under special and unusual circumstances.

**THE 4595 HONORS THESIS** (1-3)
PR: THE 4594. A thesis project approved by the department honors committee and directed by the faculty member assigned by that committee.

**THE 4900 DIRECTED READING** (1-4)
PR: CI and CC. Readings in a topic of special interest to the student. Selection of topic and materials must be agreed upon and appropriate credit must be assigned prior to registration. A contract with all necessary signatures is required for registration. May be repeated for credit for different topics only.

**THE 4905 DIRECTED STUDIES** (1-4)
PR: CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

**THE 4927 ADVANCED PERFORMANCE** (1)
PR: THE 3925 or CI. The study, rehearsal and performance of major theatrical works. Admission by audition. THE 3925 or this course required of all majors and minors. May be repeated. Additional credit may be earned with THE 4905 or THE 5909.

**THE 4930 SELECTED TOPICS IN THEATRE** (1-6)
PR: CI. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

**THE 5909 DIRECTED STUDIES** (1-6)
PR: CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

**THE 5911 SELECTED TOPICS IN THEATRE** (1-6)
PR: CI. The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

**TPA 2220 THEATRE CRAFTS: STAGECRAFT** (3)
Required of all theatre majors. Open to non-majors. The basic materials, equipment, and skills used in scenic construction and painting for theatrical productions. An introductory course with lab.

**TPA 2223 THEATRE CRAFTS: LIGHTING** (3)
Required of all design majors. This course or TPA 2232 THEATRE CRAFTS: COSTUME required of all theatre majors. Open to non-majors. The basic equipment and skills used in lighting stage productions. An introductory course with lab.

**TPA 2232 THEATRE CRAFTS: COSTUME** (3)
Required of all design majors. This course or TPA 2223 THEATRE CRAFTS: LIGHTING required of all theatre majors. Open to non-majors. The basic materials, equipment, and skills used in costume construction for the stage. An introductory course with lab.

**TPA 3086 MEANS OF VISUAL EXPRESSION** (3)
PR: Completion of the four required 2000 level courses. The study of presentational techniques for visual design and technology as applied to the development of visual dynamics. Required of all theatre majors. Open to non-majors. The basic materials, equipment, and skills used in costume construction for the stage. An introductory course with lab.

**TPA 3221 LIGHTING: THEORY AND PRACTICE** (3)
PR: TPA 2223. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experiences with computer lighting systems. A requirement in the design track/lighting.

**TPA 3250 WORKSHOP IN STAGE MAKEUP** (1)
Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

**TPA 3250 SOUND FOR THE STAGE** (3)
PR: TPA2223. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects. Open to non-majors. Lecture and Laboratory.

**TPA 3601 STAGE MANAGEMENT** (2)
PR: TPA 2200, TPA 2223, or TPA 2232. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations. Open to non-majors with CI.

**TPA 3810 INTRODUCTION TO PUPPETRY** (3)
PR: Completion of the four required 2000 level courses. Principles and methods of puppetry with a historical survey of major forms and practical problems with laboratory production. Open to nonmajors with CI.

**TPA 3840 PUPPETRY PERFORMANCE AND PRODUCTION** (4)
PR: TPA3810. The creation, building, rehearsal, and performance of plays for puppet theatre. May be repeated one time for additional elective credit, with CI, to total of 8 hours. Open to non-majors with CI.

**TPA 4012 PROJECT DESIGN: HONORS** (3)
PR: One of TPA 4020, TPA 4040, TPA 4060 and portfolio review. A workshop for students in scenery, lighting, and costume design admitted only by recommendation of instructor and review of portfolio. Consideration will be given to integrating the design for setting, costumes, and lights; under special circumstances credit may be given for actualized production design.

**TPA 4020 LIGHT DESIGN** (4)
PR: ART 3301C, TPA 3221, TPA 4211 and portfolio review. The aesthetic and practical application of the elements of design in lighting for theatre presentation. A requirement in the design track/lighting.

**TPA 4040 COSTUME DESIGN** (4)
PR: ART 3301C, THE 4264, TPA 2232 and portfolio review. The aesthetic and practical application of the elements of design in costume for theatre presentation. A requirement in the design track/costume.

**TPA 4060 SCENE DESIGN** (4)
PR: TPA 4211, THE 4266, ART 3301C and portfolio review. The aesthetic and practical application of the elements of design in scenery for theatre presentation. A requirement in the design track/scenic.

**TPA 4081 SCENE PAINTING** (2)
PR: TPA 3086. A practical course in the painting of stage scenery and media and application. Open to non-majors with CI.

**TPA 4211 STAGECRAFT AND DRAFTING** (3)
PR: TPA 3086. A practical course in drafting for the stage, scenic construction and application. A requirement in the design/scenic and lighting.

**TPA 4221 COSTUME CONSTRUCTION** (3)
PR: TPA 3086, TPA 2232 or CI. A practical course in the drafting of patterns for constructing the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, corsetry; both period and modern.

**TPA 4240 STAGE PROPERTIES: TECHNIQUES AND MATERIALS STUDIO** (2)
PR: TPA 3086. Demonstration and experience with materials used in construction of stage properties. Modeling of prototypes and basic constructing techniques. Organization of shop. Open to non-majors.

**TPA 4281 PRACTICUM IN TECHNICAL SUPERVISION** (3)
PR: Either TPA 4211 or TPA 4230. A study of the technical operation and organization for the theatre technologist in costume or in scenery / lighting. Advanced problems in technology and organization.

**TPA 4402 THEATRE MANAGEMENT WORKSHOP** (2)
PR: Completion of the first two years of the theatre program. The study of management relations for the theatre, including all fields of management from box office to publicity. Open to non-majors with CI.

**TPP 2110 VOICE-BODY:IMPROVISATION** (3)
Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

**TPP 3111 WORKSHOP FOR TEXT ANALYSIS** (3)
PR: Completion of the four required 2000 level theatre courses. The techniques of textual and script analysis related to the composition of performance. Required of all theatre majors. May be taken by nonmajors with TPP 2110 and CI.

**TPP 3121 IMPROVISATION I** (3)
PR: Completion of the four required 2000 level courses. An intensive study in improvisation as an enhancement of the actor's skills.
Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity. Open to non-majors with Cl.

TPP 3122 IMPROVISATION II  
PR: TPP 3121; audition. A concentrated study of advanced techniques in improvisational skills as applied to the use of scenario. Depending on ensemble capabilities, the course will culminate in a classroom improvisational presentation. Open to non-majors with PR.

TPP 3235 THEATRE FOR SPECIAL AUDIENCES  
PR: Completion of the four required 2000 level courses and/or Cl. The preparation and performance of a production for a special audience (ethnic, children, aged, institutionalized, etc.) With Cl, may be repeated one time as additional elective credit (total of 6 hours). Open to non-majors with Cl.

TPP 3500 BODY DISCIPLINES  
PR: Completion of four required 2000 level theatre courses. A laboratory course in various disciplines or systems in controlling and understanding the body’s motive powers, with focus on their use for the stage performer. Required of all theatre majors with a performance concentration. Open to upper-level non-majors with Cl. May be repeated for credit.

TPP 3510 SPECIAL SKILLS IN MOVEMENT  
PR: TPP 3500. Stage combat, circus and acrobatic techniques, and other special techniques of movement. Repeatable for credit. Open to non-majors with Cl.

TPP 3790L VOICE PREPARATION FOR THE ACTOR  
PR: Completion of the four required 2000 level theatre courses. A laboratory in voice production and corrective speech for the actor. Required of all theatre majors with a performance concentration. Open to upper-level non-majors with Cl. May be repeated for credit.

TPP 4140 STYLES OF ACTING  
PR: TPP 4150 and audition. Methodology and styles. Examination of the actor’s craft and skills needed to fulfill the demands of various theatre forms. Special attention will be paid to the history of acting styles. Required of all theatre majors with a performance concentration.

TPP 4150 SCENE STUDY I  
PR: TPP 3111 and audition. Basic scene study. Special problems in movement and speech to be integrated with character development, rehearsal techniques, and, performance composition. Required of all theatre majors with a performance concentration.

TPP 4152 SCENE STUDY II  
PR: TPP 4150 Advanced scene study. Required of all theatre majors with a performance concentration.

TPP 4180 ADVANCED SCENE STUDY  
PR: TPP 4152 and audition. The aesthetics of acting. The various theories of art. A studio course. Required of all theatre majors with a performance concentration.

TPP 4220 AUDITION WORKSHOP FOR THE ACTOR  
PR: TPP 4150 or Cl. Preparation for professional audition; discussion of professional objectives.

TPP 4230L LABORATORY WORKSHOP IN PERFORMANCE  
PR: TPP 3111 and/or Cl. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (for a total of 9 hours credit).

TPP 4250 MUSIC THEATRE WORKSHOP  
PR: TPP 3111 or Cl. Special problems in acting as applied to the musical theatre with emphasis on singing and dance.

TPP 4310, 4311 DIRECTING I, II  
PR: TPP 4150. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

TPP 4610 WRITING FOR THE THEATRE  
PR: Completion of the first two years as a theatre major or Cl. An elective in writing for the theatre, starting with explorations of theatre as a medium, exercise in theatre form and techniques and progressing to an advanced workshop in plays and other styles of theatre pieces. May be repeated for credit. Open to non-majors with Cl.

TPP 4920 SENIOR WORKSHOP FOR ACTORS  
PR: TPP 4180, TPP 3500, TPP 3790L. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.
COLLEGE OF NATURAL SCIENCES

BIOLOGY


CHEMISTRY


MATHEMATICS


ASTRONOMY

**AST2005 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.

**AST2006 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.

**AST2032C 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.

**AST3033 CONTEMPORARY THINKING IN ASTRONOMY (3)**

PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no Physics or Mathematics 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 3044C ARCHAEOASTRONOMY (3)**

PR: Jr. or Sr. Standing or CI. 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 3852 NAVIGATION (3)**

PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, navigation with minimal equipment, some spherical astronomy.

**AST 3930 SELECTED TOPICS IN ASTRONOMY (1-4)**

PR: CI. Course content will depend upon the interest of the faculty member and student demand. May be repeated up to 8 credit hours.

**AST 5506 INTRODUCTION TO CELESTIAL MECHANICS (3)**

PR: MAC 3313 and some knowledge of differential equations, or CI. 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 CI. Integrated coverage of special topics to suit needs of advanced students.
BIOLOGY

APB 1150 TOPICS IN HUMAN BIOLOGY (3)
Lectures and demonstrations of selected biological principles, usually taught by television. For non-majors only.

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 3110 MAN, MICROBE AND MOLECULE (3)

APB 5595 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. (Spring & Fall).

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. 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: CI 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 4933 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.-dis.

PCB 4023C CELL BIOLOGY (4)
PR: CHM 3211, CHM 3211L 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. Lec.-lab.

PCB 4043C PRINCIPLES OF ECOLOGY (3)
PR: 1 year major's Biology. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.-dis.

COLLEGE OF NATURAL SCIENCES

PCB 4064 EXPERIMENTAL GENETICS (3)
PR: PCB 3063. Experimental analysis of genetic systems, Lec.-lab.

PCB 4253 DEVELOPMENTAL BIOLOGY (3)
PR: PCB 4023. Topics in modern developmental biology to be covered in lecture and through 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.-dis.

PCB 5115C CYTOGENETICS (3)
PR: PCB 4023C. Survey of the structure and function of cytoplasmic and nuclear components of plant and animal cells. Lec.-lab.

PCB 5235C PRINCIPLES OF IMMUNOLOGY (3)
PR: PCB 4023 or PCB 3020C. Course will emphasize the biological principles involved in the vertebrate immune response. It will present the homeostatic, defense, and detrimental aspects of the immune system in terms of basic cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist.

PCB 5415 BEHAVIORAL ECOLOGY (3)
PR: ZOO 2010C, PCB 4043. An emphasis on the evolutionary mechanisms that influence an organism's behavioral responses to environmental events. The theoretical framework is presented and analyzed. Intended for majors.

PCB 5525C MOLECULAR GENETICS (3)
PR: PCB 3063. Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.

