ASTRONOMY

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM (4)
Introduction to the Astronomy of the Solar System. Course level assumes no Physics or Mathematics background. Only simple math will be used. Topics covered include properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration of planets and the moon, life on other worlds. This course is complementary to but independent of AST 2006. Either may be taken before the other or taken by itself.

AST 2006 STELLAR ASTRONOMY AND COSMOLOGY (4)
An introduction to Astrophysics and the structure of the universe. Course level assumes no Physics or Mathematics background. Only simple math will be used. Topics covered include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.

AST 2032C ILLUSTRATIVE ASTRONOMY (3)
Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons, weather. Current events in the space program. Planetarium and open sky demonstrations. Lec.-lab.

AST 3001 CONTEMPORARY THINKING IN ASTRONOMY (3)
Pr: Junior or Senior Standing or Cl. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. No experience in astronomy, physics or mathematics is necessary. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3043 HISTORY OF THE SCIENCE OF ASTRONOMY (3)
To familiarize seriously interested students with the history of astronomy and the influence of this discipline on the development of human knowledge.

AST 3046C ARCHAEOASTRONOMY (3)
Pr: Jr. or Sr. Standing or Cl. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-lab.

AST 3362 NAVIGATION (3)
Pr: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, navigation with minimum equipment, some spherical astronomy.

AST 3930 SELECTED TOPICS IN ASTRONOMY (1-4)
Pr: Cl. Course content will depend upon the interest of the faculty member and student demand. May be repeated up to 8 credit hours.

AST 3506 INTRODUCTION TO CELESTIAL MECHANICS (3)
Pr: MAC 3313 and some knowledge of differential equations, or Cl. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

AST 5932 SELECTED TOPICS IN ASTRONOMY (1-5)
Pr: Senior or advanced junior standing or Cl. Intensive coverage of special topics to suit needs of advanced students.

BIOLOGY


APB 1150 TOPICS IN HUMAN BIOLOGY (3)
Lectures, individual reading, movies, classroom discussions, and evaluation of selected biological topics, reflecting biological principles. For non-majors. No credit toward graduation for a biology department major.

APB 2130 ENVIRONMENT (3)
The application of basic principles of ecology to relevant problems and topics relating to man's environmental interaction through consideration of scientific and popular literature. For non-majors. May be taken by majors for free elective credit (grade or S/U).

APB 2140 FOOD AND DRUGS (3)
The application of basic biological principles to relevant problems and topics in nutrition and drugs through the consideration of scientific and popular literature. For non-majors. May be taken by majors for free elective credit (grade or S/U).

APB 2250 SEX, REPRODUCTION AND POPULATION (3)
The application of basic biological principles from subject areas to relevant problems and topics through the consideration of scientific and popular literature. For non-majors. May be taken by majors for free elective credit (grade or S/U).

APB 3095 FUNDAMENTALS OF TUMOR BIOLOGY (3)
Pr: PCB 4023C. A detailed examination of current information on cancer etiology, tumor cell growth and regulation, and host-tumor relationships.

BOT 2010C FUNDAMENTALS OF BOTANY (4)
Pr: BSC 2010C. Cell division, genetics, reproduction and development, physiology. Lec.-lab.

BSC 2010C FUNDAMENTALS OF BIOLOGY (4)
A brief review of living organisms, respiration, photosynthesis, cell structure, and specialization. Lec.-lab.

BSC 2932 SELECTED TOPICS IN BIOLOGY (1-4)
May be repeated.

BSC 3263 INTRODUCTORY MARINE BIOLOGY (3)
Pr: 1 year major's Biology or Cl. An introduction to the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Majors and non-majors.

BSC 4905 INDEPENDENT STUDY (1-3)
Pr: Cl and CC. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Natural Sciences specifies the regulations governing independent study. May be repeated. (S/U only).
BSC 4910 UNDERGRADUATE RESEARCH (1-4)
PR: CI and CC. Individual investigation with faculty supervision. (S/U only)

BSC 4930 SEMINAR IN BIOLOGY (1)
Senior or advanced junior standing. May be repeated once. (S/U only)

BSC 5133 SELECTED TOPICS IN BIOLOGY (1-3)
Each topic is a course in directed study under supervision of faculty member.

PCB 3063 GENERAL GENETICS (3)
PR: 1 year major's Biology. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lec.-disc.

PCB 4023C CELL BIOLOGY (4)
PR: CHM 3211, CHM 321IL and PCB 3063. A discussion of the concept and significance of the cell to biology; biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lab-c.

PCB 4043C PRINCIPLES OF ECOLOGY (3)
PR: 1 year major's Biology. An introduction to the basic principles and concepts of ecology as they are related to human population. Lec.-disc.

PCB 4064 EXPERIMENTAL GENETICS (3)
PR: PCB 3063. Experimental analysis of genetic systems. Lab-c.

PCB 4253 DEVELOPMENTAL BIOLOGY (3)
PR: PCB 4023. Topics in modern developmental biology to be covered in lecture and readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals. Recommended that student has taken BOT 2010C and ZOO 2010C.

PCB 4674 ORGANIC EVOLUTION (3)
PR: PCB 3063. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-disc.

PCB 5115C HORTICULTURAL BOTANY (1-3)
PR: PCB 3063. Survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab.

PCB 5415C BEHAVIORAL BOTANY (3)
PR: PCB 3063. A biological approach to the study of the phyla and class of flowering plants which have evolved to give an understanding of basic horticultural operations; seed sowing, dormancy growth requirements, vegetative propagation, pruning, and related problems. Lec.-lab.

PCB 5525C PLANT ANATOMY (3)
PR: BOT 2010C. Comparative studies of tissue and organ systems of fern and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec.-lab.

PCB 5725C EVOLUTION OF FLOWERING PLANTS (3)
PR: BOT 4130. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lab-c.

ZOO 2010C FUNDAMENTALS OF ZOOLOGY (4)
PR: BSC 2100C. Systematics, behavior patterns, genetics, and evolution, ecology. Lec.-lab.

BOTANY

BOT 3143C FIELD BOTANY (3)
PR: BOT 2010C. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field. Lec-lab.

BOT 3823C HORTICULTURAL BOTANY (2)
PR: Course in botany or biology. Application of principles of botany to give an understanding of basic horticultural operations; seed sowing, dormancy growth requirements, vegetative propagation, pruning, and related problems. Lec-lab.

BOT 4223C PLANT ANATOMY (3)
PR: BOT 2010C. Comparative studies of tissue and organ systems of fern and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec-lab.

BSC 5133 SELECTED TOPICS IN BIOLOGY (1-3)
Each topic is a course in directed study under supervision of a faculty member.

MICROBIOLOGY

ABP 4053C APPLIED AND ENVIRONMENTAL MICROBIOLOGY (5)
PR: MCB 3010C. A study of the applications of microbiology to industry, agriculture, medicine, and sanitary engineering. Lec-lab.

APB 5575C MEDICAL MICROBIOLOGY (4)
PR: MCB 3010C. A survey of the yeasts, molds, and actinomycetes most likely to be encountered by the bacteriologists, with special emphasis on the form/pathogenic for man.

MCB 3010C INTRODUCTION TO MICROBIOLOGY (4)
PR: BSC 2100C and 1 year College Chemistry. Organic chemistry and a course in genetics is recommended. Introduction to the biology of microorganisms: structure, physiology, and ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec-lab.

MCB 4115 DETERMINATIVE BACTERIOLOGY (5)
PR: MCB 3010C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec-lab.
MCB 4404 MICROBIAL PHYSIOLOGY (4)
PR: MCB 3010C, PCB 4023C. A study of physiological and metabolic phenomena pertinent to the growth, development, regulation, and death of microorganisms and to the chemical alterations they catalyze. Lec-lab.

MCB 4505C VIROLOGY (3)
PR: MCB 3010C. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.

MCB 5234 SEMINAR IN MICROBIOLOGY (1)
PR: Senior or advanced junior standing. May be repeated. (S/U only).

MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY (3)
PR: MCB 3010C. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5605 MICROBIAL ECOLOGY (4)
PR: MCB 3010C. A study of theory and methodology of the quantification of microbial processes in natural habitats with special emphasis on aquatic and terrestrial systems. Lec-lab.

MCB 5606 MICROBIOLOGY (3)
PR: A course in microbiology, cell biology or biochemistry and advanced standing. Consideration of mutualistic and parasitic symbioses between microbes and various animal, plant and microbic hosts from cellular, biochemical, evolutionary and ecological perspectives.

MCB 5936 SELECTED TOPICS IN MICROBIOLOGY (1-3)
Each topic is a course in directed study under supervision of a faculty member.

ZOOLOGY

APB 3190 HUMAN ANATOMY AND PHYSIOLOGY (5)
PR: BSC 2010C and ZOO 2010C. Lectures and discussions on the structure and function of the human body. For non-majors. May be taken by majors for free elective. (S/U only).

ENY 4004 INTRODUCTION TO ENTOMOLOGY (3)
PR: ZOO 3203 OR ZOO 3823C. An introduction to insect morphology, development, and classification. The identification of local forms will be emphasized. Lec-lab.

ENY 5501 AQUATIC ENTOMOLOGY (3)
PR: ENY 4004. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec-lab.

PCB 4184C HISTOLOGY (4)
PR: ZOO 2010C. Comparative approach to the study of tissues and the relation of their structure and function. Lec-lab.

PCB 4743C ANIMAL PHYSIOLOGY (4)
PR: PCB 4023C. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. (Fall Sem.) Lec-lab.

PCB 5306C LIMNINOLOGY (4)
PR: CI and CC. An introduction to the physical, chemical, and biological nature of fresh-water environments. Lec-lab.

PCB 5325C TERRESTRIAL ANIMAL ECOLOGY (3)
PR: PCB 4043C. Field and laboratory investigations of the basic principles of ecology as applied to terrestrial animals. Lec-lab.

PCB 5335C BIOGEOGRAPHY (3)
PR: One year major's Biology. Principles and general patterns of terrestrial and marine animal and plant distributions.

ZOO 3203C INVERTEBRATE ZOOLOGY (4)
PR: ZOO 2010C. An introduction to the major invertebrate groups, with emphasis on local forms. Field work will be required. Lec-lab.

ZOO 3713C COMPARATIVE VERTEBRATE ANATOMY (4)
PR: ZOO 2010C. Anatomy of selected vertebrate types emphasizing evolutionary trends. (Spring Sem.)
CHM 2021 CHEMISTRY FOR TODAY (3)
A one semester terminal course designed to survey some of the important concepts and technologies of modern chemistry. No credit for science majors.

CHM 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I (3)
First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.

CHM 2031 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II (3)
PR: CHM 2030. Second half of general, biological and organic chemistry. No credit for science majors.

CHM 2045 GENERAL CHEMISTRY I (3)
CHM 2045. Fundamentals of chemistry; mass and energy relationships, chemical changes, equilibrium, chemical kinetics, atomic and molecular structure, descriptive chemistry of selected elements. Lec-dis.

CHM 2045L GENERAL CHEMISTRY I LABORATORY (1)
PR: CHM 2045. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

CHM 2046 GENERAL CHEMISTRY II (3)
PR: CHM 2045 OR EQUIVALENT. Continuation of General Chemistry. Lec-dis.

CHM 2046L GENERAL CHEMISTRY II LABORATORY (1)
PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of Chemistry laboratory.

CHM 3020 CURRENT ISSUES IN CHEMISTRY (3)
A survey of the important current issues in which chemistry affects our lives; e.g., environment, drugs, cancer, warfare, etc. No credit for chemistry majors.

CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY (4)
PR: CHM 2046, CHM 2046L. Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec-lab.

CHM 3200 ORGANIC CHEMISTRY (4)
PR: CHM 2046 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alkyl halides, alcohols, phenols, ethers, sulfur analogs and other compounds. A one-semester course.

CHM 3210C ORGANIC CHEMISTRY I (4)
PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.

CHM 3210L ORGANIC CHEMISTRY LABORATORY I (1)

CHM 3211 ORGANIC CHEMISTRY II (4)
PR: CHM 3210 or equivalent. Continuation of organic chemistry. Lecture.

CHM 3211L ORGANIC CHEMISTRY LABORATORY II (1)

CHM 3400 ELEMENTARY PHYSICAL CHEMISTRY I (3)
PR: CHM 2046, CHM 2046L, MAC 2044, MAC 2243, PHY 2051, PHY 2052, PHY 2051L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.

CHM 3401 ELEMENTARY PHYSICAL CHEMISTRY II (3)
PR: CHM 3400. Reaction kinetics, enzyme kinetics, macromolecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.

CHM 3402C ELEMENTARY PHYSICAL CHEMISTRY LABORATORY (1)
PR: CHM 3120 and 3120L. CR: CHM 3400 and/or CHM 3401. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHM 3610C INTERMEDIATE INORGANIC CHEMISTRY (4)
PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry. Lec-lab.

CHM 4060 USE OF THE CHEMICAL LITERATURE (1)
Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4070 HISTORICAL PERSPECTIVES IN CHEMISTRY (3)
PR: CHM 2046; or senior standing, and CI. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec-dis.

CHM 4130C METHODS OF CHEMICAL INVESTIGATION I (4)
PR: CHM 3120C, CHM 3211L, CHM 3211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects.

CHM 4131C METHODS OF CHEMICAL INVESTIGATION II (4)
PR: CHM 4130C. Continuation of CHM 4130C.

CHM 4300 BIOMOLECULES I (3)
PR: CHM 3211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.

CHM 4410 PHYSICAL CHEMISTRY I (3)
PR CHM 3120C and MAC 3282 or MAC 3412, and PHY 2052 or PHY 3042. Thermodynamics, the states of matter, solutions. Lec.

CHM 4411 PHYSICAL CHEMISTRY II (3)
PR: CHM 4410. Introduction to quantum mechanics and molecular spectroscopy. Lec.

CHM 4412 PHYSICAL CHEMISTRY III (3)

CHM 4610 ADVANCED INORGANIC CHEMISTRY (3)
PR: CHM 4410 or CI. An advanced theoretical treatment of inorganic compounds. Lec.

CHM 4903 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Natural Sciences specifies the regulations governing independent study. May be repeated. (SU only)

CHM 4932 SELECTED TOPICS IN CHEMISTRY (1-3)
PR: CI. The course content will depend on the interest of faculty members and student demand.

CHM 4970 UNDERGRADUATE RESEARCH (1-3)
PR: CI. (S/U only)

CHM 5225 INTERMEDIATE ORGANIC CHEMISTRY (3)
PR: CHM 3211, CHM 3211L, or equivalent. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHM 5425 APPLICATIONS IN PHYSICAL CHEMISTRY (3)
PR: CHM 4412. Applications of chemical theory to chemical systems.

CHM 5452 POLYMER CHEMISTRY (3)
PR: Either CHM 3211, CHM 3211L, or CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.

CHM 5453 CHEMICAL THERMODYNAMICS (3)
PR: CHM 4412 or CI. The applications of thermodynamic theory to the study of chemical systems with emphasis on the energetics of reactions and chemical equilibria. Lec.

CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY (3)
PR: CHM 4411 or CI. Chemical forces, reactivity, periodicity, and
GEOLGY 199

GLY 3830 GEOLOGY FOR ENGINEERS (3)
PR: Junior standing in College of Engineering or Cl. An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems. (No credit toward the geology major; or for those with credit for GLY 2010.)
Lec.-lab.

GLY 4200 MINERALOGY-PETROLOGY I (4)
PR: Physical Geology, one-year course of college trigonometry or equivalent or Cl. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec-lab.

GLY 4220 MINERALOGY-PETROLOGY II (5)
PR: GLY 4020 or Cl. Theory and use of polarized light microscopy as a means of mineral identification. Special emphasis is placed on the identification of igneous and metamorphic rocks in hand specimen and thin section. Lec-lab.

GLY 4511 STRATIGRAPHY AND PETROLEUM GEOLOGY (4)
PR: GLY 4550. Emphasis on classical principles of litho- and biostratigraphy, basin analysis, geophysical well logging, origin and occurrence of petroleum. Exploration methods are emphasized. Lec-lab.

GLY 4550 DEPOSITIONAL SYSTEMS (3)
PR: GLY 2010, GLY 2100 or equivalent. Study of modern sedimentary environments, and their relationships to one another. Geology: the production, properties, measurement, and use of radioactive tracers. Lec-lab.

GLY 4700 SURFICIAL GEOLOGY (4)
PR: Senior or advanced junior standing and Cl. Origin, evolution and distribution of land forms and soils. Lec-lab-field trips.

GLY 4791 FIELD CAMP PART I - FIELD METHODS (3)
PR: Cl. Senior standing. Linked with Field Camp I. Basic field methods; use of pocket transit, techniques of field location, pace and compass traversing, techniques for lithological and structural data collection, fundamentals of geological data presentation and map making. Field camp is located in northern New Mexico. Requires camping and vigorous physical activity. Lec-field work.

GLY 4792 FIELD CAMP PART II - FIELD GEOLOGY (3)
PR: Cl. Senior standing. Linked with Field Camp I. Fundamentals of regional field geology; mapping sedimentary, metamorphic and igneous rocks on topographic base maps; interpretation of depositional environments; interpretation of deformational and metamorphic histories. Requires camping and vigorous physical activity. Lec-field work.

GLY 4816 ECONOMIC MINERAL DEPOSITS (3)
PR: 15 hours of geology or Cl. Principles involved in the origin, occurrence, recovery, and use of mineral resources. Lec-lab-field trips.

GLY 4820 INTRODUCTION TO HYDROGEOLOGY (4)
PR: GLY 2010, advanced junior or senior standing, one year each physics and calculus recommended, or Cl. Ground water flow
systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec-lab-field trips.

GLY 4905 INDEPENDENT STUDY (1-3)
PR: CL Specialized independent study determined by the student's needs and interests. May be repeated. (SU only)

GLY 4913 UNDERGRADUATE RESEARCH (1-3)
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (SU only)

GLY 4920 GEOLOGY COLLOQUIUM (1)
PR: Senior standing in Geology. Weekly topical lectures by faculty, graduate students and invited speakers. Required of all senior geology majors, to be repeated for a total of two credit hours. (SU only)

GLY 4930 SELECTED TOPICS IN GEOLOGY (1-4)
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.

OCE 3001 INTRODUCTION TO OCEANOGRAPHY (3)
Overview of biological, chemical, geological, and physical oceanography. Does not count as a Geology elective. (Also listed under Marine Science.)

GLY 5241 GENERAL GEOCHEMISTRY (3)
PR: One year college chemistry, GLY 4200 or CI. Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.

GLY 5245 ANALYTICAL TECHNIQUES IN GEOLOGY (4)
PR: One year college chemistry, GLY 4220 or CI. Use and application of modern analytical methods including X-ray, atomic absorption, and other geochemical techniques. Interpretation and statistical analysis of data acquired. Lec-lab.

GLY 5430 PRINCIPLES OF APPLIED GEOPHYSICS (4)
PR: Senior or advanced junior standing, one year of Physics or CI. Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to site investigation and mineral deposits. Lec-lab-field trips.

GLY 5615 ADVANCED STRATIGRAPHIC PALEONTOLOGY (3)
PR: GLY 4560, CI. Morphology, geologic distribution and stratigraphic ranges of important invertebrate guide fossils. Lec-lab-field trips.

GLY 5752 GEOLOGICAL FIELD EXCURSION (2)
PR: GLY 3400, GLY 4550, and GLY 4750. Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec-field trip.

GLY 5825 ADVANCED HYDROGEOLOGY (4)
PR: GLY 4820, MAC 3282 or MAC 3312 or CI. Flow systems, analytical and numerical solutions to ground water flow problems. Emphasis on the theoretical aspects of ground water flow systems and their interaction with the geologic framework. Lec-lab-field trips.

GLY 5890 STATISTICAL MODELS IN GEOLOGY (3)
PR: STA 3023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

GLY 5932 SELECTED TOPICS IN GEOLOGY (1-4)
PR: Senior or advanced junior standing and CI. Each topic is a course in directed study under supervision of a faculty member. All areas of geology included. Departmental permission required prior to registration.

MARINE SCIENCE

Graduate Courses

OCE 5050 BIOLOGICAL OCEANOGRAPHY (3)
PR: Graduate standing, CI. The study of life in the sea with reference to distribution, reproduction, adaptation, competition, and populations. Lec-lab.

OCC 5050 CHEMICAL OCEANOGRAPHY (3)
PR: CHM 2046 and CI. The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, modern methods of analysis in routine use in oceanography. Lec-lab.

OCC 5067 MARINE POLLUTION (3)
PR: OCC 5050 or CI. Marine pollutant sources, reservoirs, transport processes, and dynamics. Topics include heavy metals, chlorinated hydrocarbons, radionuclides, petroleum, pathways, and thermal pollution including functional and physiological responses of marine organisms.

OCE 3001 INTRODUCTION TO OCEANOGRAPHY (3)
Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geography.) Does not count as a geology elective.

OCC 5050 GEOLOGICAL OCEANOGRAPHY (3)
PR: Graduate standing or CI. An introduction to the physical, historical sedimentary, and structural geology of the ocean basins and their borders. Lec-lab.

OGC 5455 MARINE ISOTOPE GEOCHEMISTRY (3)
PR: Chemical Oceanography or CI. Study of stable and radiogenic isotope variations in the marine environment and the use of these variations as elemental tracers and in determining ages and rates and paleo-climatic conditions.

OCP 5051 PHYSICAL OCEANOGRAPHY (3)
PR: Graduate standing, CI, PHY 3042. The world ocean including its morphology, physical properties, currents, waves, tides, heat budget, and related topics. Lec-lab.

ZOO 5450C ICTHYOLOGY (4)
PR: CI or senior or graduate status; BSC 2010C, BSC 2012, PCB 4674 (helpful), ZOO 3510C (helpful). The evolution systematics, and ecology of fishes. (Also listed under Zoology.)

MATHEMATICS

COP 3215 COMPUTER APPLICATIONS OF MATHEMATICS -6A (3)
CR: MAC 3312 or CI. Computer applications to mathematics, especially calculus, with FORTRAN programming.

COP 4216 MATHEMATICAL PROBLEM SOLVING USING PASCAL -6A (3)
PR: CI or MAS 3103. The highly structured programming language
PASCAL is used to solve numerical and non-numerical problems in mathematics involving graph theory, combinatorics, and number theory. Non-numerical data structures and algebraic manipulation are emphasized.

**MAA 4211 ADVANCED CALCULUS I -6A**

PR: MAC 3313, with a grade of "C" or better; MTH 3102 and MAC 3103 or CI. Concepts of limit, continuity, differentiation, and integration of functions in one and several variables. Major topics include partial differentiation, Riemann-Stieljes integrals, improper integrals, infinite series, uniform convergence, implicit-function theorem, line and surface integrals, vector analysis.

**MAA 4212 ADVANCED CALCULUS II -6A**

PR: MAA 4211. Continuation of MAA 4211.

**MAA 5306 REAL ANALYSIS I**

PR: MAA 4212. Metric spaces, limits, continuity, differentiation, and integration on the real line.

**MAA 5307 REAL ANALYSIS II**

PR: MAA 5306. Continuation of MAA 5306.

**MAA 5405 APPLIED COMPLEX ANALYSIS**

Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

**MAA 5406 TOPOLOGY IN COMPLEX ANALYSIS**

PR: MAA 5405. Univalent functions, entire functions, approximation theorems in the plane.

