

An introductory course designed to acquaint the student with computers and information systems. A continuation of HRM 301.
Data processing equipment and techniques for the accumulation, classification, analysis and reporting of information are examined. Students are exposed to punch card tabulating equipment, electronic accounting machines and general purpose computers.

HRM 407 – OPERATIONS CONTROL II (5) (S)
A continuation of HRM 305. An advanced study of the routine procedures and reports necessary for an effective food and beverage control system. The case study approach is used.

HRM 408 – LEGAL ASPECTS OF HOSPITALITY FINANCING (5) (W,S)
An introductory course designed to acquaint the student with the legal aspects of financing in the hospitality 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 hospitality properties, condominium and cooperative forms of ownership and franchising.

HRM 415 – PURCHASING AND MENU PLANNING (5) (F,S)
Basic information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods including the development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized.

HRM 416 – SANITATION IN FOOD SERVICE OPERATIONS (5) (S)
The causes and prevention of food poisoning are stressed. Emphasis is placed on the current problems confronting the industry with recent food developments as they relate to sanitation. Curriculum developed by the National Sanitation Foundation is included.

HRM 425 – UNION MANAGEMENT RELATION IN THE HOSPITALITY INDUSTRY (5) (F,S)
A comprehensive course covering labor legislation, union history and the day-to-day administration of the labor contract. Emphasis is placed on collective bargaining and the business relationships between union and management.

HRM 426 – SENIOR SEMINAR IN MANAGEMENT METHODS (5) (W,S)
Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive
committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

HRM 427 – RESORT MANAGEMENT (5)  (S)
A course designed to focus on the unique problems of resort hotel management and the application of special techniques to meet these problems.

HRM 428 – HUMAN RELATIONS IN THE HOSPITALITY FIELD (5)  (S)
The problems faced by the supervisor and the executive in managing the human element in the hospitality field. Designed to give the student insight into the varied social and psychological factors present in any employee-employer relationship.

HRM 429 – HOSPITALITY LAW SEMINAR (5)  (S)
(Best taken after “Law as Related to the Hospitality Industry” or equivalent.) 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.

HRM 435 – FOOD AND BEVERAGE MERCHANDISING (5)  (S)
This is an application of marketing and advertising principles to the specific area of food and beverage campaigns for actual hotels and restaurants serving as practice laboratories.

HRM 445 – INTERIOR DESIGN AND DECOR (5)  (S)
A basic course examining in depth the theory and application of interior design and decor in the hospitality industry. Problems related to the construction, renovation design and decor of hotels and restaurants are discussed.

HRM 446 – FOOD FACILITIES LAYOUT AND DESIGN (5)  (F,1973)
Best taken after HRM 340. Students study and design various types of food facilities as used in the hospitality industry. The course involves laboratory work, research and lectures by experts in the field.

HRM 500 – INDEPENDENT STUDIES (variable)  (F,W,S)
With permission from the Chairman 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.
TTM 301 – FUNDAMENTALS OF TOURISM (5)  (F,S)
An introduction to the broad fields of travel and tourism. Among
the topics covered are cultural tourism, sociology of tourism,
tourism components and supply, tourism development, the
economic role of tourism, tourism demand, and the marketing of
tourism.

TTM 302 – MANAGERIAL ACCOUNTING FOR TRAVEL AGENTS (5)  (W)
Development of a uniform system of accounts for the travel agent.
Special systems and applications of accounting as a tool for the
manager.

TTM 303-304 – TRAVEL AGENCY TECHNICAL OPERATIONS (5-5)  (W,S)
Comprehensive, detailed course covering the technical procedures,
practices and systems of day-to-day travel management. The
counseling, sales and personal relationships with clients, hotels, tour
agencies and transportation systems.

TTM 305 – PASSENGER TRAFFIC MANAGEMENT (5)  (W)
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 306 – TRAVEL AGENCY BUSINESS MANAGEMENT (5)  (W)
Course covers business office management including office
environment, office technology, files and references, credit,
commissions, accounts control and business reports. Employee
management and management’s responsibilities in this function are
emphasized.

TTM 308 – INTERNATIONAL TRAVEL AND TOURISM (5)  (S)
An introduction to the complete international scope of travel and
tourism. A brief analysis of regional framework and specific regions
of the world; the interrelationship between human society and the
physical environment. Tourism as a factor in economic development
and its cultural and sociological factors are explored. An analysis of
the international organization of tourism and the facilitation
procedures required for its successful implementation are
highlighted.

TTM 309 – INTERNSHIP IN TOURISM AND TRAVEL
MANAGEMENT (5)  (F,W,)
Structured experience in all phases of travel agency management and
in the travel and sales areas of major airlines. Bi-weekly reports are
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