PCB 5615 EVOLUTIONARY GENETICS (3)
PR: PCB 3063. Examination of factors such as mutation, migration, natural selection, and genetic drift which modify the genetic structure of populations.

PCB 5835C NEUROPHYSIOLOGY (3)
PR: PCB 4023C. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.

ZOO 2010C FUNDAMENTALS OF ZOOLOGY (4)

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. (Summer).

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. (Spring semester, odd years).

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

BOT 4434C MYCOLOGY (3)
PR: BOT 2010C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab. (Summer).

BOT 4503 PLANT PHYSIOLOGY (4)
PR: PCB 4023C. Fundamental activities of plants; absorption, translocation, transpiration, metabolism, growth, and related phenomena. Lec.-lab. (Fall semester).
Microbiology

APB 4053C APPLIED AND ENVIRONMENTAL MICROBIOLOGY (4)
PR: MCB 3020C. A study of the applications of microbiology to industry, agriculture, medicine, and sanitary engineering. Lec.-lab.

APB 5575C MEDICAL MYCOLOGY (4)
PR: MCB 3020C. A survey of the yeasts, molds, and actinomycetes most likely to be encountered by the bacteriologists, with special emphasis on the forms pathogenic for man.

MCB 2013C INTRODUCTION TO MICROBIOLOGY (4)
PR: BSC 2010, CR: 1 year College Chemistry. Introduction to the Biology of microorganisms: structure, physiology, growth, host-parasite relationships, ecology, and applications of bacteria, viruses, algae, protozoa, and fungi. Fundamental microbiological techniques will be taught in the laboratory. (S/U only.)

MCB 3020C GENERAL MICROBIOLOGY (4)
PR: MCB 2013C, BSC 2010C 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 3030C ADVANCED GENERAL MICROBIOLOGY (3)
PR: MIC 2013C, 1 year of College Chemistry, CR: CHM 3210, and PCB 3063. A consideration of microbial nutrition, growth, physiology and genetics, as well as the activities of microbes in nature including host-parasite relationships. (S/U only.)

MCB 4115 DETERMINATIVE BACTERIOLOGY (5)
PR: MCB 3020C. 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 3020C, PCB 4023C. A study of physiological and metabolic phenomena pertinent to the growth, development, regulation, inhibition and death of microorganisms and to the chemical alterations they catalyze. Lec.-lab.

MCB 4404C MICROBIAL PHYSIOLOGY AND GENETICS (5)
PR: MCB 3010C, PCB 4023C, PCB 3063, and BCH 3300. A study of the physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. The course emphasizes the interdependence of physiological and genetic approaches to microbiology. Lec.-Lab. (S/U only.)

MCB 4486 EXPERIMENTAL MICROBIOLOGY (2)
PR: MCB 4505C and PCB 4233. This course is designed to develop practical laboratory skills and the concepts of experimental analysis in virology, and microbial genetics for microbiology students.

MCB 4505C VIROLOGY (3)
PR: MCB 3020C. 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 4934 SEMINAR IN MICROBIOLOGY (1-3)
PR: Senior or advanced junior standing. May be repeated. (S/U only.)

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 general aspects of 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 LIMNOCOLOGY (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 ECOLOGY (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 3525C PARASITOLOGY (4)
PR: CHM 2010C. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.-lab.

ZOO 5458C HERPETOLOGY (4)
PR: ZOO 3713C, CI and CC. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

ZOO 5475C ORNITHOLOGY (4)

ZOO 5485C MAMMALOLOGY (4)
PR: ZOO 3713C, CI and CC. The biology of mammals, including systematics, ecology, natural history, and geographical distribution. Lec.-lab.

ZOO 5555C MARINE ANIMAL ECOLOGY (4)
PR: PCB 4043C and ZOO 3203C. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.

ZOO 5926 SELECTED TOPICS IN ZOOLOGY (1-3)
PR: CI. Each topic is a program in directed study under supervision of a faculty member.

CHEMISTRY

BCH 3011 ORGANIC CHEMISTRY LABORATORY (1)
PR: BCH 3011L in conjunction with BCH 3011 or CHM 3011. Credit will be granted for only one of these courses.

BCH 3231 INTRODUCTORY BIOCHEMISTRY (3)
PR: CHM 3200 or BCH 3200. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

BCH 3233L BASIC BIOCHEMISTRY LABORATORY (2)
PR: BCH 3233. Practical work in determination and characterization of important biomolecules. Lec.-lab.

BCH 5065 BIOCHEMISTRY CORE COURSE (3)
PR: Either BCH 3211, BCH 3211L, and CHM 3400 or CHM 4410 or graduate standing. A one-semester course in biochemical principles and laboratory techniques for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

CHM 2020 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 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)
PR: CHM 2045. Two years of High School Algebra and one course in High School Chemistry is strongly recommended. Fundamental principles of chemistry; mass and energy relationships in 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 2053 SELECTED TOPICS IN CHEMISTRY (3)
Topics of interest to students relating to chemistry and other sciences.

CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY (4)

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 3210 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 3340 ELEMENTARY PHYSICAL CHEMISTRY I (3)
PR: CHM 2046, CHM 2046L, MAC 3231 or MAC 3311, PHY 2054, PHY 2054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.

CHM 3341 ELEMENTARY PHYSICAL CHEMISTRY II (3)
PR: CHM 3340. Reaction kinetics, enzyme kinetics, macromolecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.

CHM 3342C ELEMENTARY PHYSICAL CHEMISTRY LABORATORY (1)
PR: CHM 3120 and 3120L. CR: CHM 3340 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: One year of college chemistry; or senior standing, and Cl. 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 3211, 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 3312, and PHY 2054 or PHY 3049. Thermodynamics, the states of matter, solutions. Lec.

**CHM 4411 PHYSICAL CHEMISTRY II** (2)
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 3610 and CHM 4410 or Cl. An advanced theoretical treatment of inorganic compounds. Lec.

**CHM 4905 INDEPENDENT STUDY** (1-3)
PR: Cl. 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)

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

**CHM 4970 UNDERGRADUATE RESEARCH** (1-3)
PR: Cl. (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 5226 INTERMEDIATE ORGANIC CHEMISTRY II** (3)
PR: CHM 5225 or Cl. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.

**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, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.

**CHM 5521 PRINCIPLES OF INORGANIC CHEMISTRY** (3)
PR: CHM 4411 or Cl. Chemical forces, reactivity, periodicity, and lattice in inorganic chemistry; basic core course. Lec.

**CHM 5931 SELECTED TOPICS IN CHEMISTRY** (1-3)
PR: Cl. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

**CHS 4100C RADIOCHEMISTRY** (3)

**CHS 4200 INDUSTRIAL CHEMISTRY** (3)
PR: CHM 3211 or Cl. The general composition and properties of products in the petroleum, rubber, plastics, fiber, and detergent industries will be examined. Quality requirements imposed by product end use and new product development will be emphasized. (Sert I)

**CHS 4300 FUNDAMENTALS OF CLINICAL CHEMISTRY** (3)
PR: BCH 3033. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance. Clinical chemistry majors must take CHS 4301L concurrently. Lec.

**CHS 4301L CLINICAL LABORATORY** (2)
PR: BCH 3033 and Cl, CHM 3120C. Laboratory experience in some of the most important clinical determinations. CHS 4300 must be taken concurrently. Lec.-lab.

**CHS 4302 CLINICAL CHEMISTRY PRACTICE** (2-12)
PR: Cl. Laboratory practice in clinical chemistry laboratories in the Tampa Bay area. (S.U only)

**CHS 4310C INSTRUMENTAL ANALYSIS** (4)
PR: CHM 4412 or Cl. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

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**GEOLOGY**

**GLY 2010 (formerly GLY 2016) PHYSICAL GEOLOGY** (4)
Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms. Lec.-lab.

**GLY 2100 EARTH HISTORY** (4)
PR: A course in geology. Study of the physical and biological history of the earth including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments. Lec.-lab.

**GLY 2850 ENVIRONMENTAL GEOLOGY** (3)
A first course in geology emphasizing environmental aspects of the earth's crust, such as earthquakes, depletion of the earth's resources, water supply problems, and geologic land use and planning. No credit for geology majors.

**GLY 3006 GEOLOGY OF OUR NATION'S PARKS** (3)
Representative parks used to illustrate current concepts in geology. For the non-science student. No credit for geology majors.

**GLY 3400 STRUCTURAL GEOLOGY** (4)
PR: 12 hours of geology, MAC 2132 or equivalent or Cl. Study of the origin and development of structural features of the earth's crust. Applications of principles of geology, physics, and mathematics to understanding relationships of strata and interpreting structural features. Study of regional tectonics and major structural provinces. Lec.-lab.

**GLY 3610 PRINCIPLES OF INVERTEBRATE PALEONTOLOGY** (4)
PR: GLY 2100 or Cl. Emphasis on morphology and habits of fossil invertebrate groups as they evolved through geologic time. Comparisons with modern examples of similar organisms. Stratigraphic distribution of major groups. Lec.-lab.

**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 2100.)

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

**GLY 4210 MINERALOGY-PETROLOGY II** (5)
PR: GLY 4200 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 in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional, and marine sedimentary environments will be examined in light of their evolution in rocks.

GLY 4555 SEDIMENTOLOGY (4)
PR: GLY 4220, GLY 4550 or PR. Analysis of sedimentary rocks and sedimentary structures as related to their environments of deposition. Textural and mineralogical study of sediments and statistical applications to sediment analysis. Lec.-lab.-field trips.

GLY 4700 SURFICIAL GEOLOGY (4)
PR: Senior or advanced junior standing and VI Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab.

GLY 4730 MARINE GEOLOGY (3)
PR: 12 hours of geology or VI. General survey of the geology of the ocean floor from beaches to ocean trenches including sediments, processes, tectonics and history.

GLY 4750 FIELD METHODS (3)
PR: 12 hours of geology courses or Cl. Fundamentals of geology in the field; compass and plane table mapping, mapping on aerial photos, reconnaissance surveys, interpretation of geologic structure. Lec.-lab.-field trips.

GLY 4772 FIELD CAMP PART I-FIELD METHODS (3)
PR: VI. Senior standing. Linked with Field Camp II. Basic field methods; use of pocket transits, 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 4816 ECONOMIC MINERAL DEPOSITS (3)
PR: 16 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 VI. 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. (S.U. only)

GLY 4915 UNDERGRADUATE RESEARCH (1-3)
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S.U. 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. (S.U. 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 VI. 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 VI. Use and application of modern analytical methods including X-ray, atomic absorption, and other geochronological techniques. Interpretation and statistical analysis of data acquired. Lec.-lab.

GLY 5310 IGNEOUS AND METAMORPHIC PETROLOGY (4)
PR: GLY 4220. Systematic study of igneous and metamorphic rocks and complexes, including origin, composition, and classification. Use of the polarizing microscope for thin-section analysis will be emphasized, and other modern methods of study will be employed. Lec.-lab.

GLY 5450 PRINCIPLES OF APPLIED GEOPHYSICS (4)
PR: Senior or advanced junior standing, one year of Physics or Cl. Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to site investigation and mineral deposits. 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 Cl. 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 Cl. 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 VI. 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, Cl. 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 Cl. 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 Cl. Marine pollutant sources, reservoirs, transport processes, and dynamics. Topics include heavy metals, chlorinated hydrocarbons, radio activity, petroleum, pathogen, 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.

OCG 5050 GEOLOGICAL OCEANOGRAPHY (3)
PR: Graduate standing or Cl. An introduction to the physical, historical sedimentary, and structural geology of the ocean basins and their borders. Lec.-lab.
OGC 5455 MARINE ISO TOTE GEOCHEMISTRY (3)  
PR: Chemical Oceanography or CI. Study of stable and radioactive isotope variations in the marine environment and the use of these variations as elemental tracers and in determining ages and rates and paleoclimatic 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 5456C ICTHYOLOGY (4)  
PR: CI or senior or graduate status; BSC 2101C, BSC 2102, PCB 4674 (helpful), ZOO 3713C (helpful). The evolution systematics, and ecology of fishes. (Also listed under Zoology.)