**MAA 2114 COLLEGE ALGEBRA -6A**

PR: MAA 5306. Continuation of MAA 5306.

**MAC 2132 (formerly MAC 2132) COLLEGE ALGEBRA AND TRIGONOMETRY -6A**

PR: Two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus. Real numbers and their properties, algebraic expressions, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Not for math majors. (No credit for students with credit in MAC 2132.)

**MAC 2134 (formerly MAC 1114) COLLEGE TRIGONOMETRY -6A**

PR: Pass placement test. Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)

**MAC 2233 ELEMENTARY CALCULUS I -6A**

PR: Pass placement test in algebra. Students should have two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus or CC. Algebra, functions, differentiation, applications. MAC 2233-MAC 2234 is primarily for students from Biological Sciences, Social Sciences, and Business. (No credit for math majors or students with credit in MAC 2281 or MAC 2102.)

**MAC 2234 ELEMENTARY CALCULUS II -6A**

PR: MAC 2233. Antiderivatives, the definite integral, techniques of integration, logarithmic and exponential functions, applications. (No credit for Mathematics majors or students with credit in MAC 3282 or MAC 3312.)

**MAC 3281 ENGINEERING CALCULUS I -6A**

PR: MAC 2232 with a "C" or better or CC. Pass placement tests in algebra and trigonometry. Differentiation, limits, differentials, extreme, indefinite integral. (No credit for students with credit in MAC 2233 or MAC 3311.)

**MAC 3282 ENGINEERING CALCULUS II -6A**

PR: MAC 3281. Definite integral, trigonometric functions, log, expo

**MAC 3283 ENGINEERING CALCULUS III -6A**

PR: MAC 3282. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3313.)

**MAC 3311 CALCULUS I -6A**

PR: MAC 2132 with a grade of "C" or better or CC. Pass placement tests in algebra and trigonometry. Limits, derivatives, applications. (No credit for students with credit in MAC 2233 or MAC 3281.)

**MAC 3312 CALCULUS II -6A**

PR: MAC 3311 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, log, exponential and trig functions. (No credit for students with credit in MAC 2234 or MAC 3282.)

**MAC 3313 CALCULUS III -6A**

PR: MAC 3312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals. (No credit for students with credit in MAC 3312.)

**MAD 3100 DISCRETE MATHEMATICS -6A**

PR: MAC 3281 or MAC 3311 or CI. An introduction to the aspects of discrete mathematics which are fundamental to digital computation. Topics include graphs, coding theory, Boolean algebras, finite state automata, formal languages, groups, and other models of computation.

**MAD 4401 NUMERICAL ANALYSIS -6A**

PR: MAS 3103; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

**MAD 5101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS**

PR: Programming experience or CI. The powerful algebraic language LISP is introduced. The course covers (1) programming in LISP, (2) functional languages, (3) foundations in the Lambda Calculus, and (4) algebraic applications in artificial intelligence (theorem proving and game playing).

**MAD 5305 INTRODUCTION TO GRAPH THEORY**

PR: CC. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, network years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus or CC, pass placement test in algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)

**MAE 5874 ABSTRACT ALGEBRA FOR TEACHERS**

PR: MAS 3103 and MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for Mathematics majors.)

**MAE 5876 MATHEMATICAL ANALYSIS FOR TEACHERS**

PR: Mathematics or bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)

**MAP 4302 DIFFERENTIAL EQUATIONS -6A**

PR: MAC 3313. First order linear and nonlinear differential equations, higher order linear equations, applications.

**MAP 5205 MATHEMATICAL OPTIMIZATION THEORY I**

PR: MAC 3103 and MAA 4211, or equivalent. Contents: Unconstrained and linearly constrained extremum linear and nonlinear programming, application to matrices and quadratic forms, Lagrange multiplier rule for equality constraints.

**MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I**

PR: MAP 4302, MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

**MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II**

PR: MAP 5316 or MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenFunction expansions.
MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS (3)
PR: MAP 5407 and CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.

MAP 5407 METHODS OF APPLIED MATHEMATICS (3)

MAS 3103 LINEAR ALGEBRA -6A (3)
PR: MAC 3311 or CC. Vectors, matrices, systems of linear equations, linear transformations.

MAS 4124 NUMERICAL LINEAR ALGEBRA (3)
PR: MAS 3103. This course will consider efficient and stable numerical methods for dealing with matrix computations such as the solution of systems, calculation eigenvalues and vectors, least squares, and so on.

MAS 4156 VECTOR ANALYSIS -6A (2)
PR: MAC 3413. The algebra and calculus of vectors, applications, general coordinates, introduction to tensor analysis. (No credit for both MAA 2411 and MAS 4156.)

MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A (3)
PR: MHF 3102 or CC. Groups, rings, integral domains, fields, integers, the rational, real and complex number systems.

MAS 5107 ADVANCED LINEAR ALGEBRA (3)
PR: MAS 3103, MHF 3102, or CC. Vector spaces, linear independence, dimensions, matrices, linear transformations.

MAS 5215 NUMBER THEORY (3)
PR: CC. Congruences, quadratic residues, selected topics.

MAS 5311 ALGEBRA I (3)
PR: MAC 3313, MAS 5107, MHF 3102. An introduction to group theory.

MAS 5312 ALGEBRA II (3)
PR: MAS 5311. An introduction to Galois theory.

MAT 2930 SELECTED TOPICS IN MATHEMATICS (1-4)
PR: CI. The course content will depend on the interest of faculty members and student demand.

MAT 4906 INDEPENDENT STUDY -6A (3)
PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Natural Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

MAT 4930 SELECTED TOPICS IN MATHEMATICS -6A (1-4)
PR: CI. The course content will depend on the interest of faculty members and student demand.

MAT 4937 MATHEMATICS MAJORS SEMINAR -6A (1)
Directed discussions on a variety of topics of interest to math majors, including career opportunities in mathematics. May be repeated up to 2 credit hours. (S/U only)

MAT 4939 MATHEMATICS HONORS SEMINAR -6A (1)
PR: Admission to Mathematics Honors Program or CC. Directed discussions on a variety of topics of mathematical interest. May be repeated up to 8 credit hours. (S/U only)

MAT 4970 MATHEMATICS SENIOR THESIS -6A (3)
PR: Admission to Mathematics Honors Program and CC. Course restricted to mathematics majors. (S/U only)

MAT 5932 SELECTED TOPICS (1-4)
PR: Senior or Junior Standing and CC. Each topic is a course of study. 01-History of Mathematics, 03-Logic and Foundations, 05-Number Theory, 07-Topics in Algebra, 09-Mathematics for Physics, 11-Topics in Probability and Statistics, 13-Topics in Analysis, 15-Topics in Topology.

MGF 2130 MODERN MATHEMATICS WITH MICROCOMPUTERS -6A (4)
PR: Same as for MGF 2202. Topics in finite math, real vs. computer number systems, inequalities, functions, graphs, introduction to basic programming and microcomputers, exact and approximate solutions of algebraic equations, probability, computer simulations of models.

MGF 2202 FINITE MATHEMATICS -6A (3)
PR: Passing score on placement test. Students should have the equivalent of two years high school math including one year of algebra or HCC Mathematics course MAT 1033 taught on USF campus. Linear functions, matrices and systems of linear equations, linear programming, logic sets, permutations and combinations, introduction to statistics, introduction to probability.

MHF 3102 SET THEORY -6A (3)
PR: MAC 3311 or CC. Relations, functions, order, cardinal numbers.

MHF 5306 ELEMENTARY MATHEMATICAL LOGIC (3)
PR: CC. Truth tables, tautologies, quantifiers, rules of inference, informal proofs in mathematics.

MHF 5404 HISTORY OF MATHEMATICS (3)
PR: MAC 3313. Traces the development of mathematical ideas through history. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MTG 3204 INFORMAL GEOMETRY -6A (3)
Concepts of length, congruence, similarity, transformations in the plane, ruler and compass constructions, impossible constructions; coordinate systems, graphs, lines and curves. (Open only to Elementary Education majors.)

MTG 4212 GEOMETRY -6A (4)
PR: MAC 3311. Emphasis on axioms, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.

MTG 5316 TOPOLOGY I (3)

MTG 5317 TOPOLOGY II (3)
PR: MTG 5316. Continuation of MTG 5316.

STA 3023 INTRODUCTION TO STATISTICS I -6A (4)
Hypothesis testing, estimation; normal, Chi-square, t, F, binomial, multinomial distributions; ANOVA, CR, RCB designs; single df, regression, correlation, contingency tables. Students who successfully complete this course may not also receive credit for ECO 4402, GEB 2111 or STA 3122. (No credit for Mathematics Majors.)

STA 3024 INTRODUCTION TO STATISTICS II -6A (4)
PR: STA 3023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.

STA 3404 ELEMENTARY PROBABILITY -6A (3)
Counting techniques, probability, expectation, probability distributions, the law of large numbers. (No credit for Mathematics majors. Credit for Department of Biology majors.)

STA 4321 INTRODUCTION TO STATISTICS -6A (3)

STA 4442 INTRODUCTION TO PROBABILITY -6A (3)
PR: MAC 3313, MHF 3102. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities including normal, gamma, x² (Greek letter Chi), and Weibull, and transformations of random variables.

STA 5166 COMPUTATIONAL STATISTICS I (3)
PR: STA 4321, MAT 4930 or CC. Statistical Analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on interrelation between statistical theory, numerical methods, and analysis of real life data.

STA 5206 STOCHASTIC PROCESSES (4)
PR: STA 5447. Basic concepts of stochastic processes, finite Markov chains, random walks with applications to life sciences and engineering.

STA 5326 MATHEMATICAL STATISTICS (4)
PR: STA 5447. Sample distribution theory, point & interval estimation theory, and theory of hypothesis testing.
MLS 4625C CLINICAL CHEMISTRY I (6)

MLS S. Pemberton (Bayfront Medical Center), L. B. Burgert (Tallahassee Memorial Regional Medical Center), L. J. Davis, W. Potter; R. W. Flynn, N. C. Haldor, W. D. Jones, H. W. Kendall, N. L. Olsen, S. Sundaram Professor Emeritus; G. Forman Associate Professor; J. L. Aubel, H. R. Brooker, R. W. Clapp, Jr., W. H. Kruschwitz; Assistant Professor; R. J. Berkley Lecturer; J. D. Spagin, J. E. Turberville; Visiting Assistant Professor: M. E. Mertz, K. Windmeier.

PHS 3102 PROBLEMS IN GENERAL PHYSICS I (1)
PR: PHY 3041. First semester of two semester sequence of general physics problems. A course designed to allow those interested students to investigate problems not covered in the general physics course. Lec. Semesters: Fall, Spring.

PHS 3103 PROBLEMS IN GENERAL PHYSICS II (1)

PHS 4814 FUNDAMENTAL ACOUSTICS (3)
PR: PHY 3223 or CI. Vibrations of elastic media, sound generation and propagation. Acoustical, electrical, and mechanical energy conversion. Underwater acoustics. Fall Semester.

PHS 5113 METHODS OF THEORETICAL PHYSICS I (3)
PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus. Fall Semester.

PHS 5114 METHODS OF THEORETICAL PHYSICS II (3)
PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory. Spring Semester.

PHYSICS

PHYSICS 203
PHY 3020 CONCEPTUAL PHYSICS (4)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics or mathematics majors.) Semesters: Fall, Spring, Summer.

PHY 3040, 3040L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3281 or MAC 3311. First semester of a two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 3041, 3041L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3282 or MAC 3312, PHY 3040, PHY 3040L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 3123 MODERN PHYSICS (3)

PHY 3223 MECHANICS I (3)
CR: MAC 3283 or MAC 3313 and either PR: PHY 3040 or PHS 3101. First semester of a two semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work. Fall Semester.

PHY 3323C ELECTRICITY AND MAGNETISM I (4)
PR: PHY 3041, MAC 3283 or MAC 3313. Electromagnetic circuits; resistance, capacitance, inductance, direct and alternating current circuits, thermostelet汉语语和 instrumentation. Laboratory. First semester of sequence PHY 3323C, PHY 4324. Spring Semester.

PHY 3424 OPTICS (4)
PR: PHS 3101 or PHY 3041; CR: MAC 3283 or MAC 3313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory. Fall Semester.

PHY 3822L INTERMEDIATE LABORATORY (2)
PR: PHS 3101 or PHY 3041 or equivalent. Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena. Fall Semester.

PHY 4224 MECHANICS II (3)
PR: PHY 3223; CR: MAP 4302. Continuation of PHY 3223. Coupled oscillators and normal modes; moving coordinate systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies. Spring Semester.

PHY 4324C ELECTRICITY AND MAGNETISM II (4)

PHY 4526 STATISTICAL PHYSICS (3)

PHY 4604 QUANTUM MECHANICS I (3)
PR: PHY 3123 or CR: Postulates, Schrodinger's equation, onedimensional problems, matrix mechanics, uncertainty principle, angular momentum, and central forces. First semester of sequence PHY 4604, PHY 5624. Fall Semester.

PHY 4744C ELECTRONICS FOR RESEARCH (3)
PR: General Physics or CR: Direct and alternating current circuits, transistors, rectification, amplification; feedback, pulse circuits, and integrated circuits, laboratory. (No credit for physics or mathematics majors.) Semesters: Fall, Spring.

PHY 4823L ADVANCED LABORATORY (2)
PR: PHY 3822L. Experimental work primarily related to nuclear physics. Emphasis on modern physical experimental techniques employing some of the new types of equipment. Spring Semester.

PHY 4905 INDEPENDENT STUDY (1-3)
PR: Specialized, independent study determined by the student's need and interest. The written contract required by the College of Natural Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

PHY 4910 UNDERGRADUATE RESEARCH (1-4)
PR: Senior or advanced junior standing and CC. An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement. (S/U only.) Semesters: Fall, Spring, Summer.

PHY 4930 PHYSICS SEMINAR (1)
PR: Senior or advanced junior standing or CC. An individual study and under the supervision of a faculty member.

PHY 4936 SELECTED TOPICS IN PHYSICS (1-4)
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.

PHY 5624 QUANTUM MECHANICS II (3)
PR: PHY 4604 or CR: Symmetries, identical particles, scattering approximation methods, Dirac equation, field quantizations. Spring Semester.

PHY 5722C ELECTRONICS (4)

PHY 5937 SELECTED TOPICS IN PHYSICS (1-4)
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.
COLLEGE OF NURSING

NURSING

Instructors: A. Amos, K. Echevarria, M. Long, M. Tittle, M. VanCott; Lecturer: M. Dunn.

HUN 3201 NUTRITION
PR: Course work in chemistry and biology or, permission of faculty. Open to majors and non-majors. The study of fundamental principles of normal nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.

NUR 5810 INTRODUCTION TO NURSING RESEARCH
PR: Satisfactory completion of a course in elementary statistics and/or permission of the faculty. This course will introduce the research process and provide an understanding of the use of nursing research in the improvement of nursing practice. Content focuses on critiquing and analyzing nursing research and applying it. Ethical and legal issues which affect nursing research will be examined.

NUR 5870 COMPUTER APPLICATIONS IN NURSING
Explore applications of the computer as a tool to increase the productivity of the nurse in research, practice, management, and education. Available to majors.

NGR 5935 ETHICS IN HEALTH CARE
PR: Permission of the instructor. Theories and concepts of ethics as applied to health care are presented through lecture and discussion. Contemporary issues are analyzed in terms of their implications for health care providers. Majors and non-majors.

NGR 5949C UNDERGRADUATE/GRADUATE TRANSITION COURSE IN NURSING
PR: Baccalaureate degree; currently licensed R.N., and faculty permission. Examine and clinically apply basic theoretical concepts and principles underlying first level professional nursing.

NUR 3007 NURSING PROCESS
PR: RN student. PR or COR: NUR 3722C. This course focuses on the nursing process and explores in depth the five phases, assessment, analysis, planning, implementation, and evaluation, as they apply to the care of clients.

NUR 3066C CLIENT ASSESSMENT I
PR: Admission to nursing major or permission of faculty. Introduces knowledge and skills essential for biopsychosocial assessment of individual clients in both primary, secondary, and tertiary care settings with emphasis on history-taking and physical assessment. Includes practice of physical assessment skills.

NUR 3067C CLIENT ASSESSMENT II
PR: Permission of faculty. Expands knowledge and skills essential for biopsychosocial assessment of needs of clients and families in primary, secondary, or tertiary care settings with emphasis on data collection from secondary sources and interpretation of data with respect to clients' nursing needs.

NUR 3117 INTRODUCTION TO PROFESSIONAL NURSING
PR: Admission to nursing major or permission of faculty. The first of a series of courses that focus on progressive development of professional nursing roles and responsibilities and its relationship to the role of other health care and related professionals. Includes examination of theories relevant to professional nursing practice (communication, systems, leadership, ethics, scientific methodology, role learning, change, stress), historical development of nursing, and trends in nursing and health care, and ethical-legal aspects of health care.

NUR 3456 NURSING PROCESS II
PR: Permission of faculty. Development of the nursing process as it relates to normal and high risk childbearing families, maturing years. Essential psychomotor skills will be included.

NUR 3456L NURSING INTERVENTION II
PR: Permission of faculty. Clinical nursing practice linked with Nursing Process II and focuses on maturing families and their health needs. Incorporates psychomotor skills, nutrition pharmacology, psychosocial and community aspects.

NUR 3536 NURSING PROCESS III
PR: Permission of faculty. Development of nursing process as it relates to mental health-psychiatric nursing needs of clients. Integrates knowledge and skills of mental health psychiatric nursing process needs of clients of all ages. Includes pathology, nutrition, pharmacology, psychosocial and community aspects.

NUR 3615 NURSING PROCESS I
PR: Permission of faculty. Introduction to the nursing process and its application to stable families and childbearing rearing years. Essential psychomotor skills will be included.

NUR 3615L NURSING INTERVENTION I
PR: Permission of faculty. Clinical nursing practice force on healthy families in a variety of settings (linked to Nursing Process I). Incorporates psychomotor skills, nutrition pharmacology, psychosocial and community aspects.

NUR 3654 (formerly NUR 4654) NURSING CONCEPTS IN SECONDARY CARE
PR: RN Student; CL: The focus of this course is on the concepts, theory, and principles underlying the clinical nursing management of clients/patients of all ages with health illness problems.

NUR 3654L (formerly NUR 4654L) NURSING PRACTICUM I
PR: RN student; CL. The focus of this course is on the implementation of concepts, theory and principles underlying the clinical nursing management of clients/patients of all ages with health illness problems.

NUR 3829 ETHICAL-LEGAL ASPECTS IN NURSING AND HEALTH CARE
PR: Permission of faculty. Continuation of previous Core course.

NUR 3835 LEADERSHIP MANAGEMENT ASPECTS IN NURSING AND HEALTH CARE
PR: Permission of faculty. Continuation of previous core courses.

NUR 4075 TRANSCULTURAL NURSING
Open to both students and caregivers in health-related fields. Designed to assist students to become aware of own values as related to various cultural groups and to identify health practices and beliefs of these groups, health resources available and adaptive measures by caregivers to meet their needs.

NUR 4165 INTRODUCTION TO RESEARCH
PR: Permission of faculty. Continuation of previous core courses with emphasis on issues and trends related to nursing roles in the
NUR 4256 NURSING PROCESS V (2) PR: Permission of faculty. Introduction to nursing with clients in secondary and tertiary care settings, including fluid and electrolyte balance, surgical care cycle and disturbances in cell growth and proliferation. Includes pathophysiology, nutrition, psychosocial aspects, pharmacology and psychomotor skills.

NUR 4256L NURSING INTERVENTION V (4) PR: Permission of faculty. Clinical nursing practice in secondary care settings (linked to Nursing Process V). Includes essential psychomotor skills, pharmacology, nutrition, and psychosocial health aspects.

NUR 4257 NURSING PROCESS VI (2) PR: Permission of faculty. Development of the nursing process for clients of all ages (including mother and infants) with problems arising from electrolyte, metabolic, endocrine and genitourinary disturbances. Integrates pathophysiology, essential psychomotor skills, nutrition, pharmacology, psychosocial and community health aspects.

NUR 4257L NURSING INTERVENTION VI (6) PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process VI, VII, VII) with clients of all ages arising from interferences in metabolic and regulatory functions, oxygenation, mobility and sensory perception.

NUR 4258 NURSING PROCESS VII (2) PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from disturbances in oxygenation. Integrates pathophysiology, nutrition, pharmacology, psychosocial, essential psychomotor skills and community health aspects.

NUR 4258L NURSING INTERVENTION VII (2) PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process VII) with clients of all ages with problems arising from disturbances in oxygenation. Includes essential psychomotor skills, pathophysiology, nutrition, pharmacology, psychosocial and community health aspects.

NUR 4265 NURSING PROCESS VIII (2) PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from disturbances in coordination, perception, or sensory function. Integrates pathophysiology, nutrition, essential psychomotor skills, pharmacology, psychosocial and community aspects.

NUR 4285 NURSING PROCESS IV (1) PR: Permission of faculty. Introduces the knowledge and skills essential to the well elderly in primary care settings. Included are theories, biopsychosocial assessment, development of therapeutic relationships, nutritional, psychosocial, and socioeconomic factors affecting the health and care of the elderly.

NUR 4285L NURSING INTERVENTION IV (1) PR: Permission of faculty. Clinical nursing experience in primary care settings. Includes use of multiple essential assessment skills, development of therapeutic relationships, nutrition and psychosocial health aspects with well elderly.

NUR 4641 (formerly NUR 3641) NURSING CONCEPTS IN PRIMARY CARE (4) PR: RN student; CI. Focuses on concepts and principles essential to nursing of clients across the lifespan in the community setting.

NUR 4641L (formerly NUR 3641L) NURSING PRACTICUM II (3) PR: RN; CI. Integrates the concepts and content from NUR 4641 with clients across the lifespan into clinical settings which include public health agencies, VNA, and home health agencies.

NUR 4827C LEADERSHIP/MANAGEMENT CONCEPTS FOR NURSING PRACTICE (4) PR: CI. Provides a basis for developing leadership skills and management techniques with individuals and groups in selected health care settings.

NUR 4837 NURSING CORE V (3) PR: Permission of faculty. Continuation of previous core courses with continued research emphasis and seminars related to problems of transition from student to practitioner including reality shock, use of supervision, self-evaluation, professional development and setting career goals.

NUR 4905C INDEPENDENT STUDY (1-5) PR: Permission of faculty. Open to majors and non-majors. Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor. May be repeated to maximum of 5 credits.

NUR 4935 SELECTED TOPIC IN NURSING (2-8) PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory and may be repeated for different topics.

NUR 4943L NURSING PRACTICUM III (4) PR: All preceding courses in prescribed curriculum plan or permission of Dean. Individually planned experience in a clinical and/or functional area of professional nursing which is related to student's professional goals. Associated seminars and/or institutes (S/U only).

NUR 4946L PRECEPTORSHIP (6) PR: Permission of faculty. Concentrated clinical nursing practice (preceptorship) under faculty guidance. The nature and goals of the experience will be determined collaboratively by students, faculty and personnel from cooperating agencies where students elect experience.

COLLEGE OF PUBLIC HEALTH

GENERAL PUBLIC HEALTH COURSE

PHC 4100 INTRODUCTION TO PUBLIC HEALTH (3) A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.
AFRICAN AND AFRO-AMERICAN STUDIES

Director: F.I. Ohaegbulem; Professor: F.I. Ohaegbulem; Associate Professors: Nola A. Allen, K.R. Glover, J.C. Renick; Other Faculty: P. Taylor.

AFA 4201 INTRODUCTION TO AFRO-AMERICAN STUDIES (3)

AFA 4150 AFRICA AND THE UNITED STATES (3)
An examination of the historical and political, economic, and cultural relations between the United States and Africa. (Also listed under International Studies.)

AFA 4331 SOCIAL INSTITUTIONS AND THE GHETTO (3)
A study of social institutions as they relate to the American Black ghetto, with emphasis on social systems operating within and on the ghetto.

AFA 4335 BLACK WOMEN IN AMERICA (3)
PR: WST 2010 or 2011, or AFA 2011, or CI. An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths and realities surrounding that experience. (Offered for credit in Women's Studies or African and Afro-American Studies.)

AFA 4900 DIRECTED READINGS (2-3)
Independent readings in a particular area of African and Afro-American Studies, selected by student and instructor.

AFA 4931 SELECTED TOPICS IN AFRO-AMERICAN STUDIES (1-3)
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

AFH 3100 INTRODUCTION TO AFRICAN HISTORY (3)
An outline survey of pre-colonial African history including a preface to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also listed under History.)

AFH 3200 AFRICAN HISTORY SINCE 1850 (3)
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states and post independence problems of nation building and economic development. (Also listed under History.)

AFH 5205 SEMINAR: AFRICA FROM COLONIAL TIMES TO THE PRESENT (3)
PR: CI. An in-depth examination of Africa's colonial heritage and post independence efforts at nation building, economic development and eradication of the remnants of colonialism, and other topics such as relations between African states and the former colonial powers and other major world powers.

AFH 5295 SEMINAR: AFRICA, CONTEMPORARY ISSUES (3)
PR: CI. An in-depth examination of major contemporary social and political issues in the African continent including their domestic and international dimensions.

AFS 3311 THE AFRICAN DIASPORA AND PAN-AFRICANISM (3)
An examination of the African Diaspora and the influence of African culture and civilization on the growth and development of world culture; and the historical quest for racial and continental pan-Africanism including Garveyism.

AMH 3571, 3572 AFRO-AMERICAN HISTORY (3, 3)
A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America (AMH 3571, 1943-1965; AMH 3572 1965 to present.)

CPO 4204 GOVERNMENT AND POLITICS OF AFRICA (3)
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

CPO 4244 GOVERNMENT AND POLITICS OF EAST, CENTRAL AND SOUTHERN AFRICA (3)
In depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority role in Southern Africa.

CPO 4254 GOVERNMENT AND POLITICS OF WEST AFRICA (3)
In depth study of government, political systems and processes in West Africa including political developments, ideologies, problems and prospects of political and economic development and military regimes in the area.

ECP 4143 BLACK AMERICANS IN THE AMERICAN ECONOMIC PROCESS (3)
Brief economic history of Black Americans emphasizing the impact of racial discrimination and evaluating proposals for improvement as they apply to Black Americans and other minority groups.

HUM 3420 ARTS AND MUSIC OF THE AFRICAN PEOPLE (3)
An examination of the visual arts painting, sculpture, architecture and music of Sub-Saharan Africa; their meaning and impact on the arts and music of the Western World.

INR 5257 SEMINAR: AFRICA AND THE UNITED STATES IN WORLD AFFAIRS (3)
PR: CI. An in-depth examination of African-American relations since colonial days in the New World and in Africa with emphasis on the post World War II period.

PHM 4120 CONTEMPORARY BLACK PHILOSOPHY (3)
Major themes and participants in the Black liberation movement since 1900.

PUP 3313 BLACKS IN AMERICAN POLITICAL PROCESS (3)
An examination of the political experience of blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process.

SSI 5934 SELECTED TOPICS (1-3)
PR: CI plus senior standing or graduate status. May be repeated. To provide advanced students with interdisciplinary study of selected topics. (Also offered under Social Sciences Interdisciplinary.)
ANTHROPOLOGY


ANT 1001 THE HUMAN ADVENTURE (2)
This course examines the anthropological evidence relevant to controversial questions concerning human origins, social practices, human and animal communication, and ancient societies. Not for major credit.

ANT 2000 INTRODUCTION TO ANTHROPOLOGY (3)
The cross-cultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: Physical anthropology (human biology), archaeology (the analysis of the prehistoric and historic remains of human cultures), anthropological linguistics (the analysis of language in its cultural context), and cultural anthropology (the cross-cultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).

ANT 3005 THE ANTHROPOLOGICAL PERSPECTIVE (3)
For non-anthropology majors only. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist’s cross-cultural view of the human species as adapting through biosocial means to life on this planet. May not be counted for credit toward an anthropology major.

ANT 3100 ARCHAEOLOGY (3)
Pr: ANT 2000 or Cl. The cross-cultural study of humankind from its beginnings up to and including the historic period through the recovery, description, an analysis of the remains of past cultures and societies.

ANT 3410 CULTURAL ANTHROPOLOGY (3)
Pr: ANT 2000 or Cl. Discussion of major methods of and orientations to the cross-cultural study of the world’s peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifestyles.

ANT 3511 BIOLOGICAL ANTHROPOLOGY (3)
Pr: ANT 2000 or Cl. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.

ANT 3610 ANTHROPOLOGICAL LINGUISTICS (3)
Pr: ANT 2000 or Cl. The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

ANT 4034 THEORIES OF CULTURE (3)
Pr: Senior standing with major in anthropology or equivalent. The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

ANT 4124 ARCHAEOLOGICAL FIELD METHODS (4)
Pr: ANT 3100 or Cl. Normally offered as part of a Summer Field Session. Students also take Florida Archaeology and Laboratory Methods in Archaeology. Emphasis on appropriate methods of archaeological excavation and recovery and recording of data.

ANT 4133 UNDERWATER ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. Methods, theory, and history of underwater archaeology. Diving history and physiology are considered. Emphasis on underwater archaeology as anthropology and the management of underwater archaeological resources.

ANT 4153 NORTH AMERICAN ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. An examination of the evidence regarding the human settlement of North America from its beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

ANT 4158 FLORIDA ARCHAEOLOGY (4)
Pr: ANT 3100 or Cl. The content of prehistoric cultures such as PaleoIndian, Weeden Island, and Safety Harbor are reviewed and examined in terms of their temporal and spatial relationships to each other and the Eastern U.S. Normally offered as part of a Summer Field Session. Students also take Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4162 SOUTH AMERICAN ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mocheica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4163 MESOAMERICAN ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 HISTORICAL ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classroom.

ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. Normally offered as part of a Summer Field Session. Students also enroll in Florida Archaeology and Field Methods in Archaeology. Data recovered in excavation are cleaned, catalogued, identified, and analyzed in the laboratory.

ANT 4181 MUSEUM METHODS (4)
Pr: ANT 3100 and Cl. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

ANT 4182 CURRENT ARCHAEOLOGY (3)
Pr: ANT 3100 or Cl. Focuses on the development of current archaeological method and theory. Examines the relationship between archaeology and the other branches of anthropology.

ANT 4226 FOLK AND TRIBAL ARTS (3)
Pr: ANT 3100 or Cl. An examination of the relationship between the visual arts (sculpture, painting, masks, carving, etc.) and culture in non-Western societies. Emphasis on formal symbolic and functional comparative analysis of specific art styles based on cross-cultural materials. Consideration of diffusion and change of art forms, commercial and ethnic arts, and role of the artist.

ANT 4231 FOLKLORE (3)
Pr: ANT 3410 or Cl. Focuses on cross-cultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture. African (or African-derived), Oceanic and Native American societies are surveyed.

ANT 4241 MAGIC AND RELIGION (3)
Pr: ANT 3410 or Cl. The cross-cultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and symbols of belief will be considered in light of their impact on the social, political or economic aspects of peoples’ lives.

ANT 4302 GENDER STUDIES (3)
Pr: ANT 3410 or Cl. Focuses on various theoretical, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (Also offered under Women’s Studies.)

ANT 4303 VISUAL ANTHROPOLOGY (3)
Pr: ANT 3410 or Cl. The use of photographic techniques for the
crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of "visual literacy." Review and evaluation of the uses of visual techniques and evidence provided to the research scientist.

ANT 4312 NORTH AMERICAN INDIANS
PR: ANT 3410 or Cl. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

ANT 4316 THE UNITED STATES
PR: ANT 3410 or Cl. Special concerns include the American community, change and continuity in American values and lifestyles, and the historical background and recent manifestations of human problems in the United States.

ANT 4326 MEXICO AND CENTRAL AMERICA
PR: ANT 3410 or Cl. Focuses on the history, contemporary values and intercultural relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

ANT 4340 THE CARIBBEAN
PR: ANT 3410 or Cl. Main themes include the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnographic heterogeneity; economic problems of Third World microstates; development of a modern society and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed.

ANT 4367 THE MIDDLE EAST
PR: ANT 3410 or Cl. Delineates the environment and cultural ecology of the Middle East and analyzes how they have influenced the variety of subcultures of the region. The rise and fall of the "lit­ter tradition" of enduring folk cultures will be analyzed. Contemporary culture change will be analyzed in a temporal perspective.

ANT 4432 THE INDIVIDUAL AND CULTURE
PR: ANT 3410 or Cl. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

ANT 4442 URBAN LIFE AND CULTURE
PR: ANT 3410 or Cl. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

ANT 4462 HEALTH, ILLNESS, AND CULTURE
PR: ANT 3410 or Cl. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.

ANT 4495 METHODS IN CULTURAL RESEARCH
PR: Cl. Clinical training in the collection and analysis of ethnological research is discussed and practiced. Literature search, hypothesis formulation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

ANT 4542 CULTURE AND HUMAN EVOLUTION
PR: ANT 3510 or Cl. A survey of the many ways in which behavior and technology influence the biology of prehistoric and modern human populations. Phenomena such as mating practices, urbanization, and dietary habits are related to humans as animals. Behavior genetics and sociobiology are covered.

ANT 4552 EVOLUTIONARY BIOLOGY OF THE PRIMATES
PR: ANT 3510 or Cl. A survey of non-human primates focusing on biological and evolutionary patterns. Anatomy, genetics, and evolution are stressed; major primate types are surveyed for their biological adaptation. Primate sociobiology is discussed.

ANT 4583 HUMAN VARIATION
PR: ANT 3511 or Cl. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.

ANT 4586 PREHISTORIC HUMAN EVOLUTION
PR: ANT 3511 or Cl. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Biocultural patterns and cultures of the past are also covered.

ANT 4620 LANGUAGE AND CULTURE
PR: ANT 3610 or Cl. Examines the relationships between language and culture in crosscultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

ANT 4705 APPLIED ANTHROPOLOGY
PR: ANT 3410 or Cl. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

ANT 4723 EDUCATION IN CROSSCULTURAL PERSPECTIVE
PR: ANT 3410 or Cl. Examines the processes through which human beings learn to become functioning members of a society. Crosscultural analysis of patterns of education based on crosscultural data. Discussion of problems of minority education and the teaching of anthropology in primary/secondary schools.

ANT 4750 LANGUAGE AND SOCIAL INTERACTION
PR: ANT 3410 or Cl. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the crosscultural description and analysis of patterns of communication in ethnographic contexts.

ANT 4901 DIRECTED READING
PR: Cl. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 4902 INDIVIDUAL RESEARCH
PR: Cl. Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY
PR: Cl. Topics to be chosen by students and instructor permitting newly developing subsidisciplinary special interests to be explored. May be repeated as topics vary.

ANT 4935 RETHINKING ANTHROPOLOGY
PR: Senior standing with major in anthropology, or equivalent. Through discussion of readings and student papers, students rethink and reevaluate anthropology as a discipline and the integration of its branches and specialty fields. Students develop and articulate their current images of anthropology.

ANT 5904 DIRECTED READING
PR: Cl. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 5915 INDIVIDUAL RESEARCH
PR: Cl. Individual guidance in a selected research project. Contract required prior to registration.

ANT 5937 SEMINAR IN ANTHROPOLOGY
PR: Graduate standing. Topics to be chosen by students and instructor.

MUIH 4521 FOLK MUSIC
PR: ANT 3410 or Cl. Examines ethnic musics in America, emphasizing the functions of folk music in rural and urban settings. Materials drawn crossculturallly are studied in both religious and secular forms. When feasible, classwork is supplemented by live performances. Technical knowledge of music is not required. (May be counted for credit toward an Anthropology major.)
COMMUNICOLGY

Chairperson: S.W. Kinde; Professors: A. M. Guilford, S. W. Kinde, L. H. Ricker, S. I. Ritterman, D. C. Shepherd; Associate Professors: J. B. Crettenden, J. F. Scheuerle, W. Strange; Assistant Professors: P. A. Gordon; Instructors: R. L. Erickson, C. C. Thomas. The staff includes other full-time employees.


SPA 3020 INTRODUCTION TO COMMUNICATION DISORDERS (4)
The scope of speech pathology as a profession and a field of study. An introduction to speech and language disorders (articulation, stuttering, voice, aphasia, etc.): etiologies, major treatment approaches, and research findings.

SPA 3080 INTRODUCTION TO RESEARCH PROCEDURES IN COMMUNICOLGY (4)
Perspective on research in speech pathology and audiology. Introduction to multivariate design and reconsiderations as they apply to research in speech and hearing laboratory and clinical settings. Analysis of basic hypothesis testing.

SPA 3110 INTRODUCTION TO HEARING SCIENCE (4)
The scope of audiology as a profession and field of study. An introduction to the study of hearing impairments: classifications, etiologies, major treatment approaches, and research findings.

SPA 3117 INTRODUCTION TO SPEECH SCIENCE (4)
Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

SPA 4004 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS (3)
PR: Cl. An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders.

SPA 4040 STRUCTURE OF SIGN LANGUAGE (3)
PR: Cl. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.

SPA 4050 INTRODUCTION TO PRACTICUM (1-12)
Observation and participation in speech pathology and audiology practicum in the University clinical laboratory.

SPA 4250 COMMUNICATION DISORDERS I: VOICE/ARTICULATION/STUTTERING (3)

SPA 4255 COMMUNICATION DISORDERS II: CEREBRAL PALSY/CLEFT PALATE/APHASIA (3)
PR: LIN 3010, LIN 4040, LIN 4710 and admission to program. An introduction to communication disorders associated with the peripheral speech mechanism (articulation, voice, etc.); identification, etiologies, and major treatment approaches.

SPA 4333 INTRODUCTION TO AMERICAN SIGN LANGUAGE (1)
Introduction to the elements of body language, gesture, and facial expression as related to manual communication. Also discusses aspects of physical contact as a communication tool. Open to interested nonmajors as well as Communicology majors.

SPA 4334 FUNDAMENTALS OF FINGERSPELLING (2)
PR: Cl. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

SPA 4336 BASIC AMERICAN SIGN LANGUAGE (2)
Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour laboratory course (SPA 5380) to be taken concurrently. Open to all majors.

SPA 4363 NATURE AND NEEDS OF HEARING IMPAIRED (4)
A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.

SPA 4930 SELECTED TOPICS (3)
PR: Cl. Intensive study of topics in Speech Pathology, Audiology, and/or Aural (Re)Habilitation (Deaf Education) conducted under the supervision of a faculty member. May be repeated for a total of 9 credit hours.

SPA 5132 AUDIOLOGY INSTRUMENTATION (4)
PR: Cl. Calibration, usage and specific applications of specialized instruments available in dealing with the identification and measurement of hearing disorders.

SPA 5150 ADVANCED SPEECH SCIENCE (3)
PR: SPA 3117 or equivalent. Must be taken with SPA 5150L: Speech Science Laboratory. Advanced study of the acoustics, Production and Perception of normal disordered speech.

SPA 5150L SPEECH SCIENCE LABORATORY (1)
PR: SPA 3117 or equivalent. Must be taken with SPA 5150 Advanced Speech Science Laboratory exercises in the use of audio recording, acoustic analysis and synthesis instrumentation.

SPA 5201 COMMUNICATION DISORDERS: ARTICULATION (3)
PR: Cl. An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

SPA 5210 COMMUNICATION DISORDERS: VOICE (3)
PR: Cl. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 5222 COMMUNICATION DISORDERS: STUTTERING (3)
PR: Cl. A comprehensive study of the diagnosis and modification of stuttering based on a two-factor model. Other major theories are considered and evaluated.

SPA 5303 AUDIOLOGY: HEARING SCIENCE (4)
The study of the physiological acoustics of the auditory periphery; the neuroanatomy and electrophysiology of the central auditory system; and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.

SPA 5312 PERIPHERAL AND CENTRAL AUDITORY TESTS (4)
PR: Cl. The study of behavioral and electrophysiologic clinical tests designed to assess the function of the peripheral and the central auditory system. Tests which incorporate non-speech stimuli and those which utilize speech stimuli will be included.

SPA 5380 AMERICAN SIGN LANGUAGE LABORATORY (1)
A laboratory course designed to offer students added practice with the material being presented in the manual communications coursework through video and audio tapes. To be taken concurrently with each level of manual communication.

SPA 5384 INTERMEDIATE AMERICAN SIGN LANGUAGE (4)
PR: SPA 4336 and Cl. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour laboratory course (SPA 5380) to be taken concurrently.

SPA 5388 ADVANCED AMERICAN SIGN LANGUAGE (4)
PR: SPA 5384 and Cl. A continuation of the study of American
CRIMINOLOGY


CCJ 3003 CRIME AND JUSTICE IN AMERICA (4)
A non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with criminal offenders and victims of crime. May be taken by both majors and non-majors for credit, subject to departmental approval for declared majors.

CCJ 3020 SURVEY OF THE CRIMINAL JUSTICE SYSTEM (3)
PR: PSY 2012, SOC 2000, or equivalent, or CI. An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

CCJ 3280 CRIMINAL LAW I (3)
PR: CCJ 3020, POS 2041 or Cl. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.

CCJ 3620 THEORIES OF CRIMINAL BEHAVIOR (3)
PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3621 PATTERNS OF CRIMINAL BEHAVIOR (3)
Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offenses, syndicated (organized) crimes, sensational crimes, female crime, political crime, and will examine criminal career data. Subject to departmental approval for required credit.

CCJ 3701 RESEARCH METHODS IN CRIMINAL JUSTICE I (3)
PR: Junior standing and CCJ 3020 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS (3)
Provides a comprehensive examination of the American law enforcement system at the federal, state, and local levels and an assessment of career opportunities within the community.

CCJ 4283 CRIMINAL LAW II (3)
PR: CCJ 3280. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CCJ 4330 ALTERNATIVES TO INCARCERATION (3)
PR: Junior standing plus CCJ 4360 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.

CCJ 4340 INTERVENTION TECHNIQUES AND STRATEGIES (3)
PR: Senior standing or CI. Introduces the student to theories and methods underlying treatment modalities currently employed in intervention.

CCJ 4360 AMERICAN CORRECTIONAL SYSTEMS (3)
PR: Junior standing plus CCJ 3620 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

CCJ 4450 CRIMINAL JUSTICE ADMINISTRATION (3)
This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4501 JUVENILE JUSTICE SYSTEM (3)
PR: CCJ 3020 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

CCJ 4604 ABNORMAL BEHAVIOR AND CRIMINALITY (3)
PR: CCJ 3620, or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4700 RESEARCH METHODS IN CRIMINAL JUSTICE II (3)
PR: Junior standing or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122, GEB 3121, or STA 3023.

CCJ 4822 PRIVATE SECURITY SYSTEMS (3)
PR: Junior standing plus CCJ 4110 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.

*CCJ 4900 DIRECTED READINGS (1-3)
PR: CI. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program. No more than five hours of CCJ 4900 will be accepted toward the minimum number of hours required for the major.

*CCJ 4910 DIRECTED RESEARCH (1-3)
PR: CI. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice. No more than three hours of CCJ 4910 will be accepted toward the minimum number of hours of the major.

*NOTE: CCJ 4900 & CCJ 4910. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taken the course, (b) a minimum of four (4) CCJ courses must have been completed satisfactorily prior to enrollment, (c) first consideration will be given to Criminology majors, and (d) individual faculty members may add additional requirements at their discretion.

CCJ 4934 SEMINAR IN CRIMINAL JUSTICE (3)
PR: Senior standing and CI. This variable topic seminar will con-
sider the various changes occurring in the field of criminal justice
with added emphasis on career responsibilities in the field.

CCJ 4940 INTERNSHIP FOR CRIMINAL
JUSTICE MAJORS
PR: Seniors standing. The internship will consist of placement with
one or more of the agencies comprising the criminal justice system.
This course will enable the students to gain meaningful field ex-
perience related to their future careers. The three-hour block of credit
will require a minimum of ten hours of work per week within the
host agencies in addition to any written work or reading assignments.
See requirements for the B.A. degree in Criminology for the number of
hours required. (S/U only)

CJT 4100 CRIMINAL INVESTIGATION
(3)
Covers the major components of criminal investigation, with special
attention to the scientific aspects of criminal investigation and the
management of major cases.

GEOGRAPHY
Chairperson: TBA; Professor: D. M. Stowers; Professor Emeritus: R. H.
Fuson; Associate Professors: H. J. Schalemam, J. W. Stafford; Assistant Professors:
R. C. Holmes; Instructor: M. L. LeVasseur.

GEA 3000 WORLD REGIONAL GEOGRAPHY
(4) Comparative and analytical representation of representative regions of the
world with emphasis on cultural, political, economic, and physical
diversity.

GEA 3002 GENERAL GEOGRAPHY
(4) Selected topics in regional and topical geography offered as survey
courses. Open to all students.

GEA 3194 REGIONAL GEOGRAPHY
(4) Variable title course to systematically study and compare special
regions identified by the instructor.

GEA 3202 GEOGRAPHY OF ANGLO-AMERICA
(4) United States

GEA 3260 GEOGRAPHY OF THE SOUHEAST
(4) Gulf of Mexico

GEA 3400 GEOGRAPHY OF LATIN AMERICA
(4) South America

GEA 3410 GEOGRAPHY OF SOUTHEAST ASIA
(4) Southeast Asia

GEA 3500 GEOGRAPHY OF EUROPE
(4) Europe

GEA 3554 GEOGRAPHY OF THE USSR
(4) Former USSR

GEA 3600 GEOGRAPHY OF AFRICA
(4) Africa

GEA 3703 GEOGRAPHY OF ASIA
(4) Asia

GEA 1930 GEOGRAPHY OF CURRENT EVENTS
(4) Application of basic geographic principles of the analysis of con-
temporary events in various parts of the world.

GEA 3013 SYSTEMATIC GEOGRAPHY
(4) Principles and concepts of the discipline; maps, earth-sun relations,
weather, and climate.

GEA 3370 SYSTEMATIC GEOGRAPHY
(4) Continuation of GEO 3013; soil, water, rocks, minerals, and landforms.

GEA 3402 HUMAN GEOGRAPHY
(4) Systematic treatment of man's activities on earth; population, set-
tlement, agriculture, industry, trade, transportation, and political
aspects are among those considered.

GEA 3901 ELEMENTS OF GEOGRAPHY
(1) Independent study; various topics in physical and cultural geography.
(S/U only).

GEA 3931C WEATHER AND MAN
(4) The interrelationship between the atmospheric environment and
man.

GEA 4040C MAP INTERPRETATION
(4) Analysis and synthesis of various types of maps and map projections.

GEA 4100C CARTOGRAPHY
(4) Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND
METHODOLOGY
PR: GEO 3370. Selected topics in various geographic techniques
and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION
PR: GEO 3370. Detection, identification, and analysis of objects
on the earth's surface. Techniques other than photographic are also
considered.