MATHMATICS

CGS 3422 COMPUTER APPLICATIONS TO MATHEMATICS -6A (3)  
PR: MAC 3311 or MAC 3281. Corequisite: MAS 3103. Introduction to FORTRAN (WATFIV) with special emphasis on its applications to Mathematics.

COP 4210 MATHEMATICAL PROBLEM SOLVING USING PASCAL -6A (3)  
PR: MAS 3103, and the ability to program at least one other language. 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 (4)  
PR: MAC 3313 or MAC 3283 with a grade of "C" or better, MAS 4301 and MAS 3103 or CI. A theoretical treatment of differential and integral calculus of one and several variables. Emphasis on techniques of proof. Topics covered include: infinite series, the Riemann integral, multiple integrals, line and surface integrals, Stokes' theorem, and the implicit function.

MAA 4212 ADVANCED CALCULUS II -6A (4)  
PR: MAA 4211. Continuation of MAA 4211.

MAA 5306 REAL ANALYSIS I (3)  
PR: MAA 4212. Metric spaces, limits, continuity, differentiation, convergence, Riemann-Stieltjes Integration, Lebesgue measure and integration on the real line.

MAA 5307 REAL ANALYSIS II (3)  
PR: MAA 5306. Continuation of MAA 5306.

MAA 5405 APPLIED COMPLEX ANALYSIS (3)  
Complex numbers, analytic and harmonic functions. Series. Conformal mappings. (A survey course emphasizing techniques and applications.)

MAA 5403 TOPICS IN COMPLEX ANALYSIS (3)  
PR: MAA 5405. Univalent and Multivalent functions, entire functions, approximation theory in the plane.

MAC 2102 COLLEGE ALGEBRA -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. 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 2114 (formerly MAC 1114) COLLEGE TRIGONOMETRY -6A (2)  
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 2132 (formerly MAC 1132) COLLEGE ALGEBRA AND TRIGONOMETRY -6A (4)  
PR: Two 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 MAC 2132 for students with credit in MAC 2233 or MAC 2102.)

MAC 2233 ELEMENTARY CALCULUS I -6A (4)  
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 3281 or MAC 3311.)

MAC 2234 ELEMENTARY CALCULUS II -6A (4)  
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 (3)  
PR: MAC 2132 with a "C" or better or CC. Pass placement tests in algebra and trigonometry. Differentiation, limits, differentials, extrema, indefinite integral. (No credit for students with credit in MAC 2233 or MAC 3311.)

MAC 3282 ENGINEERING CALCULUS II -6A (3)  
PR: MAC 3281. Definite integral, trigonometric functions, log, exponential, applications. (No credit for students with credit in MAC 2234 or MAC 3312.)

MAC 3283 ENGINEERING CALCULUS III -6A (3)  
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 (4)  
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 (4)  
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 (4)  
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 3283.)

MAE 3100 DISCRETE MATHEMATICS -6A (3)  
PR: MAC 3281 or MAC 3311 or CI. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

MAD 4401 NUMERICAL ANALYSIS -6A (4)  
PR: MAA 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 (3)  
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 (3)  
PR: CC. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

MAE 5874 ABSTRACT ALGEBRA FOR TEACHERS (3)  
PR: MAS 3103 and MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and
## College of Natural Sciences

### MAE 5876 Mathematical Analysis for Teachers
- **PR:** MAC 3313 and bachelor's degree or CC. Advanced consideration of limits, continuity, derivatives, differentials. (No credit for Mathematics majors.)
- **Credit:** 3

### MAP 4302 Differential Equations - 6A
- **PR:** MAC 3313. First order linear and nonlinear differential equations, higher order linear equations, applications.
- **Credit:** 3

### MAP 5305 Mathematical Optimization Theory I
- **PR:** MAS 3103 and MAA 4211, or equivalent. Content: Unconstrained and linearly constrained extremum linear and non linear programming, application to matrices and quadratic forms, Lagrange multiplier rule for equality constraints.
- **Credit:** 3

### 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.
- **Credit:** 3

### 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-Bendixon Theory, Lyapunov functions, eigenfunction expansions.
- **Credit:** 3

### MAP 5345 Applied Partial Differential Equations
- **PR:** MAP 5407 and CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.
- **Credit:** 3

### MAP 5407 Methods of Applied Mathematics
- **PR:** MAP 4302. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.
- **Credit:** 3

### MAS 3103 Linear Algebra - 6A
- **PR:** MAC 3311, MAC 3281, or CI. Linear equations, matrices, real vector spaces, relationship between linear transformations and matrices, determinants, inner product spaces, eigenvalues and eigenvectors.
- **Credit:** 3

### MAS 4124 Numerical Linear Algebra - 6A
- **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.
- **Credit:** 3

### MAS 4156 Vector Analysis - 6A
- **PR:** MAC 3313 or MAC 3283 or CI. The algebra and calculus of vectors, line and surface integrals, Divergence Theorem, Stokes' Theorem, generalized coordinates, applications. (No credit for both MAA 4111 and MAS 4156.)
- **Credit:** 3

### MAS 4301 Elementary Abstract Algebra - 6A
- **PR:** MAC 3311, MAC 3281, or CI. An introduction to basic set theory: sets, functions, and relations. An introduction to the basic algebraic structures: groups, rings, and fields. Homomorphisms and isomorphisms. A rigorous treatment of the real and complex number systems.
- **Credit:** 3

### MAS 5107 Advanced Linear Algebra
- **PR:** MAS 3103, MAS 4301 (or MHF 3102) or CI. The study of finite dimensional vector spaces over arbitrary fields. Topics covered include dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary and self-adjoint operators and quadratic forms.
- **Credit:** 3

### MAS 5215 Number Theory
- **PR:** CC. Congruences, quadratic residues, selected topics.
- **Credit:** 3

### MAS 5311 Algebra I
- **PR:** MAC 3313, MAS 5107, MAS 4301. An introduction to group theory.
- **Credit:** 3

### MAS 5312 Algebra II
- **PR:** MAS 5311. An introduction to Galois theory.
- **Credit:** 3

### MAT 2930 Selected Topics in Mathematics
- **PR:** CI. The course content will depend on the interest of faculty members and student demand.
- **Credit:** 1-4

### MAT 4906 Independent Study - 6A
- **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.)
- **Credit:** 1-4

### MAT 4930 Selected Topics in Mathematics - 6A
- **PR:** CI. The course content will depend on the interest of faculty members and student demand.
- **Credit:** 1-4

### MAT 4937 Mathematics Majors Seminar - 6A
- **PR:** Admission to Mathematics Honors Program or CI. Directed discussions on a variety of topics of mathematical interest. May be repeated up to 6 credit hours. (S/U only.)
- **Credit:** 1-6

### MAT 4939 Mathematics Honors Seminar - 6A
- **PR:** Admission to Mathematics Honors Program. Course restricted to mathematics majors. (S/U only.)
- **Credit:** 3

### MAT 5932 Selected Topics
- **PR:** Senior or Junior Standing and CI. 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.
- **Credit:** 1-4

### MGF 2130 Modern Mathematics with Microcomputers - 6A
- **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 mathematical models.
- **Credit:** 3

### MGF 2202 Finite Mathematics - 6A
- **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.
- **Credit:** 3

### MGF 3102 Logic and Set Theory - 6A
- **PR:** MAC 3311 or MAC 3281, or consent of instructor. First half: An introduction to the Propositional and Predicate Calculi, concentrating on proofs. Second half: An introduction to naive set theory, up to cardinal numbers, concentrating on sets of numbers.
- **Credit:** 3

### MGF 5306 Elementary Mathematical Logic
- **PR:** CC. Truth tables, tautologies, quantifiers, rules of inference, informal proofs in mathematics.
- **Credit:** 3

### MGF 5404 History of Mathematics
- **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.
- **Credit:** 3

### MTG 4212 Geometry - 6A
- **PR:** MAC 3311. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.
- **Credit:** 3

### MTG 5316 Topology I
- **PR:** MAC 3313 and MHF 3102. Metric and topological spaces, continuity, homeomorphisms, connectedness, fundamental group, compact spaces, separation axioms, product spaces.
- **Credit:** 3

### MTG 5317 Topology II
- **PR:** MTG 5316. Continuation of MTG 5316.
- **Credit:** 3
STATA 3404 ELEMENTARY PROBABILITY -6A
Counting techniques, probability, expectation, probability distributions, the law of large numbers. (No credit for Mathematics majors. Credit for Department of Biology majors.)

STATA 4321 INTRODUCTION TO STATISTICS -6A

STATA 4442 INTRODUCTION TO PROBABILITY -6A
PR: MAC 3313, MAS 4301. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities including normal, gamma, x (Greek letter Chi), and Weibull, and transformations of random variables.

STATA 5166 COMPUTATIONAL STATISTICS I
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.

STATA 5206 STOCHASTIC PROCESSES

STATA 5326 MATHEMATICAL STATISTICS
PR: STA 5447. Sample distribution theory, point & interval estimation theory, and theory of hypothesis testing.

STATA 5446 PROBABILITY THEORY I
PR: MA 4212 or MAA 5506. Concepts of probability theory, axioms of probability, random variables, probability distributions and distributions of functions of stochastic variables.

STATA 5447 PROBABILITY THEORY II

STATA 5526 NON-PARAMETRIC STATISTICS
PR: STA 5326, CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions and their applications.

MEDICAL TECHNOLOGY
MLS 3031 INTRODUCTION TO MEDICAL TECHNOLOGY
PR: Senior standing and acceptance into an approved affiliated hospital. An introduction to the principles and practices of medical technology and their relationship to patient care. A hospital internship course for medical technology majors.

MLS 4216 CLINICAL MICROSCOPY II
PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MLS 4215. A hospital internship course for medical technology majors.

MLS 4309 HEMATOLOGY
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction in the methods of study of hematological disorders. A hospital internship course for medical technology majors.

MLS 4405 CLINICAL BACTERIOLOGY
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in lecture and laboratory on the various aspects of morphology, physiology, and classification of bacteria, especially those related to disease. A hospital internship course for medical technology majors.

MLS 4549 CLINICAL CHEMISTRY II
PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MLS 4625C, including procedures required for serology, transfusions, blood preservation, and antibody studies. A hospital internship course for medical technology majors.

MLS 4605C CLINICAL LABORATORY INSTRUMENTAL ANALYTICAL TECHNIQUES
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in the use of special laboratory instruments such as automated instruments, use of radioisotopes, and techniques of measuring basal metabolism. A hospital internship course for medical technology majors.

PHYSICS
PHZ 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY
PR: One year of non-calculus general physics. CR: MAC 3283 or MAC 3313. Designed for students who have not had the general physics sequence using calculus. Review of mechanics and electricity emphasizing problems which involve the use of calculus. Semesters: Fall, Spring.

PHZ 3102 PROBLEMS IN GENERAL PHYSICS I
CR: PHY 3048. 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, Summer.

PHZ 3103 PROBLEMS IN GENERAL PHYSICS II

PHZ 5115 METHODS OF THEORETICAL PHYSICS I
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.

PHZ 5116 METHODS OF THEORETICAL PHYSICS II
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.

PHZ 5304 NUCLEAR PHYSICS
PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics. Spring Semester.

PHZ 5311 SOLID STATE PHYSICS I
PR: PHY 3101, MAP 4302. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426. Spring Semester.

PHZ 5505 PLASMA PHYSICS
PR: PHY 4324C or CI. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation. Instabilities. Fall Semester.

PHY 2020 CONCEPTUAL PHYSICS
PR: PHY 4324C or CI. An introduction to the concepts of modern physics. Emphasizing the influence of modern physics on contemporary issues.

PHY 2038 ENERGY AND HUMANITY
Social, economic, and political aspects of energy, including energy conservation, energy alternatives, personal use of solar energy, and changing life styles. Field trips and audiovisual presentations play important roles.

PHY 3048 CLINICAL LABORATORY INSTRUMENTAL ANALYTICAL TECHNIQUES
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics or mathematics majors.) Semesters: Fall, Spring, Summer.
simultaneously. Semesters: Fall, Spring, Summer.
PHY 3049, 3049L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3282 or MAC 3312, PHY 3048, PHY 3048L. 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 3053, 3053L GENERAL PHYSICS AND LABORATORY (3, 1)
First semester of a two semester sequence of general physics (mechanics, heat, electricity, wave motion, optics) and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.
PHY 3064, 3064L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: PHY 3053, PHY 3053L. 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 3101 MODERN PHYSICS (3)
PHY 3221 MECHANICS I (3)
CR: MAC 3283 or MAC 3313 and either PR: PHY 3048 or PHY 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 3049, MAC 3283 or MAC 3313. Electromagnetic circuits; resistance, capacitance, inductance, direct and alternating current circuits, thermoelectricity, and instrumentation. Laboratory. First semester of sequence PHY 3323C, PHY 4324C.
PHY 3424 OPTICS (4)
PR: PHY 3101 or PHY 3049; CR: MAC 3283 or MAC 3313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory. Fall Semester.
PHY 3822L INTERMEDIATE LABORATORY (2)
PR: PHZ 3101 or PHY 3049 or equivalent. Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena. Fall Semester.
PHY 4222 MECHANICS II (3)
PR: PHY 3121; CR: MAP 4302. Continuation of PHY 3221. 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)
PR: PHY 3323C or CR: MAP 4302. Electrostatic fields, magnetic fields of steady currents, dielectrics and magnetic materials, Maxwell's equations. Second semester of sequence PHY 3323C, PHY 4324C. Fall Semester. Laboratory.
PHY 4471 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.
PHY 4523 STATISTICAL PHYSICS (3)
PHY 4604 QUANTUM MECHANICS I (3)
PR: PHY 3101 or CR. Postulates, Schrödinger's equation, one dimensional 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 CI. Direct and alternating current circuits, transients, rectification, amplification; feedback, pulse circuits, and integrated circuits, laboratory. (No credit for physics or mathematics majors.) Semesters: Fall, Spring.
NUR 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 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 3570 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.

NUR 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.

NUR 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: NUR3722C. 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 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, 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 3546 NURSING PROCESS II
PR: Permission of faculty. Development of the nursing process as it relates to normal and high risk childbearing families, maturing families with children, and families with complex health problems. Integrates pathophysiology, nutrition, pharmacology and essential psychomotor skills of all ages.

NUR 3546L 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 pathophysiology, nutrition, pharmacology and essential psychomotor skills of all ages.

NUR 3536L NURSING INTERVENTION III
PR: Permission of faculty. Clinical nursing practice course linked to Nursing Process III. Focuses on meeting the mental health psychiatric nursing needs of clients of all ages. Includes pathophysiology, nutrition, pharmacology, essential psychomotor skills and community aspects.

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

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

NUR 3654 NURSING CONCEPTS IN SECONDARY CARE
PR: RN Student; CI. 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 NURSING PRACTICUM I
PR: RN student; CI. 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 care givers 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 care givers 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 health care delivery systems and on nursing research.

NUR 4256 NURSING PROCESS V
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
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
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 V
PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process VI, VII, VIII) with clients of all ages arising from interferences in metabolic and regulatory functions, oxygenation, mobility and sensory perception. Skills and community health aspects.

NUR 4258 NURSING PROCESS VII
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, psychomotor skills, psychological and community health aspects.

NUR 4265 NURSING PROCESS VIII
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 health aspects.

NUR 4265C NURSING PROCESS IV
PR: Permission of faculty. Introduces knowledge and skills essential to the well elderly in primary care settings. Included are theories, bio-psychosocial assessment, development of therapeutic relationships, nutritional, psychosocial, and socio-economic factors affecting the health and care of the elderly.

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

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

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

NUR 4837 NURSING CORE V
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
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
PR: Junior or senior standing or permission of faculty. May involve class, seminar, and/or clinical laboratory and may be repeated for different topics.

NUR 4938 HONORS SEMINAR
PR: Acceptance into the honors program in nursing and Cl. The Honors Seminar is designed to provide selected students with an opportunity to explore major works of nursing in-depth and to present, discuss, and defend a proposal for a research project.

NUR 4943L NURSING PRACTICUM III
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.

NUR 4946L PRECEPTORSHIP
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.

NUR 4975 HONORS THESIS
PR: Honors Seminar and Cl. The student under the supervision of a faculty advisor will formalize, conduct, analyze and report in writing and orally a research project in nursing. May be repeated up to 2 credit hours. (S/U only.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSC 2100</td>
<td>CONTEMPORARY HEALTH SCIENCE</td>
<td>(3)</td>
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<tr>
<td></td>
<td>A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.</td>
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<tr>
<td>HSC 4203</td>
<td>INTRODUCTION TO PUBLIC HEALTH</td>
<td>(3)</td>
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<td></td>
<td>A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.</td>
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<tr>
<td>HSC 4223</td>
<td>PREVENTIVE HEALTH PRACTICES IN THE WORKPLACE</td>
<td>(3)</td>
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<td></td>
<td>PR: Cl. The content of this course focuses on a survey of health problems and concerns as they exist in a variety of work environments. No prior education or experience in this area is required.</td>
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<tr>
<td>HSC 4541</td>
<td>HUMAN STRUCTURE AND FUNCTION</td>
<td>(4)</td>
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<td></td>
<td>PR: Fundamentals of biology/lab, admission to the program or Cl. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught. Lab included.</td>
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<tr>
<td>HSC 4554</td>
<td>SURVEY OF HUMAN DISEASES</td>
<td>(3)</td>
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<td></td>
<td>PR: Nature, types and mechanisms of human diseases: biological injury due to physical, chemical, biological agents; genetic, metabolic, immunological disorders; neoplasms and infectious diseases; malfunctions of major organ systems.</td>
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<tr>
<td>HSC 5319</td>
<td>HEALTH PROBLEMS OF SCHOOL AGE POPULATION</td>
<td>(3)</td>
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<tr>
<td></td>
<td>A study of health problems and needs of school age students, including a health status screening laboratory.</td>
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AFRICAN AND AFRO-AMERICAN STUDIES
Director: F. U. Ohaegbulam; Professor: F. U. Ohaegbulam; Associate Professors: Nola A. Allen, K. R. Glover, J.C. Renick; Other Faculty: P. Taylor.

ANTHROPOLOGY

COMMUNICATION SCIENCES AND DISORDERS

CRIMINOLOGY

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

GERONTOLOGY

HISTORY

HUMAN SERVICES
Coordinator: T. A. Rich; Professors: J. I. Kosberg, T. J. Northcutt, Jr., S. V. Saxon; Associate Professors: J. L. Garcia, A. S. Gilmore, W. P. Mangum; Visiting Faculty: Professor: W. Vasey; Other Faculty: B. Burton, J. A. Giordano.

INTERDISCIPLINARY SOCIAL SCIENCES

INTERNATIONAL STUDIES

OFF-CAMPUS TERM
Director: D. K. Lupton

POLITICAL SCIENCE

PSYCHOLOGY

PUBLIC ADMINISTRATION
Director: J. C. Renick; Professors: J. E. Reisat, A. A. MacManus, D. C. Menzel; Associate Professors: J. C. Renick, F. W. Swierzek; Assistant Professor: J. L. Daly; Visiting Assistant Professor: C. J. Spindler.

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

SOCIAL WORK
Chairperson: B. L. Yegidis; Professor: T. J. Northcutt, Jr.; Associate Professors: J. A. Giordano, T. U. Hancock, W. S. Hutchison, Jr.; A. A. Smith, P. L. Smith, R. J. Wilk, B. L. Yegidis; Assistant Professors: E. B. Breit, C. S. Roberts, K. Sohn; Visiting Faculty: W. Vasey; Courtesy Faculty: Professor: J. I. Kosberg; Associate Professors: D. Boone, A. J. Floyd; Assistant Professors: M. L. Coulter, P. A. d'Orazio, A. E. Thomas; Instructor: L. Middleton.

SOCIOLOGY
AFRICAN AND AFRO-AMERICAN STUDIES

AFA 2001 INTRODUCTION TO THE BLACK EXPERIENCE [IN AFRICA AND ITS DIAPORSA] -6A  
Fundamental perspectives on the nature and significance of the Black Experience in Africa and the black communities in the Americas.

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 listed under International Studies.)

AFA 4331 SOCIAL INSTITUTIONS AND THE GHETTO  
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  
PR: WST 2010 or 2011, or AFA 2001, or Ct. 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  
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  
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  
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 listed under History.)

AFH 3200 AFRICAN HISTORY SINCE 1850  
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.)

AFS 3311 THE AFRICAN DIASPORA AND PAN-AFRICANISM  
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  
A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America (AMH 3571, 1943-1865; AMH 3572 1865-to present.)

CPO 4204 GOVERNMENT AND POLITICS OF AFRICA  
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  
In depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority rule in Southern Africa.

ECP 4143 BLACK AMERICANS IN THE AMERICAN ECONOMIC PROCESS  
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 4200 ARTS AND MUSIC OF THE AFRICAN PEOPLE  
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 4254 AFRICA IN WORLD POLITICS  
Study of international relations in the new Africa including the relations of the new states with major world powers and their role in the United Nations.

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

PUP 3313 BLACKS IN AMERICAN POLITICAL PROCESS  
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.

ANTHROPOLOGY

ANT 1001 THE HUMAN ADVENTURE  
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  
The crosscultural 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 crosscultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).

ANT 3008 THE ANTHROPOLOGICAL PERSPECTIVE  
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  
PR: ANT 2000 or Ct. The crosscultural study of humankind from its beginnings up to and including the historic period through the recovery, description, and analysis of the remains of past cultures and societies.

ANT 3410 CULTURAL ANTHROPOLOGY  
PR: ANT 2000 or Ct. Discussion of major methods of and orientations to the crosscultural 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  
PR: ANT 2000 or Ct. 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  
PR: ANT 2000 or Ct. 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  
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 - 6A (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, Mochica, 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, Olmek, 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 - 6A (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 classwork.

ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (4)
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 4226 ANTHROPOLOGY OF ART - 6A (3)
PR: ANT 3410 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 - 6A (3)
PR: ANT 3410 or Cl. Focuses on crosscultural 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 - 6A (3)
PR: ANT 3410 or Cl. The crosscultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and the symbols of belief will be considered in light of their impact on the social, political or economic aspects of peoples' lives.
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 4522 CULTURE AND HUMAN EVOLUTION (3) PR: ANT 3511 or CI. 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 (3) PR: ANT 3511 or CI. 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 (3) PR: ANT 3511 or CI. 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 (3) PR: ANT 3511 or CI. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.

ANT 4620 LANGUAGE AND CULTURE - 6A (3) PR: ANT 3610 or CI. Examines the relationships between language and culture in contextual 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 (3) PR: ANT 3410 or CI. 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 4720 LANGUAGE AND SOCIAL INTERACTION - 6A (3) PR: ANT 3610 or CI. 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 (1-4) PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 4907 INDIVIDUAL RESEARCH (2-4) PR: CI. Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY (3) PR: CI. Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored. May be repeated as topics vary.

ANT 4932 HONORS SEMINAR (4) PR: Admission to the honors program in anthropology. Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.

ANT 4935 RETHINKING ANTHROPOLOGY - 6A (3) 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 4970 HONORS THESIS (3) PR: Admission to the honors program, completion of the honors seminar and CI. The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology. (S/U only.)

ANT 5904 DIRECTED READING (1-4) PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 5915 INDIVIDUAL RESEARCH (2-4) PR: CI. Individual guidance in a selected research project. Contract required prior to registration.

ANT 5937 SEMINAR IN ANTHROPOLOGY (2-4) PR: Graduate standing. Topics to be chosen by students and instructor.

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

COMMUNICATION SCIENCES AND DISORDERS

SPA 3002 INTRODUCTION TO DISORDERS OF SPEECH AND LANGUAGE (3) The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

SPA 3011 INTRODUCTION TO SPEECH SCIENCE (3) 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 3030 INTRODUCTION TO DISORDERS OF HEARING (3) PR: SPA 3110. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.


SPA 3110 INTRODUCTION TO HEARING SCIENCE (3) PR: CI. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

SPA 3112 APPLIED PHONETICS IN COMMUNICATION DISORDERS (3) PR: CI. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

SPA 3380 BASIC AMERICAN SIGN LANGUAGE (3) 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 3380L) to be taken concurrently. Open to all majors.