GEO 4164C QUANTITATIVE METHODS
PR: GEO 3370. Statistical analysis in geographic research.

GEO 4200C PHYSICAL GEOGRAPHY
PR: GEO 3370 Intensive study of a topic selected from physical
geography.

GEO 4210 PHYSIOGRAPHY
PR: GEO 3370. Origin, evolution, and distribution of the landforms
of North America.

GEO 4280C HYDROLOGY
PR: GEO 3370. Hydrologic cycle; precipitation, evapotranspiration,
water budget, streamflow, and probability analysis.

GEO 4340 MAN AND NATURAL HAZARDS
The impact of hurricanes, tornadoes, earthquakes, sink holes, tidal
waves, fire, freezes, and droughts on people; attempts to overcome
or avoid these hazards.

GEO 4372 CONSERVATION
The distribution, exploitation, and conservation of physical and
human resources, ecology.

GEO 4390 WATER RESOURCES
A general overview of the hydrologic cycle and the impact of cultural
development of its various components. May also include a survey
of regional water problems.

GEO 4420 CULTURAL GEOGRAPHY
PR: GEO 3370. The interrelationships of culture and nature, from
prehistoric times to the present.

GEO 4440 POPULATION GEOGRAPHY
An analysis of contemporary patterns in world and regional distribu-
tions of people and geographical factors underlying these patterns
and their changes.

GEO 4460 HISTORICAL GEOGRAPHY
Survey of evolving landscapes through time; analysis is made by
means of systematic and regional methods in order to reconstruct
the changing culture-nature equation.

GEO 4470 POLITICAL GEOGRAPHY
PR: GEO 3370. The geographic factors underlying political deci-
sions and influencing their outcome; the geographic consequences
of these decisions; geopolitics.

GEO 4500 ECONOMIC GEOGRAPHY
PR: GEO 3370. The spatial organization of economic production,
consumption, and exchange systems.

GEO 4530 GEOGRAPHY OF ENERGY
The primary sources of energy; examined regionally and systemati-
cally; resource bases, production, and consumption. OPEC and en-
vironmental problems are considered.

GEO 4602 URBAN GEOGRAPHY
PR: GEO 3370. Spatial analysis of urban areas; growth, location,
spacings, and size. Development, site, situation, internal structure,
and hinterland are considered.

GEO 4700 TRANSPORTATION GEOGRAPHY
PR: GEO 3370. Interrelationships between freight and passenger
transportation and land use, in terms of site, traffic generation, and
 circulation.

GEO 4890 COASTAL ZONE MANAGEMENT
PR: GEO 3370. Physical, cultural, and environmental elements of
the coastal zone; impact of economic activities; recreation and
conservation.

GEO 4900 DIRECTED READING
PR: 20 hours in geography and CC prior to registration. May be
repeated.

GEO 4910 INDIVIDUAL RESEARCH
PR: 20 hours in geography and CC prior to registration. May be
repeated.
### GEO 5065 GEOGRAPHIC LITERATURE AND HISTORY (3)
**PR:** Senior or graduate standing in geography, or Cl. The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.

### MET 4002 CLIMATOLOGY (4)
**PR:** GEO 3013 or Cl. An introductory course which includes an examination of climatic classification systems, problem climates, and the application of climate to selected topics such as world vegetation patterns, agriculture, housing, and health.

### URP 4052 URBAN AND REGIONAL PLANNING (4)
The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

### GERONTOLOGY

**Chairperson:** T. A. Rich; **Professors:** J. I. Kosberg, T. J. Northcutt, Jr., T. A. Rich, S. V. Saxon, H. Sheppard; **Associate Professors:** J. L. Garcia, A. S. Gilmore, W. F. Mangum, L. C. Mullins; **Visiting Faculty:** Professor: V. Westay; **Other Faculty:** B. Burton, R. Cailr, M. J. Eten, J. A. Giordano, J. N. Henderson, D. R. Kerenson, L. Leavengood.

**GEY 3000 INTRODUCTION TO GERONTOLOGY (3)**

This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

**GEY 3601 BEHAVIOR CHANGES IN LATER LIFE (3)**
**PR:** GEY 3000, or Cl. A survey of physical and psychological aspects of aging from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.

**GEY 3625 SOCIOCULTURAL ASPECTS OF AGING (3)**
**PR:** GEY 3000 or Cl. Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community.

**GEY 4323 COMMUNITY RESOURCES FOR THE OLDER ADULT (3)**
**PR:** GEY 3000 or Cl. Deals with relationship between community resources, elderly and service providers. Discusses impact of myths and stereotypes, planning and development of programs and services, techniques of direct services, and need for and coordination of community resources.

**GEY 4327 LONG-TERM CARE ADMINISTRATION I (3)**
**PR:** GEY 3000, ACO 2011. A survey of Long Term Care (LTC) environments. Explored are such issues as definitions of LTC, physiological conditions of LTC uses, the institutional setting, the sociopsychological context, and methods of evaluation and intervention.

**GEY 4328 LONG-TERM CARE ADMINISTRATION II (3)**
**PR:** GEY 4327. Administration of long-term care institutions from a group of dynamics perspective. Emphasis on informed problem-solving and decision-making via analysis of the psychosocial and sociocultural environment extent in the nursing home community. Course objective is to create efficient and humane living and working conditions in nursing homes.

**GEY 4329 LONG-TERM CARE ADMINISTRATION III (3)**
**PR:** GEY 4328. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts.

**GEY 4360 GERONTOLOGICAL COUNSELING (3)**
**PR:** Cl. An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.

**GEY 4640 DEATH AND DYING (3)**
**PR:** GEY 3000 or Cl. A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered along with community resources.

**GEY 4920 DIRECTED READINGS (1-2)**
**PR:** Cl. A reading program with topics in gerontology conducted under the supervision of a faculty member.

**GEY 4930 SENIOR SEMINAR (2)**
**PR:** Cl. This course will provide upper level students with a seminar experience in discussing topics of interest and social relevance in the field of aging. Each student will be required to prepare a seminar paper and present it.

**GEY 4941 LONG TERM CARE PRACTICUM (3)**
**CR:** GEY 4329. A supervised placement in an appropriate agency or setting serving older people. The placement is part-time and for the purpose of introducing the student to a wide range of settings and services for the elderly.

**GEY 4945 FIELD PLACEMENT (6)**
**PR:** Cl. Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program and to a nursing home if in the BS program.

**GEY 5620 SOCIOLOGICAL ASPECTS OF AGING (3)**
**PR:** Cl. Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social systems and its major institutionalized subsystems.

**GEY 5630 ECONOMICS AND AGING (3)**
**PR:** Cl. Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security, and other support systems.

**GEY 5642 PERSPECTIVES ON DEATH AND DYING (3)**
**PR:** Cl. Study of the various psychological, medical, legal, and religious problems caused by dying and death, and of how individuals and groups have responded in the past and present.

**GEY 5645 MID-LIFE DEVELOPMENT (3)**
**PR:** Cl. The life space of middle age is explored through an examination of the physical, social, and psychological forces which influence this period of the human life span.

### HISTORY

**Chairperson:** James M. Swanson; **Graduate Research Professor:** L. A. Perez, Jr.; **Professors:** J. B. Belohlawek, C. B. Currey, S. F. Lawson, G. H. Mayer; **Professor Emeritus:** J. W. Silver; **Associate Professors:** R. O. Arsenaull, T. P. Dilkes, N. A. Hewitt, R. P. Ingalls, G. H. Kleine, G. R. Mormino, K. A. Parker, E. M. Silbert, J. M. Swanson; **Assistant Professors:** J. K. Brackett, D. R. Carr, W. M. Murray, G. K. Tipp, R. J. Van Nest; **Other Faculty:** C. W. Arnaude.

**AFH 3100 INTRODUCTION TO AFRICAN HISTORY (3)**
An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also offered under Afro-American Studies.)

**AFH 3200 AFRICAN HISTORY SINCE 1850 (3)**
Survey of the Colonial and post-colonial history of Africa. Emphasis
on the impact of European and other alien influences on the continental, emergence of independent African states, and post-independence problems of nation building and economic development. (Also offered under Afro-American Studies.)

AMH 2010, 2020 AMERICAN HISTORY I, II

A history of the United States with attention given to relevant developments in the Western Hemisphere. AMH 2010: European origins to 1877; AMH 2020: 1877 to present.

AMH 3110 AMERICAN COLONIAL HISTORY TO 1750

A study of the evolution of American society from the Age of Reconciliation to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.

AMH 3130 THE AMERICAN REVOLUTIONARY ERA

Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyaltyism, violence, and slavery in American society from 1750-1789.

AMH 3140 THE AGE OF JEFFERSON

A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethnocultural conflicts.

AMH 3160 THE AGE OF JACKSON

The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

AMH 3170 THE CIVIL WAR AND RECONSTRUCTION

An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).

AMH 3201 UNITED STATES, 1877-1929

A study of America from the end of Reconstruction to the stock market crash. Ranging over political, social, and diplomatic developments, the course covers industrialization, reform, imperialism, feminism, race relations and World War I.

AMH 3252 THE UNITED STATES SINCE 1929

The United States from the Great Depression to the present. Covering political, social, and diplomatic developments, examines the New Deal, World War II, the Cold War, Viet Nam, civil rights, feminism and Watergate.

AMH 3402 THE OLD SOUTH

A study of the American South from its colonial origins to the fall of the Confederacy in 1865. Emphasis on slavery and race, the Southern frontier, the development of sectional consciousness, and the coming of the Civil War.

AMH 3403 THE SOUTH SINCE 1865

Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demography and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3421 EARLY FLORIDA

A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

AMH 3423 MODERN FLORIDA

An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

AMH 3428 TAMPA HISTORY

Emphasizes the post-Civil War period, examines the origins of Tampa and the factors which made Tampa the center of a growing metropolitan area. The Tampa past will be studied against the state, national, and international developments.

AMH 3460 AMERICAN URBAN HISTORY

A study of American cities from the colonial period to the present. Through an examination of economic, political, social and physical developments, the course traces both the opportunities and problems presented by urban life.

AMH 3500 AMERICAN LABOR HISTORY

A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects of workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

AMH 3510 U.S. DIPLOMATIC HISTORY

TO 1898 -6A

The development of American Foreign Relations in the Agricultural era.

AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY -6A

A history of American Foreign Relations in the Industrial era.

AMH 3530 IMMIGRATION HISTORY

A study of the composition and character of the "American" people with emphasis on the period from 1840s to the 1920s. Examines oldworld backgrounds of immigrants and their responses to the new world's social, economic and political conditions.

AMH 3540 UNITED STATES MILITARY HISTORY

A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

AMH 3545 WAR AND AMERICAN EMPIRE

The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.

AMH 3561 AMERICAN WOMEN I

A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined. (May also be taken for credit in Women's Studies.)

AMH 3562 AMERICAN WOMEN II

A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined. (May also be taken for credit in Women's Studies.)

AMH 3800 HISTORY OF CANADA

A study of Canadian experience from its French origins through the British conquest to its present multi-racial character. Attention will also be given to the forces of nationalism, separatism, and regionalism.

ASH 3403 ANCIENT AND IMPERIAL CHINA

An historical survey of the foundation and flowering of Chinese civilization with primary emphasis on cultural, intellectual, and institutional elements, from the paleolithic period to the early Manchu Dynasty (17th century).

ASH 3404 MODERN CHINA

Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.

ASH 3501 HISTORY OF INDIA

A study of the major themes of Indian history from the Indus culture to the present. Emphasis will be given to the Classical, Mogul and British periods as well as the modern independent sub-continent.

EUIH 2011, 2012 (formerly 2101, 2102) ANCIENT HISTORY I, II

An introductory survey of ancient history. EUIH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome. EUIH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 395.

EUIH 2021, 2022 (formerly 2121, 2122) MEDIEVAL HISTORY I, II

A thematic survey of the Middle Ages. EUIH 2021 deals with the nascent, Christian civilization of Europe, circa 300-1050 A.D.; EUIH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.
EUH 2030, 2031 (formerly 2200, 2201) MODERN EUROPEAN HISTORY I, II (3,3)
A thematic survey of Europe in the modern age. EUH 2030 treats
the period from the Renaissance to the French Revolution; EUH
2031, from the French Revolution to the present.

EUH 3142 RENAISSANCE AND REFORMATION (4)
A history of Europe from the Renaissance to the Thirty Years' War
(1400-1618). The cultural, social, and economic characteristics will
provide the framework for artistic, philosophical, religious, and
political developments.

EUH 3181 MEDIEVAL CULTURE (4)
A survey of thought, culture, and art in the Middle Ages. Medieval
attitudes as manifested in literature, art, philosophy, education, and
religion; with emphasis upon Medieval man's changing perception
of himself and his world.

EUH 3185 VIKING HISTORY (4)
The role of the Vikings in the shaping of Western history. A compre­
hensive survey of their institutions, outlook and daily life. Viking
expansion into Europe and North America.

EUH 3188 MEDIEVAL SOCIETY (4)
A study of the daily life and attitudes of the medieval nobleman,
peasant, townsman, and the agrarian-urban economy and society
which affected their lives.

EUH 3189 MEDIEVAL POLITICS (4)
An inquiry into the nature, distribution, and use of political power
during the Middle Ages, in such institutions as feudalism, monar­
chy, cities, and the church.

EUH 3202 ABSOLUTISM AND ENLIGHTENMENT (4)
A history of Europe from the beginning of the Thirty Years' War
to the outbreak of the French Revolution. Political and intellectual
developments will be assessed in the light of society and the economy.

EUH 3205 HISTORY OF NINETEENTH CENTURY EUROPE (4)
A comparative study of economic, political, social, and intellectual
developments in nineteenth century Europe.

EUH 3206 HISTORY OF TWENTIETH CENTURY EUROPE (4)
A comparative study of economic, political, social, and intellectual
developments in twentieth century Europe.

EUH 3300 BYZANTINE HISTORY (4)
A survey of the Byzantine (Eastern Roman) Empire from its founda­
tion in A.D. 330 to its collapse in 1453. Emphasis on the rela­
tionship between the Byzantine Empire and the course of European
history and on the cultural heritage of this Empire.

EUH 3401 CLASSICAL GREECE (4)
A study of ancient Greece focusing on the brilliant period follow­
ing the Persian Wars, but embracing as well the formative Bronze,
Middle and Archaic ages, and the decline culminating in the con­
quest of Greece by Philip II of Macedon in 338 B.C.

EUH 3402 AGE OF ALEXANDER (4)
A study focusing on the career of Alexander the Great and on the
Greek and Macedonian conquest of Imperial Persia. Also treated
are the great hellenistic kingdoms prior to Rome's conquest of the
eastern Mediterranean.

EUH 3412 ROMAN REPUBLIC (4)
A study of the Roman Republic from 509 B.C. to the assassination
of Julius Caesar in 44 B.C., with a prelude treating Rome's early
development under royal rule. Political growth and change provide
the framework for the treatment.

EUH 3413 ROMAN EMPIRE (4)
A study of Imperial Rome from the assassination of Julius Caesar
in 44 B.C. to the death of the emperor Constantine in A.D. 337.
Emphasized is Rome's government of a vast Mediterranean empire
including much of the near East and Europe.

EUH 3461 GERMAN HISTORY TO 1870 (4)
A political, social, and cultural approach to the history of the Ger­
mans from 1500 through 1870, with emphasis on the Protestant
Reformation, the rise of Brandenburg-Prussian, and the unification
under Bismarck.

EUH 3462 GERMAN HISTORY 1870 TO PRESENT (4)
A political, social, and cultural approach to the history of the Ger­
mans from 1870 through the 1970's. The nation's two at­
ttempts to try for world power status are highlighted, as well as the
Weimar Republic, prototype of the embattled democracy.

EUH 3501 BRITISH HISTORY TO 1668 (4)
A study of major developments in British history from the 15th
century to 1668.

EUH 3502 BRITISH HISTORY 1668 TO PRESENT (4)
A study of the major themes of British history since the Glorious
Revolution, including social, political, and economic developments
leading to the creation of the modern demographic welfare state.

EUH 3530 BRITISH EMPIRE AND COMMONWEALTH (4)
A study of the development of the British Empire from the age of
initial expansion overseas to the creation of the multinational com­
monwealth. Included are examinations of theory and myth of col­
onialism as well as the literature of imperialism.

EUH 3571 RUSSIAN HISTORY TO 1865 (4)
A survey of the social, political, economic, and cultural develop­
ment of Russia from the year 800 to 1865. Topics include the per­
sonality of Russian rulers, the origins of Russian Socialism, and
Russia's relationship to the West.

EUH 3572 RUSSIAN HISTORY 1865 TO PRESENT (4)
An analysis of the tradition from late imperial society to the con­
temporary Soviet system. Emphasis will be placed on continuity and
change in the economic, political, and cultural aspects of Russia
from 1865 to present.

HIS 3474 SCIENCE AND CIVILIZATION -6A (4)
A thematic study of the interrelationship of science and society in
modern history emphasizing the institutional forms, value struc­
tures, and social relations in science as they have developed from
the scientific revolution to the present.

HIS 3930 SPECIAL TOPICS (3-4)
This course is designed to emphasize a selected historical problem
or issue that is meaningful and challenging to the student. A varie­
ty of instructional approaches will be taken to the material. Topics
will be changed each semester.

HIS 4104 (formerly 4152) THEORY OF HISTORY (4)
Recommended to be taken during the senior year. Required of all
history majors. An analysis of the foundations of historical
knowledge and historical methodology. Includes a survey of historical
thinking and writing from ancient times to the present.

HIS 4153 ORAL HISTORY (3)
A study of the craft and technique of oral history. The course focuses
on a number of historical studies which have utilized interviews
as an instrument of historical research. Students will be expected
to complete original field research.

HIS 4900 DIRECTED READING (1-4)
PR: CI. Arrangement with instructor prior to registration. Readings
in special topics.

HIS 4920 COLLOQUIUM IN HISTORY (2-4)
Reading and discussion of selected topics in the various fields of
history. The subject and scope of inquiry will be determined by the
instructor for each section. May be repeated for credit.

HIS 4936 PRO-SEMINAR IN HISTORY (4)
PR: CI. Advanced topics in the various fields of history. Emphasis
on discussion of assigned readings and on research and writing of
a major paper. Required of all history majors. May be repeated up
to 12 credit hours.

HIS 5215 HISTORY OF WRITING (2)
A course for graduate and advanced undergraduates to combine
library, archival and research skills with an examination of various
writing styles. Analytic and synthetic skills are stressed in writing
articles, reviews and essays.

LAH 3130 (formerly 3021) SPAIN, PORTUGAL,
AND IBERIAN EMPIRES (4)
A study of peoples of the Iberian peninsula from the late medieval
period to 1896. Emphasis falls on emergence of the Iberian states
and the rise of the Spanish-Portuguese empires in the Western Hemisphere from 1492 to 1898.

LAH 3200 (formerly 3022) MODERN LATIN AMERICA
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 HISTORY OF MEXICO
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 HISTORY OF THE CARIBBEAN
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

LAH 3480 HISTORY OF CUBA
Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggle for independence, the political economy of the Republic, and the 20th century revolutionary process.

LAH 3600 HISTORY OF BRAZIL
Brazil from the 16th century to the present. Emphasis on the Portuguese conquest and settlement, emergence of the Empire and republic, the 20th century quest for modernity and leadership in Latin America.

WOH 3270 REVOLUTIONS IN THE MODERN WORLD -6A
A comparative study of the major revolutions in world history. Emphasis is placed on the testing of various theories and models of the revolutionary process in the context of concrete historical examples.

WST 3210 WOMEN IN WESTERN CIVILIZATION I
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in Women's Studies.)

WST 3220 WOMEN IN WESTERN CIVILIZATION II
Survey of European women from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in Women's Studies.)

WST 3275 WOMEN IN THE DEVELOPING WORLD
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in International Studies.)

WST 3360 MEN AND SEXISM
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning, and alternatives to masculine sex role models.

WST 4309 THE FEMALE EXPERIENCE IN AMERICA
PR: WST 3010, or WST 3111, or Cl. The female experience in America, in historical context, viewed through the writings of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in Women's Studies.)

WST 4310 FEMINISM IN AMERICA
PR: WST 3010, or WST 3111, or Cl. Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in Women's Studies.)

HUMAN SERVICES
Coordinator: T.A. Rich; Faculty: J.L. Garcia, A.S. Gilmore, D.R. Kerer-

HUS 3001 INTRODUCTION TO HUMAN SERVICES
An introduction to the field of human services. Study of the professions and agencies involved in providing human services. Analysis of the values and ethics of various professional associations.

HUS 3502 (formerly HUS 3300) SOCIAL POLICY IN THE UNITED STATES
PR: HUS 3001 or Cl. Historical development of social policy in the United States. The impact of industrialization and urbanization on the individual and family. The changing roles of family, community, state, nation and current issues.

HUS 4020 THE LIFE CYCLE
An examination of individuals and the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age and old age.

HUS 4100 (formerly MHT 4302) INTERVIEWING
PR: HUS 3001 or Cl. The principles and techniques of interviewing. Use of interviewing in information gathering, research and helping relationships and developing skills in communication across cultural, social and age barriers.

HUS 4700 PLANNING AND EVALUATION OF HUMAN SERVICES PROGRAMS
PR: HUS 3001 or Cl. Review of approaches to planning, coordination, and evaluation of human services programs in health, rehabilitation, welfare and community action programs. Applications of planning and evaluation techniques.

HUS 5325 INTERVENTION TECHNIQUES (formerly HUS 5224)
PR: HUS 3001 or Cl. Attention will be given to techniques of intervention at individual, small group, and community levels. The need for crisis intervention programs in modern society.

HUS 5505 MINORITY AGING
This course treats the general issues, concerns and problems relevant to researchers and practitioners in the field of minority aging. Available to both majors and non-majors.

SOW 4332 COMMUNITY ORGANIZATION AND DEVELOPMENT
PR: HUS 3001 or Cl. An interdisciplinary approach to community organization and development. A synthesis of social, cultural, psychological, economic, and political information concerning community structure and change.

INTERNATIONAL STUDIES

AREA STUDIES
These multidisciplinary area study courses (AFS 3930, ASN 3000, ASN 3030, EUS 3000 and LAS 3001) deal with one or more countries of a region and will selectively emphasize their anthropological, economic, geographic, historical, religious, political and sociological aspects, and current problems. Each course may be repeated when countries of concentration vary.

ASN 3030 THE MIDDLE EAST
EUS 3000 EUROPE
LAS 3001 LATIN AMERICA
AFA 4150 AFRICA AND THE UNITED STATES
An examination of the historical and current political, economic, and cultural relations between the United States and Africa. (Also offered under African and Afro-American Studies.)
ASN 3012 JAPAN TODAY (3)
An introduction to modern Japan and its world role, drawing upon insights provided by the social and behavioral sciences. Emphasis is placed upon Japan’s foreign relations.

ASN 3014 CHINA TODAY (3)
A multidisciplinary study of contemporary (1949-present) China’s political and economic development, foreign affairs, social system and culture.

EUS 3022 SOVIET UNION TODAY (3)
A multidisciplinary study of Soviet life and Soviet citizen today and their impact on the role of the Soviet Union in the world.

INR 2085 WORLD TENSIONS (2)
A study of the major causes and consequences of critical tensions which lead to serious social disturbances among and within the independent states of the world.

INR 3038 INTERNATIONAL WEALTH AND POWER (3)
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

INR 3141 INTERNATIONAL NUCLEAR POLICY (3)
A study of nuclear issues (such as system development, proliferation, control, strategic policy and war) as they relate to contemporary international politics.

INR 3336 INTELLIGENCE AND U.S. FOREIGN POLICY (3)
An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

INR 3505 THE UNITED NATIONS AND PEACE (3)
Study and analysis of the continuing development of the United Nations, using current major issues to understand its role as a harmonizing forum for conflicting political systems and ideologies.

SSI 1211 WORLD PERSPECTIVE (3)
An interdisciplinary study of the international system, major world regions and problems.

SSI 2221 AMERICA’S ROLE IN THE WORLD (3)
A multidisciplinary study of America’s role in world affairs, emphasizing current problems and issues in the formulation and implementation of foreign policy.

SSI 2261 WORLD IDEOLOGIES (3)
A course which details and examines the ideologies of today’s independent countries; analyzing them in their political, social, cultural, and historical context.

SSI 3242 INTERNATIONAL TERRORISM (3)
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

SSI 3260 COMMUNISM IN THE MODERN WORLD (3)
An interdisciplinary study of the theory and practice of Communism in the world today.

SSI 3770 COMPARATIVE MILITARY SYSTEMS (3)
A comparative study of ways in which the military institutions of various nations are organized and interact with politics, societies, and economies.

SSI 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES (1-4)
Interdisciplinary studies with course content dependent on student demand and instructor’s interest. May be repeated as topics vary.

SSI 4500 OVERSEAS STUDY (1-6)
A program of individual or group research in a foreign country.

SSI 4250 THE EMERGING NATIONS (3)
A multidisciplinary study of the efforts of third world nations to improve their status through economic development.

SSI 4900 DIRECTED READINGS (1-3)
PR: CL. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

SSI 4910 DIRECTED RESEARCH (1-3)
PR: CL. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

POLITICAL SCIENCE 217

SSI 4931 SELECTED TOPICS (1-4)
Interdisciplinary studies with course content dependent on student demand and instructor’s interest. May be repeated as topics vary.

SSI 4936 SENIOR SEMINAR (3)
PR: Senior standing and CL. To provide an integrating seminar experience for majors in International Studies.

WST 3275 WOMEN IN THE DEVELOPING WORLD (3)
A comparative study of women’s status in various developing nations with that in various industrialized states. (Also offered under Women’s Studies Program.)

OFF-CAMPUS TERM

Director: D. K. Lupper

IDS 4900 DIRECTED READINGS (1-4)
PR: OCT Program approval. Open to all students approved for OCT Program. Provides students with community related readings. May be repeated up to 8 credit hours.

IDS 4910 DIRECTED RESEARCH (1-4)
PR: OCT Program approval. To provide students with community related research experience in areas of specific interest. May be repeated up to 8 credit hours.

IDS 4942 OFF-CAMPUS TERM SOCIAL ACTION PROJECT (1-4)
PR: OCT Program approval. May be repeated up to 4 credit hours. (S/U only.)

IDS 4943 OFF-CAMPUS TERM SPECIAL PROJECT (1-2)
PR: OCT Program approval. (S/U only.)

IDS 4955 OFF-CAMPUS TERM INTERNATIONAL PROGRAM (1-2)
PR: OCT Program approval. (S/U only.)

POLITICAL SCIENCE


CPO 3002 INTRODUCTION TO COMPARATIVE POLITICS (3)
Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS (3)
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

CPO 4930 COMPARATIVE GOVERNMENT AND POLITICS OF SELECTED COUNTRIES OR AREAS (3)
Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 12 credit hours as topics vary.

CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS (3)
Studies specific substantive areas in comparative politics such as political economy or the politics of specific countries or regions. May be repeated for credit as topics vary.

INR 3032 INTRODUCTION TO INTERNATIONAL RELATIONS (3)
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

INR 3102 AMERICAN FOREIGN POLICY (3)
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.
INR 4035 INTERNATIONAL POLITICAL ECONOMY (3)
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4334 DEFENSE POLICY (3)
Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW (3)
Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.

INR 4502 INTERNATIONAL ORGANIZATIONS (3)
Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.

INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3)
Explore specific topics and provides the student with an opportunity for indepth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.

POS 2041 AMERICAN NATIONAL GOVERNMENT (3)
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

POS 2112 STATE AND LOCAL GOVERNMENT AND POLITICS (3)
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (3)
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3145 GOVERNING METROPOLITAN AREAS (3)
Examines governmental units and interactions in metropolitan areas, proposals for changes in governance, and policy areas of area-wide concern, such as human services.

POS 3173 SOUTHERN POLICIES (3)
Examines changes in electoral policies in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 FLORIDA POLITICS AND GOVERNMENT (3)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns. Open to majors and nonmajors.

POS 3273 PRACTICAL POLITICS (3)
PR: POS 2041 or POS 3453 or CI. Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.

POS 3283 JUDICIAL PROCESS AND POLITICS (3)
The organization, development, and mechanical functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 POLITICAL PARTIES AND INTEREST GROUPS (3)
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 INTRODUCTION TO LAW AND POLITICS (3)
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

POS 3713 EMPIRICAL POLITICAL ANALYSIS (4)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

POS 3930 SELECTED TOPICS (3)
Selected topics in political science with course content upon student demand and instructor's interest. May be repeated for up to 8 credits as topics vary.

POS 4165 COMMUNITY LEADERS AND POLITICS (3)
Analysis of the roles and powers of mayors, city managers, council members, and interest and ethnic groups; distribution of community power.

POS 4204 POLITICAL BEHAVIOR, PUBLIC OPINION, AND ELECTIONS (3)
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

POS 4413 THE AMERICAN PRESIDENCY (3)
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decisionmaking; White House staffing; limits on power.

POS 4424 THE AMERICAN CONGRESS (3)
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

POS 4614 CONSTITUTIONAL LAW I (3)
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

POS 4624 CONSTITUTIONAL LAW II (3)
PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

POS 4693 WOMEN AND THE LAW (3)
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and nonmajors. (Also offered under Women's Studies.)

POS 4905 INDEPENDENT STUDY (1-3)
PR: 3.0 average in Political Science and CI. Specialized study determined by the student's needs and interests. (S/U only.)

POS 4910 INDIVIDUAL RESEARCH (1-3)
PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an original research paper.

POS 4936 SENIOR SEMINAR (3)
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

POS 4941 FIELD WORK (3)
PR: 3.0 average in Political Science and CI. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

POS 4970 HONOR THESIS (3)
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

POS 5084 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (3)
Selected topics of study in American government. May be repeated for credit as topics vary.

POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (3)
Selected issues and topics in Urban Government and Politics. May be repeated for credit as topics vary.

POS 5734 POLITICAL RESEARCH METHODS (3)
A survey of methods, problems, and issues in political research and analysis for the advanced student.

POT 3003 INTRODUCTION TO POLITICAL THEORY (3)
Examines various kinds of theory used in political science; and political life: normative theory, empirical theory, historiocriticism, analytical theory, and critical theory.

POT 3013 CLASSICAL POLITICAL THEORISTS (3)
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.
POT 4054 MODERN POLITICAL THEORY (3)
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4064 CONTEMPORARY POLITICAL THOUGHT (3)
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

POT 4204 AMERICAN POLITICAL THOUGHT (3)
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding, and culminating in recent contributions and understanding contemporary political problems and solutions.

POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (3)
PR: Graduate or senior standing and Cl. Selected topics in political philosophy and law. May be repeated as topics vary.

PUP 4534 HOUSING AND GOVERNMENT (3)
Analyses of political and administrative aspects of housing policy formation and delivery system; and the role of government in housing policy.

PUP 5607 PUBLIC POLICY AND HEALTH CARE (3)
The study of health care policy as it relates to the policy process in the American setting.

URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT (3)
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

URP 5131 IMPLEMENTATION MEASURES IN URBAN/REGIONAL PLANNING I (3)
PR: URP 4050 or 6056. Basic legal concepts of land-use planning and implementation with the use of legal reference materials and academic works; zoning, subdivision regulation, public uses, and environmental issues. (Also offered under Public Administration.)

PSYCHOLOGY

CBH 4004 COMPARATIVE PSYCHOLOGY (3)
PR: PSY 3213 or CI. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

CLP 3003 PSYCHOLOGY OF ADJUSTMENT (3)
Genetic, organic, and learned factors involved in the processes of personal adjustment: applications of mental health principles to everyday living. Not for major credit.

CLP 4143 ABNORMAL PSYCHOLOGY (3)
PR: PSY 3213 or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

CLP 4414 BEHAVIOR MODIFICATION (3)
PR: PSY 3213 and CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)
PR: PSY 3213. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433, and EDF 3430.

DEP 3103 CHILD PSYCHOLOGY (3)
Developmental and psychosocial aspects of childhood, including hereditary, maturation, psychological, and social determinants of child behavior. Not for major credit.

DEP 4005 DEVELOPMENTAL PSYCHOLOGY (3)
PR: PSY 3213 or Cl. Survey of methods, empirical findings, and theoretical interpretations in the study of human and animal development.

DEP 4135 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)
PR: PSY 3213 or Cl. Available both to majors and non-majors. Surveys the course of and processes underlying normal language development. Presents data and theory on phonologica,l semantic, syntactic, and pragmatic development.

EXP 4104 SENSORY PROCESSES (3)
PR: PSY 3213 or Cl. Available to both majors and non-majors. Psychophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.

EXP 4204C PERCEPTION (3)
PR: PSY 3213 or Cl. How man perceives his environment. Topics include sensory basis of perception, physical correlates of perceptual phenomena, and the effects of individual and social factors on perception.

EXP 4304 MOTIVATION (3)
PR: PSY 3213 or Cl. An examination of human and animal motivations from both physiological and psychological viewpoints.

EXP 4404 PSYCHOLOGY OF LEARNING (3)
PR: PSY 3213 or Cl. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

EXP 4523 HUMAN MEMORY (3)
PR: PSY 3213 or Cl. Survey of methods, empirical finding, and theoretical interpretations of human learning, information processing, and verbal learning.

INP 3101 APPLIED PSYCHOLOGY (3)
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.

INP 4004 INDUSTRIAL PSYCHOLOGY (3)
PR: PSY 3213 or Cl. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.
PSY 3213 RESEARCH METHODS IN PSYCHOLOGY
PR: PSY 3013 or Cl. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab.

PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS
PR: PSY 3213. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 SYSTEMATIC PSYCHOLOGY
PR: PSY 3213 or Cl. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PST 4913 DIRECTED STUDY
PR: Upper level standing and Cl. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. May be repeated with a maximum of 3 semester hours.

PST 4931 SELECTED TOPICS: SEMINAR
PR: Upper level standing and Cl. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology. May be repeated with a maximum of six hours credit.

PST 4932 HONORS SEMINAR
PR: Admission to honors program in psychology and Cl. Graduate-type seminar designed to provide the honors student with an opportunity to present, discuss, and defend his own research and to explore in-depth topics in several areas of psychology. May be repeated with a maximum of nine hours credit.

PST 4970 HONORS THESIS
PR: Admission to honors program in psychology and Cl. The student under supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in psychology.

SOP 3742 PSYCHOLOGY OF WOMEN
PR: PSY 3213 or Cl. An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle. (Also offered under Women's Studies.)

SOP 4004 SOCIAL PSYCHOLOGY
PR: PSY 3213 or Cl. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

SOP 4714 ENVIRONMENTAL PSYCHOLOGY
PR: PSY 3213 or Cl. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

SOP 4714C ENVIRONMENTAL PSYCHOLOGY
PR: PSY 3213 or Cl. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

PUBLIC ADMINISTRATION
Chairperson: D.C. Menzel; Professor: J.E. Jessee; D.C. Menzel; Associate Professors: J.C. Renick, F.W. Swierczek; Assistant Professors: P.T. Paluch, J.L. Daly; Visiting Assistant Professor: C.J. Spindler.

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION
PR: Cl. An examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4202 PUBLIC FINANCIAL ADMINISTRATION
PR: Cl. Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY
PR: Cl. Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

REHABILITATION COUNSELING
Chairperson: C.M. Pinkard; Professor: W.G. Emener; Associate Professors: J.F. Dickman, F. Gross, M.J. Landsman, C.M. Pinkard, J.D. Rasch, T.J. Wright.

EGC 5065 REHABILITATION: CONCEPTS AND THEORETICAL ISSUES
PR: Cl. Counseling and case management procedures appropriate to meeting the needs of handicapped individuals in the rehabilitation process. Must be taken concurrently with EGC 5850. (S/U only.)

EGC 5496 THEORETICAL ISSUES IN APPLIED ALCOHOL ABUSE

EGC 5725 INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING I
PR: Cl. Focuses on the utilization of one's self in the counseling relationship. Emphasis is on the experiential exploration and development of interpersonal skills.

EGC 5850 PRACTICUM I
PR: Cl. Supervised experience and participation in counseling in a variety of rehabilitation settings. Must be taken concurrently with EGC 5850. (S/U only.)

EGC 5905 DIRECTED STUDIES
PR: Cl. Supervised rehabilitation studies relevant to student's professional development. May be repeated for a maximum of 8 hours credit.
SOCIAL SCIENCES
(INTERDISCIPLINARY)


SSI 3010 INTRODUCTION TO THE SOCIAL SCIENCES
An introduction to the fields within the social sciences. Emphasis is placed on the concepts, theories and methodologies used in the social sciences. Course may be taken by non-majors.

SSI 4162 THE CITY AND URBANIZATION
An interdisciplinary perspective will be used to analyze dimensions of the city and the urban revolution. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problems.

SSI 3164 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH
This course is designed to examine current social issues from an interdisciplinary perspective. Topic selection will be within the broad framework of technological changes, economic conditions, political ideologies, and their impact on changing social patterns.

SSI 4935 SEMINAR IN THE SOCIAL SCIENCES
PR: Senior standing and SSI 3010. A capstone course designed to provide an in-depth study of topical areas related to the social sciences. Course may be taken by non-majors.

SSI 5934 SELECTED TOPICS
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

STA 3122 SOCIAL SCIENCE STATISTICS
A study of statistical terms and methods to provide students with comprehension thereof, enabling them to use statistics in research, and understand their use in professional social science journals.

SOCIAL WORK

Chairperson: P. L. Smith; Professor: G. M. St. L. O'Brien; Associate Professors: J. A. Giordano, T. U. Harche, W. S. Hutchison, Jr., F. C. Johnson, R. R. Martin, P. L. Smith, R. J. Willk, B. L. Yegid; Assistant Professors: E. B. Breed, R. L. White; Visiting Faculty: W. Van; Courtesy Faculty: Professor: J. L. Kosberg; Associate Professors: B. Boone, A. J. Floyd; Assistant Professors: M. L. Coulter, P. A. d'Orentino, A. E. Thomas; Instructor: L. Middleton.

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I
PR: All pre-core courses. Restricted to Social Work majors, others by Department permission. An integrating human behavior-sociocultural environment course emphasizing dynamics of behavior and environment factors as they relate to social work practice with individuals, families and groups.

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II
PR: SOW 3101. Restricted to Social Work majors; others by Department permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with organizations and communities.

SOW 3302 INTRODUCTION TO SOCIAL WORK
An introductory course tracing the development of the social work profession.

SOW 3203 INTRODUCTION TO SOCIAL WELFARE AND SOCIAL WORK
An introductory course tracing the development of the American social welfare system.

SOW 3403 RESEARCH AND STATISTICS FOR SOCIAL WORK
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. The purpose of this course is to provide students with research skills that will enable them to safely conduct research and evaluate research studies critically.

SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4242 CHILD WELFARE: PROGRAMS AND ISSUES
Restricted to Social Work majors; others by Departmental permission. Presents organization, program, and current policy issues related to public child welfare services.

SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION
PR: SOW 3101; SOW 3403. Restricted to Social Work majors; others by Department permission. Practice course emphasizing development of skills from practical knowledge. Interventive methods with individuals, families and small groups. Course includes didactic and experiential learning component.

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION
PR: All pre-core courses, SOW 4341, SOW 4233, and SOW 3102 may be taken as PR or CR. Restricted to Social Work majors, others by Department permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes a didactic and experiential learning component.

SOW 4355 INTERVENTIVE METHODS FOR CHILD WELFARE
Restricted to Social Work majors, others by Departmental permission. This course provides knowledge for assessing and skill development for intervening in child welfare situations.

SOW 4361 SENIOR SEMINAR
PR: All pre-core courses; all core Social Work courses, except that SOW 4510 may be taken as CR. This course is the final course taken in the BSW curriculum. It is restricted to Social Work majors in their final stages of the senior year. The course serves as a means for assisting the student in synthesizing and integrating his/her learning experiences in the BSW program.

SOW 4510 FIELD PLACEMENT
PR: Completion of all social work core courses except SOW 4361. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field and 3 hours per week in an integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4900 DIRECTED READINGS
PR: Completion of four social work courses including SOW 3403, upper level standing, and Department permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed and approved by Program Chairperson. May be repeated up to 6 credit hours.

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK
Restricted to Social Work majors; others by Department permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SOW 5930 SELECTED TOPICS IN SOCIAL WORK
Restricted to Social Work majors, both graduate and undergraduate; others by Department permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.
SOCIOLGY


SYA 3010 FOUNDATIONS OF THEORY
PR: SYG 2000 or CL. Consideration of selected theories in sociology and procedures of systematic theory construction.

SYA 3300 SOCIAL INVESTIGATION

SYA 3503 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES
PR: Major in the College of Social and Behavioral Sciences and CR in an upper level course. For students majoring in some other college, approval by major professor and instructor of course are both required, but concurrent registration in one of the social and behavioral science courses is maintained. The consideration of the theoretical and technical requirements for expressing social science concepts and propositions on film. Film planning, camera techniques, editing silent film, and the utilization of the independent sound track in the commentary film. Ethics of film making.

SYA 3504 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES
PR: SYA 3503, CR in a course in the social and behavioral sciences with instructor's approval to enable student to make a film in lieu of some other course requirement. A continuation of lab and field work in the making of commentary films. Camera, editorial and problems of independent sound solved in the context of making a film in one of the social sciences. Does not count for sociology major credit. May be repeated for credit. See class schedule for content.

SYA 4430 COMPUTERS IN SOCIOLOGICAL RESEARCH
PR: COC 3300, STA 3122 or equivalent. Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis.

SYA 4910 INDIVIDUAL RESEARCH
PR: Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or CI. Content dependent upon interest and competence of student. A contract specifying the work to be done must be completed and signed by both the student and the chairperson of the department before registration for this course will be permitted. May be repeated for credit. Up to 3 credits may be counted towards major electives requirement.

SYA 4930 TOPICS IN SOCIOLOGY
PR: 12 semester hours of Sociology and prior CI. May be repeated for credit. See class schedule for content.

SYA 4935 SENIOR SEMINAR
For seniors majoring in sociology or other social sciences. Major issues in sociology, stressing theory and research.

SYA 5949 SOCIOLOGICAL INTERNSHIP
PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting. May be repeated up to 6 credit hours. (S/U only).

SYD 3700 RACIAL AND ETHNIC RELATIONS
PR: SYG 2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

SYD 4020 POPULATION
PR: SYG 2000 or CI; upper level standing. Sociological determinants of fertility, mortality and migration; theories of population change.

SYD 4410 URBAN SOCIOLOGY
PR: SYG 2000 or CI; upper level standing. The social structure of the community in modern industrial societies. Analysis of community change.

SYD 4441 COMPARATIVE RURAL SOCIOLOGY
PR: SYG 2000 or CI. The study of rural life in the United States; compares the situation in the United States with that of other societies as well as other times in history; some aspects of rural peasant societies and experiments in rural community formation.

SYD 4800 SOCIOLOGY OF SEX ROLES
PR: SYG 2000; WST 2010 or 2111; or CI. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (Also offered under Women's Studies.)

SYG 1010 CONTEMPORARY SOCIAL PROBLEMS
Application of sociological concepts and principles to the description and analysis of major social problems of modern societies. Does not count for sociology major credit.

SYG 2000 INTRODUCTION TO SOCIOLOGY
PR: One course in Sociology. An examination of sociology as a career base and basis for general education. Employment opportunities, occupational skills taught in the several courses, and other useful aspects of sociology will be discussed. Descriptions of the several subfields of specialization and a brief introduction to the courses taught in the department will lead to the student's making a tentative program schedule for his major. The value of sociology to the individual as a self actualizing person of unique worth will be stressed. (S/U only.)

SYG 2412 MARRIAGE
Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

SYO 3120 THE FAMILY
PR: SYG 2000 or CI. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

SYO 3200 SOCIOLOGY OF RELIGION
PR: SYG 2000 or CI. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SYO 3500 SOCIAL ORGANIZATION
PR: SYG 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SYO 3530 SOCIAL STRATIFICATION
PR: SYG 2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.

SYO 4300 POLITICAL SOCIOLOGY
PR: SYG 2000 or CI. An examination of the social factors that affect government, politics, and political behavior.

SYO 4370 OCCUPATIONS AND PROFESSIONS
PR: Upper level standing or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on process professionalizing service occupations like police work, business management, pubic administration and social work.

SYO 4400 SOCIOLOGY OF MEDICINE
PR: SYG 2000 or CI. An examination of the major theoretical and methodological tools used by sociologists in studying medical care. A representative sampling of medical sociological studies will be reviewed and discussed.

SYO 5365 INDUSTRIAL SOCIOLOGY
PR: SYG 2000 or CI; upper level standing. Interaction, communica- tion and authority in economic organization; the factory as a social system.

SYP 3000 SOCIAL PSYCHOLOGY
PR: PSY 2012 or SYG 2000. Behavior of the individual human being as affected by social and cultural influences of modern society.
WOMEN'S STUDIES PROGRAM
Coordinator: J. Ochshorn; Professors: L. L. McAllister, J. Ochshorn; Professor Emeritus: J. H. Williams; Associate Professors: M. Myerson, J. B. Snook; Assistant Professor: E. B. Britt.

AFA 4335 BLACK WOMEN IN AMERICA (3)
PR: WST 2010, 2011, or AFA 2011, or Cl. An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience. (Offered for credit in Women's Studies or African and Afro-American Studies.)

AMH 3561 AMERICAN WOMEN I (4)
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in Women's Studies.)

AMH 3562 AMERICAN WOMEN II (4)
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in Women's Studies.)

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY (3)
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)

ANT 4302 SEX ROLES IN CROSSCULTURAL PERSPECTIVE (3)
PR: ANT 3410 or Cl. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (Also offered under Anthropology.)

LIT 3383 IMAGE OF WOMEN IN LITERATURE (4)
An historical literary analysis of stereotyped and liberated female images from Sappho through the emergence of the women's movement. (May also be taken for credit in English.)

POE 4693 WOMEN AND LAW (4)
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and nonmajors. (May also be taken for credit in Political Science.)

REL 3145 WOMEN AND RELIGION -6A (4)
Status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Religious Studies.)

SOP 3742 PSYCHOLOGY OF WOMEN (3)
Theories of female personality. Current research on socialization, sexuality, reproduction. Emerging lifestyles and developmental tasks of the life cycle. (May also be taken for credit in Psychology.)

SYD 4800 SOCIOLOGY OF SEX ROLES (3)
PR: SYG 2000, WST 2010 or 2011; or Cl. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (Also offered under Sociology.)