SPA 3380L BASIC AMERICAN SIGN LANGUAGE LABORATORY (1) PR: CI. A basic laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes. To be taken concurrently with Basic American Sign Language (SPA 3380).

SPA 4000 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS (3) PR: CI. 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 4050 INTRODUCTION TO THE CLINICAL PROCESS (2) Observation and participation in speech-language pathology and audiology practicum in the University clinical laboratory.
SPA 4140 COUNSELING OF COMMUNICATIONALLY HANDICAPPED AND FAMILY
PR: CL Discussion of the role of counseling in the treatment of communication disorders. This course demonstrates application of therapy to those with communication deficits.

SPA 4201 PHONOLOGICAL DEVELOPMENT AND DISORDERS
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 4210 VOCAL DISORDERS
PR: CL A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 4222 FLUENCY DISORDERS
PR: CL A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

SPA 4331 FUNDAMENTALS OF FINGERSPELLING
PR: CL A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

SPA 4332 STRUCTURE OF SIGN LANGUAGE
PR: CL The semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.

SPA 4337 SIGN LANGUAGE CODES
PR: CL A review of the sign systems (SEE I, SEE II, L.O.V.E., and Signed English) used to code messages through the use of signs. The student will have the opportunity to practice one of the sign systems.

SPA 4383 NATURE AND NEEDS OF HEARING IMPAIRED
PR: CL 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 4382 INTERMEDIATE AMERICAN SIGN LANGUAGE
PR: SPA 3380 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 4382L) to be taken concurrently.

SPA 4382L INTERMEDIATE AMERICAN SIGN LANGUAGE LABORATORY
PR: CL An intermediate laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes. To be taken concurrently with Intermediate American Sign Language (SPA 4382).

SPA 4383 ADVANCED AMERICAN SIGN LANGUAGE
PR: SPA 4382 and CL A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. A one hour laboratory course (SPA 4383L) is to be taken concurrently. Open to all majors.

SPA 4383L ADVANCED AMERICAN SIGN LANGUAGE LABORATORY
PR: CL An advanced laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes. To be taken concurrently with Advanced American Sign Language (SPA 4383).

SPA 4930 SELECTED TOPICS
PR: CL Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member. May be repeated for a total of 9 credit hours.

SPA 5132 AUDIOLOGY INSTRUMENTATION
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
PR: SPA 3011 or equivalent. Must be taken with SPA 5150L: Speech Science Laboratory. Advanced study of the acoustics, production and perception of normal and disordered speech.

SPA 5150L SPEECH SCIENCE LABORATORY
PR: SPA 3011 or equivalent. Must be taken with SPA 5150 Advanced Speech Science Laboratory. Provides exercises in the use of audio recording, acoustic analysis and synthesis instrumentation.

SPA 5303 AUDIOLOGY: HEARING SCIENCE
PR: CL 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
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 nonspeech stimuli and those which utilize speech stimuli will be included.

SPA 5402 COMMUNICATION DISORDERS: LANGUAGE
PR: CL Examination of research and clinical literature presenting major theoretical orientations pertaining to the etiology, evaluations, and treatment of those factors that hinder or interrupt normal language acquisition or function.

SPA 5552 EVALUATION OF ORAL COMMUNICATION DISORDERS
PR: Admittance to the Program or CL. The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

SPA 5557 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY PRACTICUM
PR: CL Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

**CRIMINOLOGY**

CCJ 3003 CRIME AND JUSTICE IN AMERICA
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
PR: PSY 2012, SOC 2000, or equivalent, or CL. 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
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 3280 THEORIES OF CRIMINAL BEHAVIOR
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
PR: CCJ 3020. 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 offense, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

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

CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS
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 Cl. 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 Cl. Introduces the student to theories and methods underlying treatment modalities currently employed in corrections.

CCJ 4360 AMERICAN CORRECTIONAL SYSTEMS (3)
PR: Junior standing plus CCJ 3620 or Cl. 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 is on law enforcement and correctional agencies.

CCJ 4501 JUVENILE JUSTICE SYSTEM (3)
PR: CCJ 3020 or Cl. 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 Cl. 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 Cl. 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 3222, GEB 3121, or STA 3023.

CJT 4820 PRIVATE SECURITY SYSTEMS (3)
PR: Junior standing plus CCJ 4110 or Cl. 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: Cl. 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, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major.

*CCJ 4910 DIRECTED RESEARCH (1-3)
PR: Cl. 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 five hours of CCJ 4910, CCJ 4900 or any combination of the two 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 taking 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 Cl. This variable topic seminar will consider 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 (3)
PR: Senior 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 experience 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

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

GEA 3099 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)
GEA 3300 GEOGRAPHY OF MIDDLE AMERICA (4)
GEA 3400 GEOGRAPHY OF LATIN AMERICA (4)
GEA 3500 GEOGRAPHY OF EUROPE (4)
GEA 3554 GEOGRAPHY OF THE USSR (4)
GEA 3600 GEOGRAPHY OF AFRICA (4)
GEA 3703 GEOGRAPHY OF ASIA (4)

GEO 1930 GEOGRAPHY OF CURRENT EVENTS (4)
Application of basic geographic principles of the analysis of contemporary events in various parts of the world.

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

GEO 3014 SYSTEMATIC GEOGRAPHY (4)
PR: GEO 3013. Continuation of GEO 3013; soil, water, rocks, minerals, and landforms.

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

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

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

GEO 4040C MAP INTERPRETATION (4)
PR: GEO 3014. Analysis and synthesis of various types of maps and map projections.

GEO 4100C CARTOGRAPHY (4)
PR: GEO 3014. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)
PR: GEO 3014. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)
PR: GEO 3014. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photographic are also considered.

GEO 4164C QUANTITATIVE METHODS (4)
PR: GEO 3014. Statistical analysis in geographic research.

GEO 4201C PHYSICAL GEOGRAPHY (4)
PR: GEO 3014. Intensive study of a topic selected from physical geography.

GEO 4210 PHYSIOGRAPHY (4)
PR: GEO 3014. Origin, evolution, and distribution of the landforms
of North America.

GEO 4280C HYDROLOGY (4)
PR: GEO 3014. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 MAN AND NATURAL HAZARDS (4)
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 (4)
The distribution, exploitation, and conservation of physical and human resources, ecology.

GEO 4390 WATER RESOURCES (4)
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 4421 CULTURAL GEOGRAPHY (4)
PR: GEO 3014. The interrelationships of culture and nature, from pre-historic times to the present.

GEO 4440 POPULATION GEOGRAPHY (4)
An analysis of contemporary patterns in world and regional distributions of people and geographical factors underlying these patterns and their changes.

GEO 4460 HISTORICAL GEOGRAPHY (4)
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 4461 POLITICAL GEOGRAPHY (4)
PR: GEO 3014. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4502 ECONOMIC GEOGRAPHY (4)
PR: GEO 3014. The spatial organization of economic production, consumption, and exchange systems.

GEO 4530 GEOGRAPHY OF ENERGY (4)
The primary sources of energy, examined regionally and systematically; resource bases, production, and consumption. OPEC and environmental problems are considered.

GEO 4602 URBAN GEOGRAPHY (4)
PR: GEO 3014. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 4700 TRANSPORTATION GEOGRAPHY (4)
PR: GEO 3014. Interrelationships between freight and passenger transportation and land use, in terms of site, traffic generation, and circulation.

GEO 4900 DIRECTED READING (1-4)
PR: 20 hours in geography and CC prior to registration. May be repeated.

GEO 4910 INDIVIDUAL RESEARCH (1-4)
PR: 20 hours in geography and CC prior to registration. May be repeated.

GEO 5058 GEOGRAPHIC LITERATURE AND HISTORY (3)
PR: Senior or graduate standing in geography, or CI. 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 CI. 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.

MET 4010C METEOROLOGY (4)
PR: GEO 3013 or CI. The earth’s atmosphere and its processes; weather forecasting and analysis; instrumentation.

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.
GEO 5620 SOCIOLÓGICAS ASPECTOS DE LA EDAD DEL AMORTIGUAMIENTO (3)
PR: Cl. Examine, 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.

GEO 5630 ECONOMÍA Y EDAD DEL AMORTIGUAMIENTO (3)
PR: Cl. Examine basic economic systems as they impact the aged.
Emphasis is on applied aspects of economic planning, pensions,
insurance, social security, and other support systems.

GEO 5642 PERSPECTIVAS DE LA MUERTE Y EL DESEO DE MORIR (3)
PR: Cl. Study of the various psychological, medical, legal,
and religious problems caused by dying and death, and of how individu-
als and groups have responded in the past and present.

HISTORIA

APH 3100 INTRODUCCIÓN A LA HISTORIA AFRICANA (3)
An outline survey of pre-colonial African history including a prefa-
tory introduction to the use of primary sources (such as archaeol-
ogy, oral tradition, cultural anthropology, comparative linguistics,
documents) in reconstructing the African past. (Also offered under
Afro-American Studies.)

APH 3200 HISTORIA AFRICANA DESDE 1850 (3)
Survey of the Colonial and post-colonial history of Africa. Emphasis
on the impact of European and other alien influences on the continen-
t, emergence of independent African states, and postinde-
pendence problems of nation building and economic development.
(Also offered under Afro-American Studies.)

AMH 2010, 2020 HISTORIA AMERICANA I, II (3,3)
A history of the United States with attention given to relevant develop-
ments in the Western Hemisphere, AMH 2010: European origins to 1877;
AMH 2020: 1877 to present.

AMH 3110 HISTORIA COLONIAL AMERICANA DESDE 1750 (4)
A study of the evolution of American society from the Age of
Reconnaissance 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 LA ERA REVOLUCIONARIA AMERICANA (4)
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 loyalty, violence, and slavery in
American society from 1750-1789.

AMH 3140 LA EDAD DE JEFFERSON (4)
A comprehensive study of American society and political culture
from 1789-1828. Focuses on demographic trends, party systems,
expansionism, Indian policy, labor, and ethno-cultural conflicts.

AMH 3160 LA EDAD DE JACOB (4)
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 LA ERA CIVIL Y RECONSTRUCCIÓN (4)
An examination of political, social, and economic climate of the
1850's that led to the American Civil War. The course focuses upon
the war itself in its military, diplomatic, and political conse-
quences through the end of the Reconstruction (1877).

AMH 3201 LAS ESTADOS UNIDOS, 1877-1929 (4)
A study of America from the end of Reconstruction to the stock
market crash. Ranging over political, social, and diplomatic develop-
ments, the course covers industrialization, reform, imperialism,
feminism, race relations and World War I.

AMH 3252 LAS ESTADAS UNIDAS DESDE 1929 (4)
The United States from the Great Depression to the present. Cover-
ing political, social and diplomatic developments, examines the
New Deal, World War II, the Cold War, Viet Nam, civil rights,
feminism and Watergate.

AMH 3402 LA ERA DEL SUR ANTERIOR (4)
A study of the American South from its colonial origins to the fall of
the Confederacy in 1865. Emphasis on slavery and race, the South-
ern frontier, the development of sectional consciousness, and the
coming of the Civil War.

AMH 3403 LA ERA DESDE 1865 HASTA 1865 (4)
Southern history since the surrender at Appomattox. Topics covered
include Reconstruction, the Populist revolt, race relations, de-
moguería and disfranchisement, Southern women, and the Civil
Rights Movement.

AMH 3421 LA ERA DE FLORIDA (4)
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 LA ERA MODERNA DE FLORIDA (4)
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 LA ERA DE TAMPA (4)
Emphasizing 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 3500 LA EDAD DE LA RACIAL AMERICANIZACIÓN (4)
A study of American workers from the colonial period to the present.
Examines the changing nature of work, its effects of workers (inclu-
ding minorities and women), and their responses as expressed in
strikes, unions, and political action.

AMH 3511 LA ERA DE LA DIPLOMÁTICA HISTORIA DE LA ERA
(4)
A history of American Foreign Relations in the Industrial era.

AMH 3530 LA EDAD DE LA EMIGRACIÓN (4)
A study of the composition and character of the "American" people
with emphasis on the period from 1840s to the 1920s. Examines
old world backgrounds of immigrants and their responses to the new
world's social, economic and political conditions.