WST 2010 INTRODUCTION TO WOMEN'S STUDIES (3)
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.

WST 2011 ISSUES IN FEMINISM (3)
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

WST 3210 WOMEN IN WESTERN CIVILIZATION I -6A (3)
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, religion of power to gender. (May also be taken for credit in History.)

WST 3220 WOMEN IN WESTERN CIVILIZATION II (3)
Survey of European women from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in History.)

WST 3270 AMERICAN WOMAN IN CONTEMPORARY SOCIETY I (3)
An analysis of the status and opportunities of contemporary American women in their social context, using both historical and socio-psychological data. (Only offered on the Ft. Myers campus)

WST 3271 AMERICAN WOMAN IN CONTEMPORARY SOCIETY II (3)
An analysis of current issues facing American women, focusing on the nature and consequences of stereotyping, and on women and employment, creativity, health issues, the family, aging, poverty and abuse. (Only offered on the Ft. Myers campus)

WST 3275 WOMEN IN THE DEVELOPING WORLD (3)
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in International Studies.)

WST 3360 MEN AND SEXISM (3)
Ways in which sex role conditioning affects the lives of men. Fac-
WST 4309 THE FEMALE EXPERIENCE IN AMERICA (3)
PR: WST 2010, or WST 2011, or CI. The female experience in America, in historical context, viewed through the writings of women of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in History.)

WST 4310 FEMINISM IN AMERICA (3)
PR: WST 2010, or WST 2011, or CI. Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in History.)

WST 4320 WOMAN'S BODY/WOMAN'S MIND (3)
An analysis of the historical, social and political perspectives of women's health and healing experiences, and how woman's role as patient and provider of care are shaped by public and cultural assumptions.

WST 4380 HUMAN SEXUAL BEHAVIOR (3)
The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially female sexuality.

WST 4900 DIRECTED READINGS (1-3)
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.

WST 4910 DIRECTED RESEARCH (1-3)
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.

WST 4930 SELECTED TOPICS (1-4)
PR: WST 2010 or CI. Study in special areas such as Feminist Ethics, Women Artists, etc.

WST 4935 SEMINAR IN WOMEN'S STUDIES (3)
PR: WST 2010 or CI. In-depth study of research in one or more areas of topical interest to students and staff. Research involvement by students required.
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<td>Director, Space Utilization and Analysis</td>
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<td>MELONESE STRONG</td>
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<td>Director, Community Relations</td>
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<td>Director, Government Relations</td>
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<td>Coordinator of Government Relations for Health Affairs</td>
<td>JEFFREY MUIR</td>
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<tr>
<td>Name</td>
<td>Position and Institution</td>
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<tr>
<td>Achenbach, Karl E.</td>
<td>Assistant Professor (Psychiatry), 1979</td>
</tr>
<tr>
<td>Ackerman, Doris J.</td>
<td>University Librarian (University Libraries), 1969</td>
</tr>
<tr>
<td>Ackerman, Neil B.</td>
<td>Visiting Associate Professor (Pediatrics), 1986</td>
</tr>
<tr>
<td>Ackermann, John R.</td>
<td>Visiting Professor (Surgery), 1983 (Part Time)</td>
</tr>
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<td>Ahmad, Ibrahim A.</td>
<td>Associate Professor (Mathematics), 1983</td>
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<td>Ahrens, Vicki W.</td>
<td>Student Affairs Coordinator (Admissions, Student Affairs), 1974</td>
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<td>Arch-Amor, Ingrid L</td>
<td>Assistant in Research (Obstetrics/Gynecology), 1986</td>
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<td>Ash, David M.</td>
<td>Assistant Professor (Music), 1986</td>
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<tr>
<td>Al-Arian, Sam A.</td>
<td>Assistant Professor (Computer Science and Engineering), 1986</td>
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<tr>
<td>Albers, Bradley G.</td>
<td>Associate Professor (Music-SYCOM), 1978</td>
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<tr>
<td>Alberto, Louis M.</td>
<td>Assistant Professor (Accounting), 1986</td>
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<tr>
<td>Alexander, Luella K.</td>
<td>Lecturer (Sociology), 1972</td>
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<tr>
<td>Alexander, Michael D.</td>
<td>Clinical Psychologist (Counseling), 1975</td>
</tr>
<tr>
<td>Alexander, Helen D.</td>
<td>Assistant University Librarian (University Libraries), 1982</td>
</tr>
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<td>Alexander, Steven J.</td>
<td>Assistant Vice President (University Relations), 1986</td>
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<td>Allen, Deborah E.</td>
<td>Visiting Assistant in Education, 1986</td>
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<td>Allen, Harold C.</td>
<td>Associate Professor (Information Systems Decision Sciences), 1967</td>
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<td>Allen, Nola A.</td>
<td>Associate Professor (Interdisciplinary Social Science), 1979</td>
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<td>Allen, Robert L.</td>
<td>Director, Information Services (Office of Public Affairs, University Relations), 1985</td>
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<td>Alpert, Jean R.</td>
<td>Visiting Instructor (Public Sector Medicine-Nursing), 1985</td>
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<td>Assistant Professor (Surgery), 1983</td>
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<td>Anderson, Carmen S.</td>
<td>Assistant in Research (Crime &amp; Delinquency, FMM), 1986</td>
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<td>Anderson, Maria J.</td>
<td>Director (Student Health Services, Student Affairs), 1978</td>
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<td>Anderson, Melvin W.</td>
<td>Professor-Chairperson (Civil Engineering and Mechanics), 1969</td>
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<td>Anderson, Nancy A.</td>
<td>Assistant Professor (Childhood Education), 1985</td>
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<td>Angel, Jeffrey L.</td>
<td>Visiting Assistant Professor (Obstetrics and Gynecology), 1984</td>
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<td>Angrosino, Michael V.</td>
<td>Professor-Chairperson (Anthropology), 1972</td>
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<tr>
<td>Aube, James M.</td>
<td>Vice Provost (Provost's Office), Professor (Psychology), 1974</td>
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<tr>
<td>Aube, M. A.</td>
<td>Ph.D., Catholic University of America, 1957</td>
</tr>
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<td>Anton, John P.</td>
<td>Professor (Philosophy-Classics)</td>
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<td>Applegate, Minerva I.</td>
<td>Professor (Nursing)</td>
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<td>Archer, Cynthia S.</td>
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<td>Arsenault, Kathleen H.</td>
<td>Associate University Librarian (University Library)</td>
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<tr>
<td>Aubin, Raymond G.</td>
<td>Associate Professor (History)</td>
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<td>Professor (Pediatrics)</td>
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<td>Azar, Henry A.</td>
<td>Professor (Pathology)</td>
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<td>Babu, Addagatla J. G.</td>
<td>Assistant Professor (Industrial &amp; Management Systems Engineering)</td>
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<td>Baker, Roberta D.</td>
<td>Assistant Professor (Anthropology)</td>
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<td>Bagley, Ann H.</td>
<td>Assistant Professor (Contents Specialization, Education)</td>
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<td>Bagley, Daniel S. Iii</td>
<td>Associate Professor (Mass Communications)</td>
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<td>Balfour, Alan</td>
<td>Associate Professor (Management)</td>
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<td>Banes, Ruth A.</td>
<td>Associate Professor (American Studies)</td>
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<td>Banov, Samuel N.</td>
<td>Professor (Public Health)</td>
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<td>Barber, Michael J.</td>
<td>Assistant Professor (Biochemistry)</td>
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<td>Barker, Gerald R.</td>
<td>Associate Professor (Childhood Education)</td>
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<td>Barnard, James W.</td>
<td>Professor (Psychological and Social Foundations Education)</td>
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<td>Barnett, Lewis A.</td>
<td>Professor-Chairperson (Pediatrics)</td>
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<td>Barrett, Andrew J.</td>
<td>Assistant Dean-Instructor (Engineering)</td>
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<td>Bartels, Loren J.</td>
<td>Assistant Professor (Surgery)</td>
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<td>Bartlett, Alton C.</td>
<td>Professor (Management)</td>
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<tr>
<td>Baudo, Larry A.</td>
<td>Assistant Business Manager (Medical Center)</td>
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<td>Baub, Margaret L.</td>
<td>Professor (Social Sciences)</td>
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<td>Baumgartner, Steven A.</td>
<td>Associate Professor (Marketing)</td>
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<td>Banark, Antonio M.</td>
<td>Assistant Professor (Anesthesiology)</td>
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<td>Beach, Dorothy, R.</td>
<td>Counselor/Advisor (Counseling Center for Human Development, Student Affairs)</td>
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<td>Beach, Ray J.</td>
<td>Assistant Professor (Psychology)</td>
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<td>Beall, Kathleen</td>
<td>Student Affairs Coordinator (University Housing, Student Affairs)</td>
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<td>Beasley, Bob L.</td>
<td>Associate Professor (Physical Education, Education)</td>
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<td>Beasley, Gena G.</td>
<td>Assistant Athletic Coach (Women's Athletics, Student Affairs)</td>
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<td>Beatty, M. Eiken</td>
<td>Assistant Professional (Surgery)</td>
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<tr>
<td>Beck, Roy W.</td>
<td>Associate Professor (Ophthalmology)</td>
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<td>Becker, Judith A.</td>
<td>Assistant Professor (Psychology)</td>
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<td>Beedenfield, Sherry A.</td>
<td>Athletic Coach (Intercollegiate Athletics)</td>
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<tr>
<td>Bedington, Martha M.</td>
<td>Assistant Professor (Child and Family Studies, FMID)</td>
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<td>Beent, Jorke, Arie</td>
<td>Professor (Finance)</td>
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<td>Beinke, Corinne M.</td>
<td>Associate In Research (International Exchange Center on Genontology)</td>
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<td>Beinein, Roy H.</td>
<td>Professor-Chairperson (Internal Medicine)</td>
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<td>Bell, James A.</td>
<td>Associate Professor (Philosophy)</td>
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<td>Bell, Susan S.</td>
<td>Associate Professor (Biology)</td>
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<td>Bellak, Donald M.</td>
<td>Professor-Chairperson (Economics)</td>
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<td>Beihl, John M.</td>
<td>Professor (History)</td>
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<td>Belkon, Robert F.</td>
<td>Visiting Assistant Professor (Pediatrics)</td>
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<td>Bell, Robert J.</td>
<td>Professor (Surgery)</td>
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<tr>
<td>Bell, Jack W.</td>
<td>Associate Professor (Theatre Arts)</td>
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<tr>
<td>Bence, Katherine S.</td>
<td>Instructor (Neurology)</td>
</tr>
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</table>
BENEDETTI, Robert, Provost-Professor (Social Science), New College of USF, 1975 Sarasota Campus
B.A.; M.A., Ph.D., University of Pennsylvania, 1973

BENFORD, Stephen A., Assistant In (Pediatrics), 1981
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BENTLEY, Joseph G., Professor-Program Director (English), 1961
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BENTON, John, Assistant Professor-Chairperson (Political Science), 1978
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BENTON, Thelma D., Academic Administrator (Undergraduate Studies, Academic Affairs), 1969
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BERGER, Lawrence D., Professor-Chairperson (Dance, Fine Arts), 1981
Professional Graduate Diploma, The Juilliard School, 1963

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BERKLEY, Richard J, Assistant Professor (Physics), 1963
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BERMAN, Leon J., Student Affairs Coordinator (Career Resource Center, Undergraduate Studies), 1977
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BERNARD, Adele S., Associate University Comptroller (Finance and Accounting), 1968
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BESLY, Scott, Assistant Professor (Finance), 1982
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BETZ, John V., Associate Professor (Biology), 1963
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BETTER, Peter, Professor-Chairperson (Marine Science), 1971 St. Petersburg Campus
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BEVILACQUA, Jeanette W., Associate Professor (Nursing), 1977
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BIERSDORF, William R., Professor (Ophthalmology), 1978
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BIFORD, Jerris S., Jr., Professor (Chemistry), 1961
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BIRKEN, Stanley J., Professor (Information Systems Decision Sciences), 1969
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BLACKSHEAR, William M., Jr., Associate Professor (Surgery), 1979
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BLAIR, R. Clifford, Professor (Measurement and Research Education), 1975
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BLAKE, Norma J., Professor (Marine Science), 1972 St. Petersburg Campus
B.S.; M.S., Ph.D., University of Rhode Island, 1972

BLANK, William E., Associate Professor (Adult and Vocational Education), 1976
B.S.; M.S., Ph.D., Florida State University, 1976

BLAINE, James E., Instructor (Information Systems Decision Sciences), 1985
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BLENKORN, George H., Associate Director (Facilities Planning), 1977
B.C.N., University of Florida, 1954, P.E.

BLOCH, Sylvan C., Professor (Physica), 1963
B.S.; M.S., Ph.D., Florida State University, 1962

BLOM, Barry J., SUS Regional Data Center Systems Programmer (University Computing Services), 1984
B.A.; M.A., M.A., Southern Illinois University, 1974

BLONT, William R., Professor (Criminal Justice), 1968
B.A.; M.A.; Ph.D., George Peabody College, 1969

BLUE, Barbara A., Vice President (University Relations), 1984

BOATWRIGHT, Earl W., Jr., Assistant Professor (Marketing), 1982
B.S.; M.B.A.; Ph.D., University of Arkansas, 1983

BOCHNER, Arthur P, Professor-Chairperson (Communication), 1984
B.S.; M.A.; Ph.D., Bowling Green State University, 1971

BOOHS, Roy A., Associate Professor (Information Systems Decision Sciences), 1986
Ford Myer Campus
B.A.; M.A., Ph.D.; M.S.I.S., University of Pittsburgh, 1977

BOLTON, Steven E., Professor (Finance), 1978
B.S.; M.B.A., Ph.D., New York University, 1969

BOLTON, Thomas A., Assistant Professor (Pathology), 1984
B.S.; B.A.; M.D., University of South Florida, 1980

BOND, Joseph C., Jr., Professor (Educational Leadership Education), 1965

BROOKS, William G., Director (Student Publications, Student Affairs), 1986
B.S., M.A., University of Texas at El Paso, 1984

BORD, Jean M., Visiting Instructor (Educational Leadership and Higher Education) 1972
B.S.; M.Ed., University of Illinois, 1967

BORG, James A., Assistant Professor (Surgery) 1983 (Part Time)
B.A.; M.D., University of Minnesota, 1966

BOSTOW, Darrel E., Professor (Psychological and Social Foundations Education), 1970
B.A.; M.A., Ph.D., Southern Illinois University, 1970

BOTT, William K., Professor (Counselor Education), 1960

BOULDE, Charles A., Student Affairs Coordinator (Financial Aid, Student Affairs), 1986
B.S., M.A., University of Illinois, 1972

BOUS, Pierre J., Jr., Associate Dean-Associate Professor (Continuing Education, College of Medicine) Professor (Obstetrics/Gynecology), 1984
B.S.; M.S., M.D., Louisiana State University School of Medicine, 1971

BOWERS, James C., Professor (Electrical Engineering), 1965
B.E.; M.S., Sc.D., Washington University, 1964

BOWERS, Louis E., Professor (Physical Education, Education), 1967
B.S.; M.A.; Ph.D., Louisiana State University, 1964

BOWERS, Richard T., Director (Business Administration), 1963
B.S., M.S., Ed.D., George Peabody College, 1961

BOWMAN, R. Lewis, Professor (Political Science), 1973
B.A., Ph.D., University of North Carolina, 1964

BOWER, Kevin W., Assistant Professor (Computer Science Engineering), 1984
B.S.; Ph.D., Duke University, 1980

BOYCE, HENRY W., Jr., Professor (Internal Medicine), 1975
B.S.; M.S.; M.D., Bowman Gray School of Medicine, 1955

BOTO, FELICITAS, Visiting Instructor (Psychiatry), 1986 (Part Time)
B.S., University of Southern California, 1966

BOTO, HERBERT F, Professor (Exceptional Child Education), 1965
Sarasota Campus
B.S., M.S., Ph.D., University of Illinois, 1958

BOTT, William A., Academic Administrator (Child & Family Studies, FMH), 1981
B.A.; M.Div.; M.Ed.; Ph.D., Temple University, 1978

BOTT, Sarah E., Associate Professor (Nursing), 1977
R.N.; B.S.; M.S.; M.P.S., Long Island University, 1977

BRACKETT, John K., Assistant Professor (History), 1986
B.A., M.A., Ph.D., University of California, Berkeley, 1986
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<td>B.S.; M.A.; Ph.D., University of South Florida, 1984</td>
<td>B.C.E.; M.S.S.E.; Ph.D., Clemson University, 1973, P.E.</td>
<td>B.S.; M.A.; Ph.D., Indiana State University, 1979</td>
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<td>B.S.; M.A.; Ph.D., University of South Florida, 1980</td>
<td>B.A.; M.S.; Ph.D., University of Rochester, 1978</td>
<td>B.S.; M.A.; Ph.D., University of Kentucky, 1960</td>
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<td>B.S.; M.A.; Ph.D., University of South Florida, 1980</td>
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<td>B.S.; M.A.; Ph.D., University of Kentucky, 1960</td>
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<td>B.S.; M.A.; Ph.D., University of South Florida, 1979</td>
<td>Bachelor of Science in Engineering (Mechanics), 1970</td>
<td>B.S.; M.A.; Ph.D., University of Kentucky, 1960</td>
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<td>B.S.; M.A.; Ph.D., University of South Florida, 1970</td>
<td>Bachelor of Science in Engineering (Mechanics), 1970</td>
<td>B.S.; M.A.; Ph.D., University of Kentucky, 1960</td>
<td>1995</td>
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**FACULTY & ADMINISTRATIVE STAFF 235**
COKER, JOHN W., Associate Dean-Associate Professor (Fine Arts Events), 1969
B.S., M.M., College-Conservatory of Music, Cincinnati, 1956
COLE, NANCY B., Professor-Chairperson (Theatre), 1976
A.B., M.F.A. in Acting, State University of Iowa, 1964
COLE, ROGER W., Professor (Languages), 1969
B.A., M.A., Ph.D., Auburn University, 1968
COKER, CLARENCE H., Associate Professor (Adult and Vocational Education), 1968
B.S., M.E., University of Georgia, 1965
COLLIER, TROY L., Assistant to Vice President (Student Affairs), 1971
B.S.; M.L.A., Southern Methodist University, 1971
COLLINS, CYNTHIA S., Counselor/Advisor (Academic Advising), 1983
St. Petersburg Campus
B.A., University of South Florida, 1982
COLLINS, PASCHAL J., Assistant Professor (English), 1969
B.S., M.A.; Ph.D., University of Florida, 1978
COLOMBO, JORGE A., Professor (Anatomy), 1977
B.S.; M.D., Medical School of the Univ. of Buenos Aires, 1964
COMBRE, BYRON R., Visiting Assistant Professor (Education), 1983
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COMPTON, JOHN S., Assistant Professor (Marine Sciences), 1986 St. Petersburg Campus
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B.A.; M.D., Duke University School of Medicine, 1944
CONTIEH-MORGAN, EARL, Visiting Assistant Professor (Political Science), 1985
B.A.; M.A.; Ph.D., Northwestern University, 1984
COOK, WILLIAM E., Lecturer (Marketing), 1981
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B.S.; M.B.A.; Ph.D., University of Colorado, 1967
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B.S.; M.B.A., University of Denver, 1960
COOPER, CLARK B., Associate Professor (Humanities), 1969
B.A., M.A., Ph.D., Florida State University, 1969
COOVER, MICHAEL D., Assistant Professor (Psychology), 1985
B.A.; M.S.; Ph.D., Ohio State University, 1985
CORK, JOSEPH G., Professor (Internal Medicine), 1966
B.S.; Ph.D., Florida State University, 1963
COTTIER, LEO P., Assistant Professor (Training & Consultation Services, FMII), 1985
B.S.; M.A., Ph.D., Cornell University, 1963
COX, BARBARA C., Assistant to President (President's Office), 1974
B.A., William and Mary, 1958
COX, CHARLES E., Associate Professor (Surgery), 1983
B.A., M.D., University of Utah School of Medicine, 1975
COX, ERNEST L., III, Associate Professor (Radiology), 1982
B.S., M.D., University of Tennessee, 1975
COX, JAMES P., Professor (Psychology), 1982
Ph.D., Oregon State University, 1963
CRAIN, DAVID A., Director-Professor (Urban Design Center, Academic Affairs), 1986
B.S., B.Arch., M.C.P., Harvard University, 1952
CRAIN, ROGER A., Associate Professor (Chemical Engineering), 1974
B.S.; M.S.; Ph.D., Auburn University, 1973
CRAWFORD, JASPER H., Affirmative Action Officer, Equal Education Opportunity, 1982
B.S.; M.A., Webster College, 1981
CREANTO, JAMES L., Associate Professor (Public Health), 1986
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Crittenden, Jerry, Associate Professor (Communicology), 1971
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Crosby, John O., University Physical Planning Consultant (Facilities Planning), 1974
B.Arch., University of Florida, 1969
Crosby, Judith T., Visiting Coordinator (Education Leadership and Higher Education), 1984
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Cruse, C. Wayne, Assistant Professor (Surgery), 1979
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B.A.; M.P.A., Golden Gate University, 1980
Collison, Larry R., Professor (Music Education), 1981
B.M.E.; M.M.; M.F.A., University of Iowa, 1973
Cummings, Yvonne E., Visiting Instructor (Psychiatry), 1978
B.S.; M.D., Howard University College of Medicine, 1973
Cunningham, Virginia F., Associate University Librarian (University Libraries), 1976
B.A.; M.A., University of South Florida, 1976
Cuomo, Glenn R., Assistant Professor (Humanities), New College of USF, 1982 Sarasota Campus
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Curioni, J. Michael, Associate Professor (Pediatrics), 1977
B.S.; M.D., Georgetown Medical School, 1977
Curran, John S., Professor-Director (Pediatrics), Director (Neonatal Service), 1972
A.B.; M.D., University of Pennsylvania, 1966
Currey, Cecil B., Professor (History), 1967
A.B.; M.S.; Ph.D., University of Kansas, 1964
Curry, Ingrid H., Visiting Coordinator (Fine Arts), 1985
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Curtis, Thomas D., Professor (Economics), 1974
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Dagon, Eugene M., Associate Professor (Psychiatry), 1982
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Daly, John L., Instructor (Public Administration), 1986
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Dann, Carol L., Systems Coordinator (University Computing Services), 1985
B.S., Columbia University, 1967
Dao, Mr. Lieu, Assistant Professor (Pediatrics), 1986 St. Petersburg Campus
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Darling, Richard W., Assistant Professor (Mathematics), 1986
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Davis, Darrell L., Professor (Physiology), 1971
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Davis, Jefferson C., Jr., Professor (Chemistry), 1965
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Davis, Lowell E., Dean-Professor St. Petersburg Campus, 1986
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Davis, Mack, III, Coordinator (Academic Services), 1977
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Davis, Richard A., Jr., Professor (Geology), 1973
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B.S.; M.S.; M.D., Temple University School of Medicine, 1965

Long, Deltra L., Counselor/Advisor (Undergraduate Studies), 1983
B.A.; M.A., University of South Florida, 1974

Long, JoAnn, Professor (Childhood Education), 1969
A.B., M.Ed., Ph.D., Florida State University, 1969

Long, Marilyn C., Instructor (Nursing), 1978
B.S., M.S., Ohio State University, 1962

Long, Susan W., Associate Professor (Nursing), 1982
B.S.; M.B.A., Ph.D., University of South Carolina, 1976

Longstreet, James R., Professor (Nursing), 1967
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Longo, J. Mark, Associate Vice President (Development and Alumni Affairs), 1986
B.S.; M.A., Ph.D., New York University, 1976

Longo, Luz P., Instructor (International Language Institute), 1984
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Looper, Glenn W., Assistant In (Business Administration), 1984
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Lorenzen, William A. III, Professor (Theatre Arts), 1966
B.S.S.; M.F.A., Tulane University, 1966

Love, Lucy C., Assistant Professor (Surgery), 1984
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Lovell, Richard L., Professor (Content Specializations, Education), 1968
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Low, Alvin J., Professor (Childhood Education), 1966
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Lowe, Saul, Visiting Assistant Professor (Pediatrics), 1983
B.S., M.S.; University of South Florida, 1979
Lucarelli, Frank, Director (Sponsored Research), 1983
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Lucco, Manny, Professor (Mass Communications), 1963
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Lulu, Menes, Assistant Professor (Industrial and Management Systems, Engineering), 1985
B.S., M.S.E.; M.S.E., Ph.D., University of Alabama, Huntsville, 1985
Lupton, D. Keith, Program Director (Interdisciplinary Social Science), 1967
B.S.; LL.B.; M.A., Dartmouth College, 1951
Lusie, Concepcion R., Visiting Assistant Professor (Anesthesiology), 1966
B.S., M.D.; Medical School of Cadiz, Spain, 1980
Lyman, Charles P., Professor (Visual Arts), 172
Lyman, Gary H., Professor (Internal Medicine), 1977
B.A., M.D., Harvard, 1982
MacCullough, Douglas B., Director, Student Services (Lakeland Center Administrator) 1971
B.S., M.A., University of Florida, 1965
MacDonald, Gwendolyn R., Dean-Professor (Nursing), 1973
B.S.; M.A.; Ed.D., Columbia University, 1963
MacInnes, John W., Assistant Professor (Humanities, New College of USF), 1984 Sarasota Campus
B.A.; M.S.Ed.; Ph.D., Cornell University, 1953
Mack, Jeffrey A., Area Administrator (Housing and Auxiliary Services, Student Affairs), 1975
A.B.; M.A., University of South Florida, 1976
Mackey, Bernard A., Assistant Vice President (Provost's Office, Academic Affairs), 1972
B.F.A.; M.A.; Ph.D., University of Florida, 1977
MacPhail, Ian A., Associate Professor (Family Medicine), 1981
M.D., University of Toronto, 1956
Madan, Sunetta, Assistant In (Pediatrics), 1985
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Maher, Michael S., Visiting Assistant Professor (Psychiatry and Behavioral Medicine), 1983
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Majone, Louis I., Professor (Pediatrics), 1972
B.S.; M.D., University of Pennsylvania School of Medicine, 1967
Mamel, Jay J., Associate Professor (Internal Medicine), 1979
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Manick, William J., Director (Management), 1980
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Manielle, Leon, Dean-Professor (Natural Sciences), 1983
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Mandell, Sara R., Assistant Professor (Classics), 1984
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Mandler, Martha, Counselor/Adviser (Business), 1972
B.Ed.; M.A., University of Chicago, 1948
Manganello, Louis P., Assistant Athletic Coach (Intercollegiate Athletics), 1984
B.A., University of South Florida, 1984
Mangum, W. Calvin, Professor (Philosophy), 1982
Ph.D., Johns Hopkins University, 1982
Mather, George H., Professor (History), 1969 Sarasota Campus
B.A.; M.A.; Ph.D., University of Minnesota, 1948
Mazur, Joseph L., Professor-Chairperson (Measurement and Research Education), 1970
A.B.; M.A.; Ph.D., Case Western Reserve University, 1968
Mazur, John, Professor (Chemistry), 1961
B.S.; M.D., Indiana University, 1968
Maybury, P. Calvin, Professor (Chemistry), 1961
B.S.; Ph.D., Johns Hopkins University, 1972
Mayer, Edward, Assistant Proprietor (Pediatrics), 1972
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Mayer, George H., Professor (History), 1969 Sarasota Campus
B.A.; M.A.; Ph.D., University of Minnesota, 1948
Mazur, W. Calvin, Professor (Philosophy), 1982
Mazur, John, Professor (Chemistry), 1961
Mazur, Joseph L., Professor-Chairperson (Measurement and Research Education), 1970
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Mazur, John, Professor (Chemistry), 1961
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Maybury, P. Calvin, Professor (Chemistry), 1961
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McAuliffe, Linda L., Professor (Philosophy), 1982
B.A.; Ph.D., Cornell University, 1968
McCain, Hance G., Director, Alumni Affairs (Athletic Administration, Student Affairs), 1984
B.S., M.S., University of Tampa, 1978
McCarthy, Edwin J., Visiting Associate In (Gerontology), 1985
B.A., M.P.A., University of South Florida, 1983
McCarthy, Timothy L., Associate Director (University Center, Student Affairs), 1986
B.A., M.A.T., College of St. Thomas, 1974
McCullough, Leslie, Professor (Childhood Education), 1964
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McCullough, Paul E., Associate Dean-Professor (Educational Leadership Education), 1969 Sarasota Campus
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McCullough, Gregory L., Assistant Professor (Mathematics), 1986
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McCormick, Robert M., Associate Professor (Music Arts), 1974
B.A.; M.A.; San Jose State University, 1973
McCoy, Earl D., Associate Professor (Biology), 1978
B.S.; M.S.; Ph.D., Florida State University, 1977
McCrosky, John A., Professor-Chairperson (Library, Media, and Information Studies, Education), 1977
B.A.; M.A.; Ph.D., University of Illinois, 1966
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<td>McDermott, Robert J.</td>
<td>Associate Professor (Public Health)</td>
<td>B.S., M.S., Ph.D.</td>
<td>University of Wisconsin, Madison</td>
<td>1981</td>
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<td>McDermott, Susan</td>
<td>Professor</td>
<td>B.A., M.A., Ph.D.</td>
<td>Yale University</td>
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<td>McDonough, Gary W.</td>
<td>Associate Professor (Social Sciences)</td>
<td>B.A., M.A., Ph.D.</td>
<td>University of South Florida</td>
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<td>McFall, Susan</td>
<td>Instructor (International Institute)</td>
<td>B.S., M.A.</td>
<td>Southern Illinois University</td>
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<td>McFarland, Joe E.</td>
<td>Acting Assistant Athletic Coach</td>
<td>B.A.</td>
<td>University of Florida, South</td>
<td>1973</td>
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<td>McGinnis, Charles E.</td>
<td>Lecturer (Electrical Engineering)</td>
<td>B.E.E.</td>
<td>Massachusetts Institute of Technology</td>
<td>1974</td>
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<td>McGinnis, Diane</td>
<td>Assistant Professor (Psychology)</td>
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<td>Indiana University</td>
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<td>McLean, Edward F.</td>
<td>Professor (Languages)</td>
<td>B.A., Ph.D.</td>
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<td>McLaughlin, Thomas E.</td>
<td>Associate Dean-Professor (Medicine)</td>
<td>B.A.</td>
<td>University of Tennessee</td>
<td>1939</td>
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<td>McLaughlin, Thomas E.</td>
<td>Associate Professor (Visual Arts)</td>
<td>B.A.</td>
<td>Indiana University</td>
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<td>McLean, Edward F.</td>
<td>Professor (Languages)</td>
<td>B.A., Ph.D.</td>
<td>Duke University</td>
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<td>Visiting Instructor (Education)</td>
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<td>McMillan, Susan C.</td>
<td>Associate Professor (Nursing)</td>
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<td>McNair, Jeanne</td>
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<td>B.A.</td>
<td>Indiana University</td>
<td>1965</td>
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<td>McNeil, Vickie L.</td>
<td>Assistant to Vice President (Administrative Affairs)</td>
<td>B.A.</td>
<td>University of South Florida, 1978</td>
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<td>McRae, Sharman P.</td>
<td>Counselor/Advisor (Undergraduate Studies)</td>
<td>B.S., M.Ed.</td>
<td>University of Louisville</td>
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<td>Mckinney, John C.</td>
<td>Associate Vice President (Medical Center Administration)</td>
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<td>Florida Southern College</td>
<td>1959</td>
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<td>Mcllstraw, Rajiv</td>
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<td>B.S.</td>
<td>Wayne State University</td>
<td>1986</td>
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<td>Mcllstraw, Peter</td>
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<td>Associate Vice President (Medical Center Administration)</td>
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<td>Mendelblatt, Frank J.</td>
<td>Assistant Professor (Ophthalmology)</td>
<td>M.D.</td>
<td>University of Miami, Florida</td>
<td>1960</td>
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<tr>
<td>Menendez, Louis E.</td>
<td>Systems Programmer (RDC, University Computing Services)</td>
<td>B.A.</td>
<td>Florida Southern College</td>
<td>1979</td>
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<td>Mepes, Donald C.</td>
<td>Professor-Program Director (Public Administration)</td>
<td>B.A.</td>
<td>Pennsylvania State University</td>
<td>1974</td>
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<td>Mercado, John A.</td>
<td>Associate Professor (Exceptional Child Education)</td>
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<td>University of Pittsburgh</td>
<td>1970</td>
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<td>Metzger, Elizabeth A.</td>
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<td>Arizona State University</td>
<td>1974</td>
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<td>Meyers, Richard L.</td>
<td>Professor (Finance)</td>
<td>B.S., M.B.A., Ph.D.</td>
<td>University of Washington, Madison</td>
<td>1971</td>
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<td>Meyers, Richard W.</td>
<td>Systems Coordinator (University Computing Services)</td>
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<td>University of South Florida</td>
<td>1973</td>
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<td>Michael, James D.</td>
<td>Assistant Department Head-University Librarian</td>
<td>B.A.</td>
<td>University Libraries</td>
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<td>Michael, Theodore J.</td>
<td>Visiting Research Associate (Educational Leadership and Higher Education)</td>
<td>B.A.</td>
<td>University of South Florida</td>
<td>1983</td>
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<td>Michael, Charles E.</td>
<td>Assistant Professor (Management)</td>
<td>B.A.; M.D.</td>
<td>University of South Florida</td>
<td>1983</td>
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<td>Middleton, Lillian M.</td>
<td>Visiting Assistant Professor (Suncoast Gerontology Center)</td>
<td>B.A.</td>
<td>Florida State University</td>
<td>1974</td>
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<td>Miguel, Rafael V.</td>
<td>Assistant Professor (Anesthesiology)</td>
<td>B.A.</td>
<td>University of Seville, Cadiz Medical School, Spain</td>
<td>1981</td>
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<td>Mihalik, Kenneth G.</td>
<td>Visiting Instructor (Communication)</td>
<td>B.A.</td>
<td>University of Pittsburgh</td>
<td>1981</td>
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<tr>
<td>Milhan, Randall J.</td>
<td>Budget Analyst (University Budgets)</td>
<td>B.A., B.S.</td>
<td>Florida State University</td>
<td>1977</td>
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<td>Miller, Arthur M.</td>
<td>Professor (Humanities)</td>
<td>B.A.</td>
<td>University of South Florida</td>
<td>1975</td>
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<tr>
<td>Miller, Jonathan E.</td>
<td>Continuing Education Coordinator (Environmental Studies)</td>
<td>B.A.</td>
<td>New College of USF</td>
<td>1984</td>
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<tr>
<td>Miller, Karen L.</td>
<td>Associate in (Pediatrics)</td>
<td>B.A.</td>
<td>Cedar Crest College</td>
<td>1970</td>
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<tr>
<td>Miller, Larry</td>
<td>Associate In (Engineering)</td>
<td>B.A.</td>
<td>University of South Florida</td>
<td>1973</td>
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<tr>
<td>Miller, Linda A.</td>
<td>Visiting Counselor/Advisor (Counseling Center For Human Development, Student Affairs)</td>
<td>B.A.</td>
<td>North Carolina Central University</td>
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<tr>
<td>Miller, Lisa</td>
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<td>B.A.</td>
<td>Florida State University</td>
<td>1985</td>
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<tr>
<td>Miller, Margaret A.</td>
<td>Professor-Director (Visual Arts)</td>
<td>B.A.</td>
<td>University of Hawaii</td>
<td>1970</td>
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<tr>
<td>Miller, R.</td>
<td>Assistant Professor (Social Sciences)</td>
<td>B.A.</td>
<td>University of South Florida</td>
<td>1974</td>
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<tr>
<td>Miller, Sharon G.</td>
<td>Assistant Professor (Psychiatry)</td>
<td>B.A.</td>
<td>Carleton University</td>
<td>1974</td>
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<tr>
<td>Milliken, Dean M.</td>
<td>Acting Director (Florida Institute of Oceanography)</td>
<td>B.A.</td>
<td>St. Petersburg Campus</td>
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<tr>
<td>Mitani, Masahiro</td>
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<td>St. Petersburg Campus</td>
<td>1971</td>
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<tr>
<td>Mitchell, Susan M.</td>
<td>Director (Institutional Research)</td>
<td>B.A.</td>
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<tr>
<td>Mitchell, G.</td>
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<td>B.A.</td>
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<tr>
<td>Mockler, Brian M.</td>
<td>Associate Director for Administrative Services (Student Health Services, Student Affairs)</td>
<td>B.A.</td>
<td>Texas A&amp;M University</td>
<td>1963</td>
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<td>Moffitt, Karen A.</td>
<td>Visiting Assistant Professor (Psychiatry)</td>
<td>1983</td>
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<td>B.A., M.A., Ph.D.</td>
<td>University of South Florida, 1982</td>
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<td>Morey, Debra A.</td>
<td>Assistant in Educational Leadership and Higher Education</td>
<td>1970</td>
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<td>B.A., Anderson College</td>
<td>1961</td>
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<td>Monroe, Annette Y.</td>
<td>Instructor (Music Arts)</td>
<td>1973</td>
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<td>B.M., Oberlin College Conservatory of Music</td>
<td>1963</td>
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<td>Montenegro, Raul</td>
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<td>1982</td>
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<td>M.D., San Carlos University Medical School</td>
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<td>Montgomery, Mark R.</td>
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<td>1984</td>
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<td>B.S.; Ph.D., Johns Hopkins University</td>
<td>1972</td>
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<td>Moon, James E.</td>
<td>Associate Professor (Accounting)</td>
<td>1983</td>
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<td>B.S., M.A., Ph.D.</td>
<td>University of Alabama, 1970</td>
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<td>Moon, James R.</td>
<td>Assistant Professor-Program Director (Aging and Mental Health, FMHII)</td>
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<td>B.A.; M.S., Ph.D., Virginia Polytechnic Institute and State University</td>
<td>1982</td>
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<td>Moore, Harvey A.</td>
<td>Associate Professor-Program Director (Sociology)</td>
<td>1974</td>
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<td>B.A.; M.S.; Ph.D., Case Western Reserve University</td>
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<td>Moore, Jack B.</td>
<td>Professor-Chairperson (American Studies)</td>
<td>1962</td>
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<td>B.A.; M.A.; Ph.D., University of North Carolina, 1963</td>
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<td>Moore, John D.</td>
<td>Associate Professor (Humanities), New College of USF, 1980 Sarasota Campus</td>
<td>1982</td>
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<td>A.B.; A.M., Ph.D., Stanford University</td>
<td>1969</td>
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<td>Moore, Judy</td>
<td>Visiting Assistant in College Administration, Education</td>
<td>1985</td>
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<td>Moore, Richard H.</td>
<td>Assistant Professor (Criminal Justice)</td>
<td>1986</td>
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<td>B.A.; Ph.D., University of Nebraska, Lincoln</td>
<td>1972</td>
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<td>Moore, Stephen B.</td>
<td>Instructor (Information Systems &amp; Decision Sciences)</td>
<td>1976</td>
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<td>B.A., M.B.A., University of South Florida, 1976</td>
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<td>Morales, Walter J.</td>
<td>Visiting Assistant Professor (Obstetrics and Gynecology)</td>
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<td>Moravec, Laura L.</td>
<td>Assistant Professor (Natural Sciences), New College of USF, 1982 Sarasota Campus</td>
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<td>B.A.; M.A., Ph.D., University of Oregon</td>
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<td>Morehouse, Lawrence</td>
<td>Instructor (Political Science)</td>
<td>1985</td>
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<td>B.A., M.A., Cornell University</td>
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<td>Assistant in Research (Pediatrics)</td>
<td>1984</td>
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<td>Morris, Breland M.</td>
<td>Assistant Department Head/Assistant University Librarian (University Libraries), 1975 Sarasota Campus</td>
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<td>Morninno, Gary R.</td>
<td>Associate Professor (History)</td>
<td>1977</td>
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<td>Professor (Natural Sciences), New College of USF, 1975 Sarasota Campus</td>
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<td>B.A.; M.S.; Ph.D., Florida State University</td>
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<td>Morris, Breland M.</td>
<td>Assistant Department Head/Assistant University Librarian (University Libraries), 1975 Sarasota Campus</td>
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<td>Visiting Associate Professor (Diabetes Center)</td>
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<td>Assistant to the Vice President (University Relations)</td>
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<td>Director, Human Resource Development (Administrative Affairs), 1980</td>
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<td>Assistant in Research (Florida Institute of Oceanography), 1985 St. Petersburg Campus</td>
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<td>Associate Professor (Mathematics), 1976</td>
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<td>Professor (Interdisciplinary Social Science), 1972</td>
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<td>Professor (Academic Support), 1971, Fort Myers Campus</td>
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<td>Professor (Psychology), 1967</td>
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<td>Nelson, Louis R.</td>
<td>Director (Laboratory Animal Medicine) Associate Professor (Medical Microbiology), 1971</td>
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<td>Professor (Sociology), 1968</td>
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<td>Professor (Childhood Education)</td>
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<td>Student Affairs Coordinator (Admissions, Student Affairs)</td>
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<td>Professor (Internal Medicine)</td>
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<td>B.S., M.S., University of Frankfurt and Freiburg Medical Schools, 1964</td>
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<td>Professor (Humanities), New College of US</td>
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<td>Professor (Interdisciplinary Social Science)</td>
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<td>Ohagbulam, Festus U.</td>
<td>Professor-Program Director (Afro-American Studies)</td>
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<td>B.A.; M.A.; Ph.D., University of Denver, 1967</td>
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<td>O'herron, Virginia S.</td>
<td>Acting Director (US Extension Library), St. Petersburg Campus</td>
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<td>Professor (Civil Engineering and Mechanics)</td>
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<td>Visiting Associate In (Criminology, Delinquency)</td>
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<td>Coordinator (Academic Advising)</td>
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<td>O'ur, Craig R.</td>
<td>Assistant In Research (Geology)</td>
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<td>Outerbridge, Y-Hwai S.</td>
<td>University Physician (Student Health Services, Student Affairs)</td>
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<td>B.S., M.D., University of South Florida, 1982</td>
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<td>Associate Professor (Music)</td>
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<td>Professor (Chemistry)</td>
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<td>B.S.; M.A., University of Manchester, England, 1964</td>
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252 FACULTY & ADMINISTRATIVE STAFF

Owen, William D., Professor (Music Arts), 1964
B.S.; M.M., North Texas State University, 1960

Pacione, June E., Assistant in (Pathology), 1978
B.S., University of Illinois, 1972

Padgett, Gregory B., Coordinator (Undergraduate Studies), 1984
B.A.; M.A., Florida State University, 1977

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B.S.; M.B.B.S., D.C.H., M.D., Medical College, Indore, India, 1969