AMH 3540 LA EDAD DE LA ERA MILITAR DE LOS ESTADOS UNIDOS (4)
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 LA ERA DE GUERRA Y AMERICA EMPIRE (4)
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 LA ERA DE LA RACIAL AMERICANIZACIÓN DE LOS ESTADOS UNIDOS (4)
A study of women in the evolution of American society from Euro-
pean 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 LA ERA DE LA RACIAL AMERICANIZACIÓN DE LAS MUJERES (4)
A study of women in the evolution of American society from 1877 to
the present. Women's roles in the family, economy, politics, immi-
gration, wars, religion and reform movements will be examined.
(May also be taken for credit in Women's Studies.)

AMH 3800 LA EDAD DE CANADÁ (4)
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 regional-
ism.

ASH 3403 LA ERA ANICIENTA Y IMPERIAL CHINA (4)
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 Man-
cchu Dynasty (17th century).

ASH 3404 LA ERA MODERNA DE CHINA (4)
Political, economic, and social history of China from the time of the
first major Western contacts (17th-18th Centuries) through the con-
solidation of socialism in the late 1950's, and the Great Leap
Forward.

ASH 3501 LA ERA DE LA INDIA (4)
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
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>EUH 2011, 2012</td>
<td>An introductory survey of ancient history. EUH 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. EUH 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.</td>
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<tr>
<td>EUH 2021, 2022</td>
<td>A thematic survey of the Middle Ages. EUH 2021 deals with the nascent, Christian civilization of European, circa 300-1050 A.D.; EUH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.</td>
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<tr>
<td>EUH 2030, 2031</td>
<td>Anathematic 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.</td>
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<tr>
<td>EUH 3142</td>
<td>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.</td>
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<tr>
<td>EUH 3181</td>
<td>A survey of the Middle Ages. Medieval attitudes are manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.</td>
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<tr>
<td>EUH 3185</td>
<td>The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.</td>
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<tr>
<td>EUH 3188</td>
<td>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.</td>
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<tr>
<td>EUH 3189</td>
<td>An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.</td>
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<tr>
<td>EUH 3202</td>
<td>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.</td>
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<tr>
<td>EUH 3205</td>
<td>A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.</td>
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<tr>
<td>EUH 3206</td>
<td>A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.</td>
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<tr>
<td>EUH 3300</td>
<td>A survey of the Byzantine (Eastern Roman) Empire from its foundation in A.D. 330 to its collapse in 1453. Emphasis on the relationship between the Byzantine Empire and the course of European history and on the cultural heritage of this Empire.</td>
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<tr>
<td>EUH 3341</td>
<td>A study of ancient Greece focusing on the brilliant period following the Persian Wars, but emphasizing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.</td>
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<tr>
<td>EUH 3402</td>
<td>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.</td>
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<tr>
<td>EUH 3412</td>
<td>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.</td>
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<tr>
<td>EUH 3413</td>
<td>A study of Imperial Roman from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasizes Rome's governance of a vast Mediterranean empire including much of the near East and Europe.</td>
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<tr>
<td>EUH 3461</td>
<td>A political, social, and cultural approach to the history of the Germans from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.</td>
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<tr>
<td>EUH 3462</td>
<td>A historical survey of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.</td>
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<tr>
<td>EUH 3501</td>
<td>A study of major developments in British history from the 15th century to 1668.</td>
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<tr>
<td>EUH 3502</td>
<td>A survey of the major themes of British history from the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.</td>
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<tr>
<td>EUH 3530</td>
<td>A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.</td>
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<tr>
<td>EUH 3571</td>
<td>A study of the political, social, economic, and cultural development of Russia from the year 800 to 1865. Topics include the personality of Russian rulers, the origins of Russian Socialism, and Russia's relationship to the West.</td>
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<tr>
<td>EUH 3572</td>
<td>An analysis of the tradition from late imperial society to the contemporary Soviet system. Emphasis will be placed on continuity and change in the economic, political, and cultural aspects of Russia from 1865 to present.</td>
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<tr>
<td>HIS 3474</td>
<td>A thematic study of the interrelationship of science and society in modern history emphasizing the institutional forms, value structures, and social relations in science as they have developed from the scientific revolution to the present.</td>
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<tr>
<td>HIS 3930</td>
<td>This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.</td>
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<tr>
<td>HIS 4104</td>
<td>A 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.</td>
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<tr>
<td>HIS 4900</td>
<td>PR. CI. Arrangement with instructor prior to registration. Readings in special topics.</td>
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<tr>
<td>HIS 4920</td>
<td>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.</td>
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<tr>
<td>HIS 4936</td>
<td>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.</td>
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<tr>
<td>HIS 5215</td>
<td>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.</td>
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<td>LAH 3130</td>
<td>COLONIAL LATIN AMERICA (4)</td>
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<td>LAH 3200</td>
<td>MODERN LATIN AMERICA (4)</td>
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<td>LAH 3343</td>
<td>HISTORY OF MEXICO (4)</td>
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<td>LAH 3470</td>
<td>HISTORY OF THE CARIBBEAN (4)</td>
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<td>LAH 3480</td>
<td>HISTORY OF CUBA (4)</td>
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<td>WST 3210</td>
<td>WOMEN IN WESTERN CIVILIZATION I-6A (3)</td>
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<td>WST 3220</td>
<td>WOMEN IN WESTERN CIVILIZATION II (3)</td>
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<tr>
<td>WST 4309</td>
<td>THE FEMALE EXPERIENCE IN AMERICA (4)</td>
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<td>WST 4310</td>
<td>FEMINISM IN AMERICA (4)</td>
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<td>HUS 3001</td>
<td>INTRODUCTION TO HUMAN SERVICES (3)</td>
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<td>WST 3011</td>
<td>MODERN WORLD-6A (4)</td>
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<td>ISS 3010</td>
<td>INTRODUCTION TO THE SOCIAL SCIENCES (3)</td>
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**HUMAN SERVICES**

**HUS 3001** INTRODUCTION TO HUMAN SERVICES (3)  
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 4020** THE LIFE CYCLE (4)  
An examination of individuals and the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age and old age.

**HUS 4101** MODERN MHT 4302 INTERVIEWING (3)  
PR: HUS 3001 or CI. 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 (3)  
PR: HUS 3001 or CI. 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) (3)  
PR: HUS 3001 or CI. Attention will be given to techniques of intervention at individual, small group, and community levels. The need for crisis intervention programs in modern society.

**SOW 4332** COMMUNITY ORGANIZATION AND DEVELOPMENT (3)  
PR: HUS 3001 or CI. An interdisciplinary approach to community organization and development. A synthesis of social, cultural, psychological, economic, and political information concerning community structure and change.

**INTERDISCIPLINARY SOCIAL SCIENCES**

**ISS 3010** INTRODUCTION TO THE SOCIAL SCIENCES (3)  
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.

**ISS 4162** THE CITY AND URBANIZATION (3)  
An interdisciplinary perspective will be used to analyze the emergence 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 problem.

**ISS 4164** URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH (3)  
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.

**ISS 4935** SEMINAR IN THE SOCIAL SCIENCES (3)  
PR: Senior standing and ISS 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.

**ISS 5934** SELECTED TOPICS (1-3)  
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-6A (3)  
This course is designed to introduce concepts, theories, and assumptions that underlie specific techniques used in the social sciences. Emphasis is placed on selection of appropriate techniques given the research design to be utilized.

**INTERNATIONAL STUDIES**

**AREA STUDIES**  
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems. The same course may be repeated, but only when the countries of concentration differ. The regularly offered area study courses are:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ASN 3030</td>
<td>THE MIDDLE EAST (3)</td>
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<tr>
<td>EUS 3000</td>
<td>EUROPE (3)</td>
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<tr>
<td>LAS 3001</td>
<td>LATIN AMERICA (3)</td>
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<tr>
<td>AFA 4150</td>
<td>AFRICA AND THE UNITED STATES (3)</td>
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<tr>
<td>ASN 3012</td>
<td>JAPAN TODAY (3)</td>
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<td>ASN 3014</td>
<td>CHINA TODAY (3)</td>
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<tr>
<td>EUS 3022</td>
<td>SOVIET UNION TODAY (3)</td>
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</table>

**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.
IDS 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 policies.

IDS 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.

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

ISS 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.

ISS 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.

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

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

ISS 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.

ISS 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.

ISS 3955 OVERSEAS STUDY (1-6)
A program of individual or group research in a foreign country.

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

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

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

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

IDS 4936 SENIOR SEMINAR (3)
PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.

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

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 4945 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 POLICIES 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 9 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.

IDS 3002 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.

IDS 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.

IDS 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.

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

IDS 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.

IDS 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.

IDS 5086 ISSUES IN INTERNATIONAL RELATIONS (3)
Explores specific topics and provides the student with an opportunity for in-depth 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.
A study of Florida legislative, from an analysis and quantitative systems and the causes and consequences of the organization, nature of student demand and instructor's role, fundamentals selected members, and interest and ethnic groups; distribution of community and administrative law, the judicial process, and private law.

The presidency as a management and decision making; White House staffing; power. The study of the American setting.

The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

Selected topics in political science with course content based upon student demand and instructor's interest. May be repeated for up to 6 credits as topics vary.

Analysis of the roles and powers of mayors, city managers, council members, and interest and ethnic groups; distribution of community power.

Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; limits on power.

Organization, procedures, committee system, party leadership, relations with governmental and nongovernmental organizations, oversight, decision-making processes, House/Senate comparisons.

Leading public figures.

Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. (May also be taken for credit in Women's Studies.)

The positional status of women in American society, and women's changing role in societal processes. Open to majors and non-majors. (May also be taken for credit in Women's Studies.)

Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. (May also be taken for credit in Women's Studies.)

PR: 3.0 average in Political Science and Cl. Specialized study determined by the student's needs and interests. (S/U only.)

PR: 3.0 average in Political Science and Cl. Investigation of some aspect of political science culminating in the preparation of an original research paper.

PR: Senior standing and Cl. An opportunity to work with others in a seminar format, exploring specialized topics.

PR: 3.0 average in Political Science and Cl. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

Selected topics of study in American government. May be repeated for credit as topics vary.

Selected issues and topics in Urban Government and politics. May be repeated for credit as topics vary.

A survey of methods, problems, and issues in political research and analysis for the advanced student.

Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicist theory, analytical theory, and critical theory.

Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.

An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. Open to majors and non-majors. (May also be taken for credit in Women's Studies.)

PR: Graduate or senior standing and Cl. Selected topics in political philosophy and law. May be repeated as topics vary.

The study of health care policy as it relates to the policy process in the American setting.

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.

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.

Genetic, organic, and learned factors involved in the processes of personal adjustment: applications of mental health principles to everyday living. Not for major credit.

PR: PSY 3213 or Cl. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.
CLP 4414 BEHAVIOR MODIFICATION (3)
PR: PSY 3213 and Cl. 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 4430.

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 (5)
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 phonological, semantic, syntactic, and pragmatic development.

EXP 4104 SENSORY PROCESSES (3)
PR: PSY 3213 or Cl. Available to both majors and non-majors. Psychophysical and neuropsychological 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 4523C 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.

PPE 4004 PERSONALITY (3)
PR: PSY 3213 or Cl. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 4013C NEUROPSYCHOLOGY (3)
PR: PSY 3213 or Cl. Gross neural and physiological components of behavior. Structure and function of the central nervous system as related to emotion, motivation, learning, and theory of brain functions.

PSY 2012 AN INTRODUCTION TO CONTEMPORARY PSYCHOLOGY (3)
A broad survey of psychology for both majors and non-majors with special emphasis on the more applied areas of psychology (e.g., social psychology, abnormal psychology, personality, and developmental psychology.)

PSY 3013 GENERAL PSYCHOLOGY (3)
PR: PSY 2012 or Cl. Designed as an in-depth examination of the basic principles and concepts of psychology. Extensive coverage will be given to the areas of learning, perception, and neuropsychology.

PSY 3022 CONTEMPORARY PROBLEMS IN PSYCHOLOGY (3)
The content of this course varies depending on the needs and interest of students and faculty. Offerings include in-depth coverage of specialized aspects of psychology applied to contemporary problems not studied in general introductory courses.

PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)
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 (3)
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 4570 SYSTEMATIC PSYCHOLOGY (3)
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.

PSY 4913 DIRECTED STUDY (1-3)
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.

PSY 4932 HONORS SEMINAR (2)
PR: Admission to honors program in psychology 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 (6) hours credit.

SOP 3742 PSYCHOLOGY OF WOMEN (3)
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 (3)
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 4714C ENVIRONMENTAL PSYCHOLOGY (3)
PR: PSY 2012 or PSY 3013 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
PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION (3)
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 (3)
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 (3)
Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3)
PR: URP 4500 or URP 6056. Analysis of basic concepts, issues, and strategies of planning: policy determination, collection of information, and decision-making.

PAD 5605 ADMINISTRATIVE LAW (3)
An examination of the constitutional and statutory bases and limitations of the administrative process, administrative adjudication, rule making, and the judicial review of such actions.

PAD 5612 ADMINISTRATIVE REGULATION (3)
Analysis of the regulatory functions and processes in the American political system: regulatory commissions, their functions, powers, management, reforms, and relationship with other branches of government.

PAD 5700 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3)
This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.

PAD 5807 ADMINISTRATION OF URBAN AFFAIRS (3)
Analysis of the role of the administrator at the municipal level; the division of functions; policy formation; alternative governmental structures; effects on the administrative process.

PAD 5836 COMPARATIVE PUBLIC ADMINISTRATION (3)
How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

REHABILITATION COUNSELING

EGC 3060 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)
This introductory course (1) surveys the theories, concepts, and attitudes involved in helping disabled or disabled persons become increasingly able. (2) provides initial experiences with these counseling perspectives and methods and their personal application.

EGC 5065 CONCEPTS AND THEORETICAL ISSUES: LEGAL, ETHICAL, AND PROFESSIONAL STANDARDS (4)
An introduction to the rehabilitation processes in the public and private sector. An integration of concepts and procedures from the medical, socio-psychological, and human service disciplines. Ethical, legal, and professional standards in mental health and rehabilitation counseling are emphasized.

EGC 5378 MEDICAL AND PSYCHOPATHOLOGICAL ASPECTS OF DISABILITY (4)
A survey of medical and psychopathological conditions and disabilities encountered by mental health and rehabilitation counselors. Examines the relationship of client handicaps to rehabilitation and mental health programming. Psychopathology of mental disorders is stressed.

EGC 5490 SEMINAR IN HUMAN DEVELOPMENT THEORY AND PSYCHOPATHOLOGY (3)
PR: CI. Human development theory and psychopathology as applied in psychotherapy and case management in mental health, addictions, and other rehabilitation settings. Must be taken concurrently with EGC 5850. (S/U only.)

EGC 5496 THEORETICAL ISSUES IN APPLIED ALCOHOL ABUSE IN REHABILITATION COUNSELING (4)

EGC 5725 INTERPERSONAL COUNSELING SKILLS FROM PERSONALITY AND COUNSELING THEORIES (4)
PR: CI. Focuses on the utilization of one’s self in rehabilitation and mental health counseling relationships. Emphasis is on the experimental exploration and development of interpersonal skills within the context of personality and counseling theories.

EGC 5850 PRACTICUM I (1)
PR: CI. Supervised experience and participation in counseling in a variety of rehabilitation settings. Must be taken concurrently with EGC 5493. (S/U only.)

EGC 5905 DIRECTED STUDIES (1-4)
PR: CI. Supervised rehabilitation studies relevant to student’s professional development. May be repeated for a maximum of 8 hours credit.

SOCIAL WORK

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3)
PR: All pre-core courses. Restricted to Social Work majors, others by Department permission. An integrating human behavior-social 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 (3)
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 3203 THE AMERICAN SOCIAL WELFARE SYSTEM (2)
An introductory course tracing the development of the American social welfare system.

SOW 3502 INTRODUCTION TO SOCIAL WORK (3)
An introductory course tracing the development of the social work profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3403 RESEARCH AND STATISTICS FOR SOCIAL WORK (4)
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4253 SOCIAL WELFARE: POLICY & PROGRAM (4)
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 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION (5)
PR or CR: SOW 3101; SOW 3403. Restricted to Social Work majors; others by Department permission. Practice course emphasizing development of skills from practicum knowledge. Intervenive methods with individuals, families and small groups. Course includes a didactic and experimental learning component.

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION (5)
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 experimental learning component.

SOW 4361 SENIOR SEMINAR (2)
PR: All pre-core courses; all core Social Work courses, except that SOW 4910 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.
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SOW 4510 FIELD PLACEMENT (10)
PR: Completion of social work core courses except SOW 4410, 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 (1-6)
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 (1-3)
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 4930 SELECTED TOPICS IN SOCIAL WORK (1-4)
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.

SOCIETY

SYA 3010 FOUNDATIONS OF THEORY (3)
PR: SYG 2000 or Cl. Consideration of selected theories in sociology and procedures of systematic theory construction.

SYA 3300 SOCIAL INVESTIGATION (3)

SYA 3503 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)
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 (tape cassette) in the commentary film. Ethics of film making.

SYA 3504 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (1)
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 a maximum of three credits. (S/U only.)

SYA 4145 SOCIOLOGY OF MARRIAGE (3)
PR: SYG 2000 or Cl. An examination of the place of morals in social life, with special attention to politics, work, social structure, and the problem of the reproduction of social relations.

SYA 4430 COMPUTERS IN SOCIOLOGICAL RESEARCH (3)
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. (S/U only.)

SYA 4910 INDIVIDUAL RESEARCH (1-3)
PR: Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or Cl. 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 meeting major electives requirement.

SYA 4930 TOPICS IN SOCIOLOGY (3)
PR: 12 semester hours of Sociology and prior Cl. May be repeated for credit. See class schedule for content.

SYA 4935 SENIOR SEMINAR (3)
For seniors majoring in sociology or other social sciences. Major issues in sociology, stressing theory and research

SYA 4949 SOCIOLOGICAL INTERNSHIP (1-6)
PR: Senior or graduate standing in Sociology plus Cl. 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 (3)
PR: SYG 2000 or Cl. Comparative study of inter racial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

SYD 4020 POPULATION (3)
PR: SYG 2000 or Cl. upper level standing. Sociological determinants of fertility, mortality and migration; theories of population change.

SYD 4410 URBAN SOCIOLOGY (3)
PR: SYG 2000 or Cl. upper level standing. The social structure of the community in modern industrial societies. Analysis of community change.

SYD 4441 COMPARATIVE RURAL SOCIOLOGY (3)
PR: SYG 2000 or Cl. 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.

SYG 1010 CONTEMPORARY SOCIAL PROBLEMS (3)
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 (3)
PR: SYG 2000 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 Women’s Studies.)

SYG 2412 MARRIAGE (3)
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 (3)
PR: SYG 2000 or Cl. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

SYO 3500 SOCIOLOGY OF RELIGION (3)
PR: SYG 2000 or Cl. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SYO 3500 SOCIAL ORGANIZATION (3)
PR: SYG 2000 or Cl. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.
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SYO 3530 SOCIAL STRATIFICATION (3)
PR: SYG 2000 or Cl. Social status and social stratification, social class as a factor in behavior, social mobility.

SYO 4300 POLITICAL SOCIOLOGY (3)
PR: SYG 2000 or Cl. An examination of the social factors that affect government, politics, and political behavior.

SYO 4370 OCCUPATIONS AND PROFESSIONS (3)
PR: Upper level standing or Cl. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on process professionalizing service occupations like police work, business management, public administration and social work.

SYO 4400 SOCIOLOGY OF MEDICINE (3)
PR: SYG 2000 or Cl. 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 (3)
PR: SYG 2000 or Cl; upper level standing. Interaction, communication and authority in economic organization; the factory as a social system.

SYP 3000 SOCIAL PSYCHOLOGY (3)
PR: PSY 2012 or SYG 2000. Behavior of the individual human being as affected by social and cultural influences of modern society.

SYP 4300 COLLECTIVE BEHAVIOR (3)
PR: SYG 2000 or Cl. Upper level standing. Study of the development of group and mass behavior crowds, social movements.

SYP 4400 SOCIETY IN TRANSITION (3)
PR: Introduction to Sociology and upper level standing. An analysis of the forces for change in contemporary society, utilizing a sociological perspective.

SYP 4420 SOCIOLOGICAL IMPLICATIONS OF INDUSTRIALIZATION (3)
PR: SYG 2000 or Cl. Socio-cultural elements which define and accompany the process of industrialization as observed in mature industrial nations.

SYP 4510 SOCIOLOGICAL ASPECTS OF DEVIANC (3)
PR: SYG 2000, or Cl. Definition and theories of deviance applied to substantive areas such as drug use, sexual varieties, and other stigmatized activities, mental illness, and white collar crimes.

SYP 4520 CRIMINOLOGY (3)
PR: SYG 2000 or Cl; upper level standing. Etiology of criminal behavior; law enforcement, crime in the United States, penology and prevention.

SYP 4530 JUVENILE DELINQUENCY (3)
PR: SYG 2000 or Cl; upper level standing. Theories of delinquency, patterns of delinquent behavior methods of control and treatment.

SYP 4600 SOCIOLOGY OF THE ARTS (3)
PR: SYG 2000 or Cl; upper level standing. The creation, distribution and use of arts from a sociological perspective; the social roles involved.

SYP 4640 LEISURE IN SOCIETY (3)
Facts and trends of changing leisure-time patterns in the USA and other countries; various conceptualizations of leisure; relationships on non-work time to work attitudes, personality, family, community, subcultures, religion, value systems, social class, and the functions of government.

SYP 4650 SPORT IN SOCIETY (3)
An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social institutions, economic considerations, mass media, and the sport group as a micro-social system.

SYP 5035 SOCIOLOGY OF SMALL GROUPS (3)
PR: SYG 2000 or Cl; upper level standing. Theory of small group structure, mechanics of interaction, observation of small groups.

SYP 5055 SOCIAL INTERACTION (3)
PR: SYG 3000 or Cl; upper level standing. Interpersonal influence, complex behavior, role, conflict, and social situational factors.

SYP 5405 SOCIAL CHANGE (3)
PR: SYG 2000 or Cl; upper level standing. Major theories of social and cultural change, and mechanisms of change in various societies.

WOMEN'S STUDIES

AFA 4335 BLACK WOMEN IN AMERICA (3)
PR: WST 2010, or AFA 2001, 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 (3)
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 History.)

AMH 3562 AMERICAN WOMEN II (3)
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 History.)

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY - 6A (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.)

LAT 3383 IMAGE OF WOMEN IN LITERATURE (3)
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.)

POS 4693 WOMEN AND LAW I (3)
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. Open to majors and non-majors. (May also be taken for credit in Political Science.)

POS 4694 WOMEN AND LAW II (3)
PR: POS 4693 or Cl. Legal positon of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Political Science.)

PUP 4323 WOMEN AND POLITICS (3)
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. Open to majors and non-majors. (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.)

SYO 4800 SOCIOLOGY OF SEX ROLES (3)
PR: SYG 2000, WST 2010 or 3011; 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 3011 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 (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, relation 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 sociopsychological 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. Factors in this conditioning, and alternatives to masculine sex role models.

WST 4309 THE FEMALE EXPERIENCE IN AMERICA (3)
PR: WST 2010, or WST 3011, or Cl. 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 3011, 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 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 Cl. Study in special areas such as Feminist Ethics, Women Artists, etc.