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RATLIFF, JOHN L., Associate Professor (Civil Engineering and Mechanics), 1969
B.S.; M.S.; Ph.D., Ohio State University, 1969
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B.S., M.S.; Ph.D., Wayne State University, 1966
RAUSCH-MEDINA, JAVIS, Visiting Assistant Professor (Psychiatry), 1984
B.A.; M.D., National University of Buenos Aires, 1977
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REED, JAMES H., Associate Professor (Mathematics), 1963
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REED, JANE G., Counselor/Advisor (Academic Services), 1969
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REYNOLDS, JERALD M., Associate Professor (Music Arts), 1966
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SCHNITZLEIN, HAROLD N., Professor (Anatomy), 1973
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SHEKHTMAN, BORIS, Associate Professor (Mathematics), 1986
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SHELTER, SUE A., Associate Professor (Pathology), 1978
B.A.; M.S., Loyola University of Chicago, 1974
SHEPHERD, DAVID C., Professor (Communication), 1972
B.A., M.A., Ph.D., Syracuse University, 1962
SHERMAN, BARBARA R., Dean-Associate Professor of Education (Human Development and Family Studies), 1963
B.A.; M.A.; M.S.; Ph.D., University of Georgia, 1970
SHERMAN, JOHN T., Assistant Professor (Internal Medicine), 1983
B.S.; M.S.; Ph.D., University of Miami, 1968
SHIRES, MARVIN, Professor (Economics), 1986
B.A.; Ph.D., Duke University, 1959
SHIRE, DANA L., Jr., Professor (Internal Medicine), 1973
B.S., M.D., University of Florida, 1961
SHIVER, ROBERT H., Area Administrator (Golf Course, Student Affairs), 1969
B.S., University of Florida, 1961
SHOPE, E. WARREN, Professor (Economics), 1964
B.B.A., M.B.A., Ph.D., Georgia State University, 1968
SHULMAN, DOROTHY L., Visiting Assistant Professor (Pediatrics), 1985
B.A.; M.D., University of Kansas, 1978
SIDOWSKI, JERZY B., Professor (Psychology), 1969
B.A.; M.S., Ph.D., University of Wisconsin, 1956
SIEBEL, JERRY D., Associate Professor (Accounting), 1976
B.B.A.; M.S., University of California, 1967, C.P.A.
SIKES, MICHAEL V., Visiting Assistant in Education (Institute For Instructional Research and Practice), 1986
B.A., University of New Haven, 1971
SIMBER, EDWARD M., Associate Dean (Social and Behavioral Sciences), 1965
B.A.; M.A.; Ph.D., University of Florida, 1966
SILBER, MARTIN L., Professor-Chairperson (Radiology), 1973 (Part Time)
A.B.; M.D., Western Reserve University, 1962
SILVER, ARTHUR I., Professor (Psychiatry), 1978
B.S.; M.D., New York University College of Medicine, 1940
SILVER, BRUCE S., Professor (Philosophy), 1971
B.A., M.A., Ph.D., University of Colorado, 1971
SILVER, STEEN E., Assistant Professor (Epidemiology & Policy Analyst, FMHB), 1985
B.A., M.A., Ph.D., University of Florida, 1983
SILVER, WARREN S., Professor (Biology), 1970
B.S.; M.S.; Ph.D., Johns Hopkins University, 1953
SIMBERMAN, IRA J., Professor (Criminal Justice), 1972
B.A.; M.A., Ph.D., Ohio State University, 1970
SIMBERMAN, MANUEL, Professor (Criminal Justice), 1968
B.A.; M.S.; Ph.D., Ohio State University, 1966
SIMPSON, A. KEITH, Director (Procurement), 1969
B.A., University of South Florida, 1968
SIMPSON, JOSEPH L., Professor (Economics), 1963
B.S.; M.S., Ph.D., University of New Hampshire, 1963
SINGH, SURENTRA P., Professor (Exceptional Child Education), 1967
B.A.; M.A.S.; Ed.D., University of California, Los Angeles, 1967
SINGLETARY, MILTON B., Student Affairs Coordinator (University Center, Student Affairs), 1961
SIRNA, JOHN T., Assistant Professor (Internal Medicine), 1986
B.S.; M.A.; Ph.D., University of Texas at Austin, 1985
SISAK, DOROTHY D., Professor (Exceptional Child Education), 1966
B.S.; M.A.; Ed.D., University of California, Los Angeles, 1966
SISTRUNK, FRANCES, Professor (Psychology), 1965
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SIZEMORE, RUSSELL F., Visiting Instructor (Humanities), New College of USF, 1986 Sarasota Campus
A.B.; M.A.R.; M.A., Harvard University, 1983
SKALI, OLGA O., University Counseling Psychologist (Counseling Center for Human Development, Student Affairs), 1985
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SKINNERS, JOHN F., Assistant Dean-Assistant Professor (Public Health), 1984
B.S.; M.S.; Ed.D., Columbia University Teachers College, 1974
SLIDER, DARRELL, Associate Professor (Interdisciplinary Social Sciences), 1981
B.A.; M.A., M.Phil., Ph.D., Yale University, 1981
SMALL, NORMAN C., Professor (Civil Engineering and Mechanics), 1969
B.M.E.; M.M.E.; Ph.D., University of Missouri, 1969
SMICHER, RHEINAND N., Director (Medical Clinics), 1983
B.S., Atlantic Christian College, 1966
SMITH, JON H., Assistant Athletic Coach (Intercollegiate Athletics), 1983
SMOLIE, DAVID, Professor (Social Sciences), New College of USF, 1975 Sarasota Campus
B.A.; M.A.; Ph.D., Cornell University, 1953
SMITH, ALICE G., Professor (Library, Media and Information Studies Education), 1965
B.A.; M.S.; Ed.D., Wayne State University, 1965
SMITH, CARLOS A., Professor (Chemical Engineering), 1972
B.S.; M.S., Ph.D., Louisiana State University, 1972
SMITH, CHARLES D., Professor (Professional Physical Education, Education), 1967
B.A.; M.S.; Ed.D., Temple University, 1967
SMITH, DAVID H., Professor (Comprehensive Medicine), 1976
B.S.; M.A.; Ph.D., Ohio State University, 1966
SMITH, ELIZABETH, University Librarian (University Libraries), 1981
B.A.; M.S.; M.L.S., Case Western Reserve University, 1976
SMITH, ELTON E., Professor (English), 1961
B.S.; M.A.; B.D.; Ph.D., Syracuse University, 1961, D.D. (Hon.)
SMITH, HENRIETTA M., Associate Professor (Library Media and Information Studies, Education), 1985
B.A.; B.S.L.S., M.L.S.; Ed.D., University of Miami, Florida, 1975
SMITH, JACOB, Professor (Accounting), 1969
B.B.A.; M.S., Ph.D., University of Mississippi, 1969, C.P.A.
SMITH, JEROME, Associate Professor (Anthropology), 1972
B.A.; M.A.; Ph.D., University of Arizona, 1972
SMITH, JEROME J., Acting Dean-Professor (Fine Arts), 1972
B.M.E.; M.M.E.; D.M.A., University of Missouri, 1979
SMITH, JUEL H., Counselor/Advisor (Counseling Center for Human Development, Student Affairs), 1974
B.A.; M.A., University of South Florida, 1973
SMITH, PHILIP L., Associate Professor-Chairperson (Social Work), 1975
B.S.; M.S.W., University of Georgia, 1968
SMITH, SUSAN M., Academic Administrator (University Computing Services), 1986
B.A.; M.B.A., University of South Florida, 1986
SMITH, WILLIAM A., Professor-Assistant Chairperson (Mechanical Engineering), 1966
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<tr>
<th>Name</th>
<th>Position/Title</th>
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<tr>
<td>B.S.M.E.; M.S.; Ph.D., University of Florida, 1966</td>
<td>SNADER, Jon C., Assistant Professor (Mathematics)</td>
<td>University of Illinois</td>
<td>1962</td>
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<td>B.S.; M.S.; Ph.D., University of Illinois, 1962</td>
<td>SNIDER, Arthur D., Associate Professor (Electrical Engineering)</td>
<td>University of Illinois</td>
<td>1970</td>
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<td>B.S.; M.A.; Ph.D., New York University, 1971</td>
<td>SPARKS, Amy J., Professor (Humanities)</td>
<td>University of South Carolina, 1979</td>
<td>1970</td>
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<td>A.B.; M.S.; Ph.D., University of Maryland, 1969</td>
<td>Snyder, Karolyn J., Associate Professor (Educational Leadership and Higher Education), 1983</td>
<td>University of Baltimore</td>
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<td>B.A.; M.Ed.; Ed.D., Texas Technical University, 1977</td>
<td>Snyder, Lee D., Professor (Social Science)</td>
<td>New College of New York, 1975</td>
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<td>B.A.; M.A.; M.Div.; Ph.D., Harvard University, 1966</td>
<td>Snyder, Robert E., Associate Professor (American Studies)</td>
<td>University of South Carolina, 1980</td>
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<td>B.A.; M.A.; Ph.D., Syracuse University, 1980</td>
<td>Snyder, Walter S., Assistant Professor (Industrial and Management Systems Engineering), 1981</td>
<td>University of South Carolina, 1981</td>
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<td>B.A.; M.B.A., M.S.E., Ph.D., University of South Florida, 1984</td>
<td>Sodeman, William A., Jr., Professor-Chairperson (Comprehensive Medicine)</td>
<td>University of South Florida, 1984</td>
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<td>B.S., M.D., University of Maryland School of Medicine, 1969</td>
<td>Solomon, Paul J., Professor-Chairperson (Marketing)</td>
<td>University of South Florida, 1979</td>
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<td>B.S.; Ph.D., Duke University, 1959</td>
<td>Solomon, Larry P., Professor-Acting Chairperson (Biochemistry), 1976</td>
<td>University of South Florida, 1976</td>
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<td>B.A.; Ph.D., University of Chicago, 1969</td>
<td>Sommer, Ada M., Associate Professor (Psychiatry), 1976 (Part Time)</td>
<td>University of South Florida, 1976</td>
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<td>B.A., Augustana College, 1975</td>
<td>Soloris, Sophia M., Associate In (Business Administration), 1984</td>
<td>University of South Florida, 1984</td>
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<td>B.A.; M.I.B.S., University of South Carolina, 1982</td>
<td>* Spain, Frank H. Director (Community College Relations), 1959</td>
<td>University of South Florida, 1959</td>
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<td>B.S.; M.S.; Ed.D., University of Florida, 1954</td>
<td>Speck, Amy J., Professor (Humanities), 1965</td>
<td>University of South Florida, 1965</td>
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<td>B.A.; M.A., Ph.D., University of South Florida, 1964</td>
<td>Spector, Barbara, Assistant Professor (Content Specializations, Education), 1975</td>
<td>University of South Florida, 1975</td>
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<td>B.A.; M.S., C.A.S., Ph.D., Syracuse University, 1977</td>
<td>Spector, Barbara, Assistant Professor (Content Specializations, Education), 1975</td>
<td>University of South Florida, 1977</td>
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<td>B.A., University of South Florida, 1983</td>
<td>Spence, James G., Associate Professor (Economics), 1975</td>
<td>University of South Florida, 1975</td>
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<td>B.S., M.A., Ph.D., University of Oklahoma, 1979</td>
<td>Spellman, Carolin V., Associate Professor (Childhood and Language Arts Education), 1977</td>
<td>University of Texas, 1977</td>
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<td>B.S., M.D., Northwestern University, 1960</td>
<td>Sprengler, Charles D., Graduate Research Professor (Psychology), 1972</td>
<td>University of South Florida, 1972</td>
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<td>B.A.; B.A., Ph.D., University of Iowa, 1954</td>
<td>Spillane, James R., Associate Professor (Humanities), 1966</td>
<td>University of South Florida, 1966</td>
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<td>B.S.; M.A., University of Iowa, 1966</td>
<td>Spillman, Carolyn V., Associate Professor (Childhood and Language Arts Education), 1977</td>
<td>University of Texas, 1977</td>
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258 FACULTY & ADMINISTRATIVE STAFF

Stewart, Gregory J., Assistant Professor (Biology), 1985
B.S., M.S.; Ph.D., University of California at Davis, 1984

Stewart, Mark T., Associate Professor (Geology), 1976
A.B.; M.S., M.S., Ph.D., University of Wisconsin, 1976

Stevens, William E., Professor (Medical Microbiology), 1982
B.S.; M.S., Ph.D., University of Texas Southwestern Medical School, 1969

Stirling, Hamilton W., Lecturer (Management), 1971 St. Petersburg Campus
B.S.; M.B.A., Rutgers University, 1968

Stockard, Janet E., Visiting Assistant In (Pediatrics), 1984 (Part Time)
B.A., Boston University, 1969

Stockwell, Heather G., Assistant Professor (Public Health), 1984
B.A.; M.A.; Sc.D., The Johns Hopkins University, 1983

Stokes, Sandra J., Visiting Assistant In Research (Adult and Vocational Education), 1986
B.S., M.S., Mercer University, 1985

Stokes, Trevor F., Professor-Program Director (Child and Family Studies, FHM), 1985
B.A.; M.A., Ph.D., University of Kansas, 1977

Stone, Douglas E., Professor (Measurement and Research Education), 1964
B.A., M.A., Ph.D., University of Chicago, 1962

Storr, Karl, Instructor (Mass Communications), 1973
Abitur, Deutsche Oberschule, Berlin, 1942

Story, Colleen M., Associate Professor (Counselor Education), 1965
B.S., M.S., Florida State University, 1951

Stoutinger, Susan M., Associate Professor (Interdisciplinary Social Science), 1969
B.A.; M.A.; Ph.D., Indiana University, 1970

Stowers, Dewey M., Jr., Professor (Geography), 1967
B.A.; M.A.; Ed.D., Duke University, 1961

Strange, James F., Dean-Professor (Arts and Letters), 1972
B.A.; M.D.; Ph.D., Drew University, 1970

Strange, Winfred, Associate Professor (Communicology), 1982
B.A.; Ph.D., University of Minnesota, 1972

Strampford, Jon V., Jr., Professor (Pathology), 1983
B.A.; M.S.; M.D.; Ph.D., State University of Iowa, 1958

Street, Marian S., Student Affairs Coordinator (Counseling & Career Development), 1984
B.A.; M.A.; Ph.D., University of Florida, 1980

Strenklein, Dense D., Data Base Coordinator (University Computing Services), 1970
B.A., M.A., University of South Florida, 1969

Strom, Diana L., Instructor/Librarian (University Librarians), 1985
B.A.; M.A.; M.A.L.S., University of South Florida, 1984

Strom, Richard N., Associate Professor (Geology), 1977
B.S.; M.S., Ph.D., University of Delaware, 1975

Strong, Paschal N., Professor-Program Director (Psychology), 1966
A.B.; Ph.D., University of Tennessee, 1955

Struke, Anne M., Athletic Head Coach (Intercollegiate Athletics), 1983
B.S.; M.S., George Washington College, 1978

Suarez, Dawn M., Research Assistant In (Diabetes Center), 1985
B.A., M.P.H., University of South Florida, 1985

Subkis, Edward, Director, Radio Stations (Educational Resources), 1986 Ft. Myers Campus
B.S.; M.A., Ohio State University, 1975

Sumaker, Averell V., Associate Professor (Music), 1973 (Part Time)
B.A.; M.M., D.Mus., Indiana University, 1979

Summer, Robert J. III, Professor (Music Arts), 1973
B.S.; M.M., D.Mus., Indiana University, 1978

Summers, Linda S., Student Affairs Coordinator (Administrative Services), 1984 Ft. Myers Campus
B.A., University of South Florida, 1981

Sundaram, Swaminatha, Professor-Chairperson (Physics), 1982
B.Sc.; M.S.; Ph.D., D.Sc., Annamalai University, India, 1980

Sundel, Arthur K., Associate Professor (Chemical Engineering), 1982
B.S.; M.E., Ph.D., Virginia Polytechnic Institute and State University, 1982

Suprenant, Bruce A., Assistant Professor (Civil Engineering), 1986
B.S.; M.S.; Ph.D., Montana State University, 1984

Swanson, James M., Associate Professor-Chairperson (History), 1964
B.A.; M.A.; Ph.D., Indiana University, 1968

Swartzman, Joyce B., Assistant Professor-Program Director (SCATT Education), 1981
B.S.; M.A., M.S., Ed.D., Teachers College Columbia University, 1981

Sweeney, Michael S., Assistant Professor (Surgery), 1985
B.S.; M.D., Baylor College of Medicine, 1976

Sweeney, Virginia, Assistant Director/Instructor (Sponsored Research), 1965

Sweeving, James Jr., Program Director (Educational Leadership and Higher Education), 1984
B.A.; M.S.; M.E.A., Pennsylvania State University, 1973

Sweged, Donald B., Director (Medical Center Development), 1980
B.A.; M.A.; Ed.D., Pennsylvania State University, 1957

Swierczek, Fredric W., Associate Professor (Public Administration), 1977
B.A.; Ph.D., University of Pittsburgh, 1978

Swhart, Stewart L., Associate Dean-Professor (Biology), 1970
B.A.; M.S., Ph.D., Lehigh University, 1964

Stenstrum, Anders, Professor (Pharmacology & Therapeutics), 1970
M.D., University Medical School, Debrecen, Hungary, 1950

Stentz, Judith S., Associate Professor (Comprehensive Medicine), 1985 (Part Time)
B.A.; M.S., Iowa University, 1974

Tackett, Cynthia J., Counselor to Students (University Housing, Student Affairs), 1985
B.A.; M.Ed., Eastern Kentucky University, 1979

Tallis, Joan E., Area Administrator (Housing and Auxiliary Services, Student Affairs), 1963
B.S.; M.S.Ed., Syracuse University, 1963

Tampa, Raymond V., Counselor/Adviser (Academic Services, Undergraduate Studies), 1979
B.A.; M.S., Nova University, 1978

Tandon, Helene M., Assistant Professor (Radiology), 1980
B.A.; M.D., University of Texas Medical School, 1967

Taren, Douglas, Assistant Professor (Public Health), 1986
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Tatum, Jim C., Associate Professor (Languages), 1963
B.A.; M.A., Ph.D., Tulane University, 1968

Taylor, John R., Systems Coordinator (University Computing Services), 1983
B.B.A., University of West Florida, 1974

Taylor, Judy H., Visiting Assistant In (Pediatrics), 1984
B.B.A., University of Tampa, 1984

Taylor, Nancy H., Academic Administrator (Graduate School), 1974
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Taylor, Phyllis M., University Librarian (University Libraries), 1980
B.A.; M.S.L.S., Atlanta University School of Library and Information Studies, 1974

Taylor, Richard N., Associate Professor-Program Director (Philosophy), 1969
B.A.; B.D.; M.Phil., Yale University, 1969

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Tedesco, Thomas A., Associate Professor (Pediatrics), 1974
B.S.; Ph.D., University of Pennsylvania, 1969

Tempte, Knute P., Lecturer (Information Systems Decision Science), 1985
B.S.; M.S., United States Naval Postgraduate School, 1962

Territo, Leonard, Professor (Criminal Justice), 1978
B.A., M.A.; Ed.D., Nova University, 1973

Terry, Anna M., Visiting Instructor (Psychiatry and Behavioral Medicine), 1986
B.A., M.A., University of South Florida, 1972

Testrake, Diane T., Associate Professor (Biology), 1967
B.S.; M.A., Ph.D., Duke University, 1963

Thieleker, Ernest A., Associate Professor (Mathematics), 1970
B.S.; M.S.; Ph.D., University of Chicago, 1968

Thomas, Christopher R., Assistant Professor (Economics), 1982
B.S., Ph.D., Texas A&M University, 1980
THOMAS, Delbert C., Systems Coordinator (University Computing Services), 1968
B.S.; M.B.A., Rollins College, 1967
THOMAS, Shirley M., Institutional Research Coordinator (Institutional Research), 1969
B.S.Ed., State University of New York, Brockport, 1951
THOMPSON, J. Kevin, Assistant Professor (Psychology), 1985
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THORNBER, Patricia L., Department Head-University Librarian (University Libraries), 1979
B.S.; M.L.S., George Peabody College for Teachers, 1973
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TILLMAN, James S., Associate University Librarian (Medical Center Library), 1972
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TILLOTSON, Kenyon F., Coordinator (Undergraduate Studies, Academic Services), 1985
B.A., M.A., University of Missouri, 1979
TIPPS, G. Kelly, Assistant Professor (History), 1969
B.A., M.A.; Ph.D., University of Colorado, 1971
TITTLE, Mary, Instructor (Nursing), 1983
B.S.N.; M.S.N., University of Florida, 1981
TOGUE, David Jr., Lecturer (Mass Communications), 1978
B.A.; M.A., University of South Florida, 1978
TOKUTA, Akira O., Assistant Professor (Computer Science and Engineering), 1985
B.S.E.E., M.S.E.E.; E.E.; Ph.D., University of Florida, 1984
TOMANO, Joseph M., Coordinator, Advancement/Alumni Affairs, 1967
B.A.; M.A., University of South Florida, 1971
TONEY, John F., Visiting Assistant Professor (Internal Medicine), 1986
B.S.; M.D., Marshall University, 1981
TORRES, Benjamin A., Visiting Assistant In (Pediatrics), 1986 (Part Time)
M.D., Universidad De San Carlos De Guatemala, 1982
TORRES, Joseph J., Associate Professor (Marine Science), 1980
B.S.; M.A., Ph.D., University of California at Santa Barbara, 1980
TOWERY, Gene M., Associate Professor (Reading Education), 1970 St. Petersburg Campus
B.S.; M.S., Ed.D, Florida State University, 1971
TOWERY, Helen H., Associate Professor (Marketing), 1970
B.S.; M.B.; D.B.A., Florida State University, 1969
TOWNSEND, Philip A., Assistant Professor (Obstetrics/Gynecology), 1984
M.B., Ch.B., Liverpool University, 1969
TREFFER, Jennifer K., Visiting Assistant In (SCATT Education), 1986
TREMLER, William C., Professor-Chairperson (Religious Studies), 1969
A.B.; Th.M., Th.D, Iliff School of Theology, 1950
TREICHEL, Elaine, Assistant Professor (Elective Physical Education), 1970
B.S.; M.S., University of Colorado, 1961
TRIVULKI, George C., Professor (Finance), 1984
B.S.; M.B.A.; Ph.D., University of Virginia, 1970
TRONCOSO, Ana N., University Physical Planning Consultant (Facilities Planning), 1980
B.S.; M.S., Universidad De La Habana School of Architecture, 1957
TROJOPH, Allan S., Associate Professor (Neurology), 1986
B.A.; M.D., Columbia University, 1960
TROUTMAN, Andrea M., Professor (Content Specializations Education), 1971
B.S.; M.A.; Ed.D, University of Florida, 1971
Trotti, Willis H., Professor-Chairperson (Philosophy), 1968
A.B.; A.M., Ph.D, Boston University, 1968

TROKOS, Chris P., Professor (Mathematics), 1972
B.S.; M.S.; Ph.D, University of Connecticut, 1968
TURBA, Gary N., Assistant Professor (Instructional Computing, Education), 1983
B.A.; M.A.; M.S., Texas A&M University, 1974
TUCKER, Pamela S., University Librarian (University Libraries), 1972
B.A.; M.LS., Emory University, 1972
TURNER, Rollins, Assistant Professor (Computer Science and Engineering), 1983
B.A.; M.S.E.; Ph.D, University of Massachusetts, 1982
TURNER, Stephen P., Professor (Sociology), 1975 St. Petersburg Campus
A.B., A.M., A.M., University of Missouri, 1975
TURSO, James A., Coordinator, Energy Management (Physical Plant Administration), 1986
B.E., State University of New York, Maritime College, 1984
TUTTLE, Lester W., Jr., Professor (Educational Leadership and Higher Education), 1964
TUWTILLER, Linda A., Coordinator, Advancement/Alumni Affairs, 1974
B.A., University of South Florida, 1971
TYSON, Ian B., Professor (Radiology), 1984
B.S., M.B.Ch.B., University of Edinburgh, Scotland, 1956
TYSON, Nancy J., Assistant Professor (English), 1984
B.A.; M.A., Ph.D, Ohio State University, 1981
URBING, Susan M., Coordinator, Advancement/Alumni Affairs, 1986
B.A., Ohio State University, 1974
UNANUE, Eduardo, Visiting Instructor (International Language Institute), 1986
B.A., M.A., California State University, 1973
UPCHURCH, SAM B., Professor-Chairperson (Geology), 1974
A.B.; M.S., Ph.D, Northwestern University, 1970
UPPER, A. Edward, Associate Dean-Professor (College Administration), 1968
B.A.; M.S., Ph.D, Syracuse University, 1969
URABVICH, Paul A., Director (University Safety and Security), 1973
B.S., M.S., Florida State University, 1970
VACHER, Henry L., Associate Professor (Geology), 1983
B.S.; M.S., Ph.D, Northwestern University, 1971
VANCE, Carol A., Instructor (Accounting), 1986
B.A., M.Acc., University of South Florida, 1983
VANCE, Phillip K., Counselor to Students (University Housing, Student Affairs), 1985
B.A., M.A., Western Kentucky University, 1984
VAN COTT, Mary Lou, Instructor (Nursing), 1981
B.S., M.S., University of South Florida, 1981
VANDERFORD, Marsha V., Assistant Professor (Communication), 1981
A.B.; M.A., Ph.D, University of Minnesota, 1982
VAN DURMEN, Alice C., Continuing Education Coordinator (Weekend College), 1982
B.A.; M.A., Ph.D, University of South Florida, 1975
VAN NESTE, Roy J., Assistant Professor (History), 1971
B.A.; M.A., Ph.D, University of Wisconsin, 1972
VAN VLEET, Edward S., Associate Professor (Marine Science), 1979
St. Petersburg Campus
B.S.; B.A.; M.S., University of Rhode Island, 1978
VAN VOORENS, Kenneth R., Professor (Management), 1970
B.S., M.B.A., D.B.A., Louisiana State University, 1971
VANDEN, Harry E., Associate Professor (Political Science), 1975
VARENYA, Murilo R., Professor (Computer Science Engineering), 1980
B.S.; M.S.; D.M.I.T.; M.S., Ph.D, University of Maryland, 1973
VARGO, Gabriell A., Associate Professor (Marine Science), 1979 St. Petersburg Campus
B.S.; M.S., Ph.D, University of Rhode Island, 1976
VARGO, Sandra L., Coordinator (Florida Institute of Oceanography), 1980 St. Petersburg Campus
B.S.; M.S., Ph.D, University of Rhode Island, 1974
VARTAN, FRANK B., Associate Professor (Internal Medicine), 1977
B.A.; B.S.; M.D., University of Pennsylvania, 1968
VASTINE, James P., Assistant Department Head/University Librarian (University Libraries), 1970
B.A.; M.L.S., Florida State University, 1965
WARD, John, Visiting Instructor (Economics), 1985

B.A., University of Rochester, 1972

M.D., Tulane University School of Medicine, 1965

VERMEES, Michael, Professor (Radiology), 1985

M.D., University of Vienna, 1958

VETTER, Harold J., Professor-Chairperson (Criminal Justice), 1974

B.A., A.M., Ph.D., State University of New York at Buffalo, 1955

VICKERY, Ann C., Assistant Professor (Public Health), 1980

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Silver, James L., Professor Emeritus (History), 1969-1979
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<td>WURSTER, MARGUERITE S.</td>
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