WST 4935 SEMINAR IN WOMEN’S STUDIES (3)
PR: WST 2010 or Cl. 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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Center for Economic and Management Research
JOSEPH S. DESALVO
Small Business Development
WILLIAM MANCK
Professional Development Center
MARYANNE M. ROUSE
Center for Economic Education
DICK J. PUGLISI
Center for Organizational Effectiveness
HAROLD M. SCHRODER
Institute For Banking and Finance
JAMES L. PAPPAS
Development
RICHARD T. BOWERS
Institute for Information Systems Management
WAYNE C. SWANSON

College of Education

Dean
WILLIAM KATZENMEYER
Associate Dean, Administration
H. EDWIN STEINER
Associate Dean, Programs
EVELYN SEARLS
Asst. Dean, Clinical Education & Special Projects
MARCIA MANN
Asst. Dean, Community Relations
DICK PUGLISI

Chairpersons:
Adult and Vocational Education
CLARENCE COLLIER
Childhood/Language Arts/Reading Education
TBA
Counselor Education
VICTOR DRAPELA
Educational Leadership
DONALD ORLOSKY
### College of Engineering

**Dean**
- Michael G. Kovac
- Melvin W. Anderson
- J. Anthony Llewellyn
- Thomas E. Wade
- Andrew Barrett

**Chairpersons:**
- Chemical Engineering: Carlos A. Smith
- Civil Engineering and Mechanics (Interim): Stanley Kranc
- Computer Science and Engineering: Murali R. Varanasi
- Electrical Engineering: Elias K. Stefanakos
- Industrial and Management Systems Engineering: Paul E. Givens
- Mechanical Engineering: William A. Smith

**Directors:**
- Coordinator of Advising: George R. Card
- Bi-County Center for Engineering: Horace Gordon
- Center for Microelectronic Design and Test: Joseph Stach
- Center for Urban Transportation Research: Gary Brosch
- College of Engineering Facilities Development: Linus A. Scott
- Lakeland: Frank Young
- Southern Technology Applications Center Technology: Michele Young
- Technology: Dolores K. Gooding

### College of Fine Arts

**Dean**
- John L. Smith
- Virginia Bridges
- John W. Coker

**Chairpersons:**
- Art: Alan Eaker

### College of Natural Sciences

**Dean**
- Leon Mandell
- Stewart L. Swihart
- Rosemary M. Morley

**Chairpersons:**
- Biology: Marvin R. Alvarez
- Chemistry: Stuart W. Schneller
- Geology: Sam B. Upchurch
- Marine Science: Peter R. Betzer
- Mathematics: Kenneth L. Pothoven
- Physics: Swaminatha Sundaram

**Directors:**
- Botanical Gardens: Frederick B. Essig
- Development: Glenda Hodgson
- Media/Public Relations: Claudia Noble
- SYCOM: Bradley Albers
- USF Art Museum & Gallery: Margaret Miller
- Fine Arts Events Production: Patrick Finelli
- Student Personnel: TBA
- Student Activities: TBA
- Undergraduate Affairs: TBA
- Graduate Affairs: TBA
- Continuing Medical Education: Pierre J. Bolis
- VA Activities: Marvin Dunn
- Graduate Affairs: TBA
- Medical Education: TBA
- Orthopaedic Surgery: TBA
- Obstetrics and Gynecology: William N. Spellacy
- Ophthalmology: William E. Layden
- Pathology: David T. Rowlands, Jr.
- Pediatrics (Acting): Diane H. Russell
- Pharmacology and Therapeutics: Garleton H. Baker
- Psychiatry and Behavioral Medicine: Anthony J. Reading
- Radiology: Martin L. Silbiger
- Surgery: Richard G. Connar
- Student Admissions: Jay S. Layman
- Student Affairs: Carolyn W. Niccolosi
- Suncoast Gerontology Center: Eric Pfeiffer
- Diabetes Center: John T. Malone
Herbarium: RICHARD P. WUNDERLIN
Medical Technology: EUGENE D. OLSEN
Planetarium: JOE A. CARR
Pre-Medical Advising Committee: CAROLE F. HENDRY
Sylvia C. King: JAMES D. RAY, JR.

College of Nursing
Dean: JUDITH A. PLawecki
Assistant Dean for Academic Affairs: S. JOAN GREGORY
Assistant Dean for Undergraduate Studies: CECILE A. LENGACHER
Assistant Dean for Graduate Studies: TBA
Director, Continuing Education: LORETTA R. LOPEZ

College of Public Health
Dean: PETER J. LEVIN
Assistant Dean for Academic Affairs: RITA G. BRUCE
Assistant Dean for Administration: JOHN H. SKINNER

College of Social and Behavioral Sciences
Dean: JULIA M. DAVIS
Associate Dean: EDWARD SILBERT
Associate Dean: CURTIS W. WIENKER
Chairpersons:
Anthropology: ROGER GRANGE
Communication Science & Disorders: ELAINE R. SILLMAN
Criminology: WILLIAM R. BLOUNT
Economics: DONALD BELLANTE
Geography (acting): DEWEY STOWERS
Gerontology: THOMAS RICH
History: JAMES SWANSON
Political Science: EDWIN BENTON
Psychology: LOUIS PENNER
Rehabilitation Counseling: CALVIN PINKARD
Social Work: BONNIE YEGIDIS
Sociology: MICHAEL KLEIMAN

Division Directors:
Interdisciplinary Social Science: MARILYN MYERSON
Program Directors:
African and Afro-American Studies: FESTUS OHAEGBULAM
Off-Campus Term Program: KEITH LUTPON
Coordinators:
International Studies: DARRELL SLIDER
Women's Studies: JANICE SNOOK

Program Directors:
Human Resources Institute: JULIA M. DAVIS
Public Administration: JAMES REWIN

School of Extended Studies and Learning Technologies
Dean: JAMES B. HECK
Assistant Dean: KENNETH D. STANTON
Assistant to the Dean: LARRY ROMIG

Graduate School
Dean: JAMES M. ANKER
Associate Dean: RICHARD L. MANSELL
Academic Administrator: CHRISTINA WHIDSTEN
Director, Graduate Scholarship/Fellowship Program: TBA
Chair, USF Press Editorial Board: SILVIA RUSSO-FIORE
Manuscript Consultant: PAZ DOROTHEO

Undergraduate Studies
Dean: WILLIAM H. SCHEUERLE
Associate Dean: THELMA D. BENTON
Director, Community College Relations: FRANK H. SPAIN
Director, Career Resource Center: GLENDRA L. LENTZ
Director, Evaluation and Testing: HARRIET SELIGSOHN
Director, Honors Program: STUART SILVERMAN
Coordinator, Academic Advising: KENYON TILLOTSON
Coordinator, Athletics Advising: KEVIN MARONIC
Coordinator, Disabled Student Academic Services: ROBERTA ARMSTRONG
Coordinator, Project Trust: MACK DAVIS
Coordinator, Student Support Services: JOAN HOLMES
Air Force ROTC: Col. DONALD LIESCH
Army ROTC: LT COL HOWARD ABNEY

USF at Fort Myers
Campus Dean and Executive Officer: BARBARA R. SHERMAN
Assistant Dean for Academic Affairs: GILBERT R. HUTCHCRAFT
Director, Administration and Finance: GLENN E. NITSCHKE
Director, Student Affairs: MADELYN L. ISAACS
Director, ECC-USF Learning Resources: CHARLES RITCHIE
Director, University Relations and Development: JAMES E. HOF

USF at Sarasota
Campus Dean: ROBERT V. BARYLSKI
Associate Dean: PAUL E. McCLENDON
Business Manager: BERNI E. LUNDSTROM
<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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<tbody>
<tr>
<td>Campus Librarian</td>
<td>ALTHEA H. JENKINS</td>
</tr>
<tr>
<td>Director, Development</td>
<td>GERALD H. HILL</td>
</tr>
<tr>
<td>Director, Bi-County Center for Engineering</td>
<td>HORACE C. GORDON, JR.</td>
</tr>
<tr>
<td>Director, Media Center</td>
<td>RONALD LERNER</td>
</tr>
<tr>
<td>Director, Physical Plant</td>
<td>THOMAS J. PENN</td>
</tr>
<tr>
<td>Director, Police Services for Regional Campuses</td>
<td>WALTER HOOPER</td>
</tr>
<tr>
<td>Director, Public Affairs</td>
<td>JOHN MEYER</td>
</tr>
<tr>
<td>Director, Records and Registration</td>
<td>NANCY E. FERRARO</td>
</tr>
<tr>
<td>Director, Student Affairs</td>
<td>OARE DOZIER-HENRY</td>
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<tr>
<td>Chairpersons:</td>
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<tr>
<td>Humanities</td>
<td>JOHN D. MOORE</td>
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<tr>
<td>Natural Sciences</td>
<td>JANE STEPHENS</td>
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<tr>
<td>Social Sciences</td>
<td>CHARLENE LEVY</td>
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<tr>
<td>Provost</td>
<td>ROBERT R. BENEDETTI</td>
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<tr>
<td>Director, Special Project Development</td>
<td>JAMES W. FEENEY</td>
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<tr>
<td>Director, New College Admissions</td>
<td>ROBERT H. THORON</td>
</tr>
<tr>
<td>Associate Dean, Academic Affairs</td>
<td>LOWELL E. DAVIS</td>
</tr>
<tr>
<td>Director, Administration &amp; Finance</td>
<td>KAREN I. SPEAR</td>
</tr>
<tr>
<td>Director, Academic Advising</td>
<td>HERMAN J. BRAMES</td>
</tr>
<tr>
<td>Director, Development</td>
<td>WILLIAM GARRETT</td>
</tr>
<tr>
<td>Director, Poynter Library</td>
<td>RALPH F. MCKAY</td>
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<tr>
<td>Director, Student Affairs</td>
<td>SAMUEL FUSTUKIJAN</td>
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<tr>
<td>Director, Student Affairs</td>
<td>STEPHEN RITCH</td>
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<tr>
<td>USF at St. Petersburg</td>
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<tr>
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<td>ROBERT H. THORON</td>
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**ORIENTATION & PERSONNEL**

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<th>Role</th>
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<tbody>
<tr>
<td>Director, University Budgets</td>
<td>JAY KARP</td>
</tr>
<tr>
<td>Director, University Computing Services</td>
<td>CHARLES E. FISHER</td>
</tr>
<tr>
<td>Director, University Personnel Relations</td>
<td>TRUDIE E. FRECKER</td>
</tr>
<tr>
<td>Director, Telecommunications</td>
<td>RICHARD S. KAYE</td>
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**DEVELOPMENT AND ALUMNI AFFAIRS**

<table>
<thead>
<tr>
<th>Role</th>
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<tbody>
<tr>
<td>Vice President</td>
<td>JOSEPH F. BUSTA, JR.</td>
</tr>
<tr>
<td>Associate Vice President</td>
<td>MARK LONO</td>
</tr>
<tr>
<td>Director, Alumni Affairs</td>
<td>LELAND PATOUILLET</td>
</tr>
<tr>
<td>Director, Foundation Relations</td>
<td>AUGUST L. FREUNDLICH</td>
</tr>
<tr>
<td>Business Manager, USF Foundation, Inc.</td>
<td>JOHN O. SCOTT</td>
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**OFFICE OF THE GENERAL COUNSEL**

<table>
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<tr>
<th>Role</th>
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<tbody>
<tr>
<td>General Counsel</td>
<td>BRYAN S. BURGESS</td>
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<tr>
<td>Senior Counsel</td>
<td>CARLA JIMENEZ</td>
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<tr>
<td>Associate General Counsel</td>
<td>DEBRA A. KING</td>
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<td>Associate General Counsel</td>
<td>JOLINE MICEL-MULLEN</td>
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<td>Associate General Counsel</td>
<td>JUSTIN R. LUMLEY</td>
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<tr>
<td>Assistant General Counsel</td>
<td>WENDY J. THOMPSON</td>
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**OFFICE OF RESEARCH**

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<th>Role</th>
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<tr>
<td>Vice President</td>
<td>GEORGE R. NEWKOME</td>
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<tr>
<td>Director, Sponsored Research</td>
<td>FRANK LUCARELLI</td>
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<tr>
<td>Executive Director, Technology Transfer</td>
<td>RALPH D. GUNTER</td>
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<td>GraphicStudio</td>
<td>DONALD J. SAFF</td>
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**STUDENT AFFAIRS**

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<th>Role</th>
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<tbody>
<tr>
<td>Vice President</td>
<td>DANIEL R. WALBOLT</td>
</tr>
<tr>
<td>Associate Vice President and Dean of Students</td>
<td>CHARLES F. HEWITT</td>
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<tr>
<td>Associate Vice President Housing and Auxiliary Services</td>
<td>RAYMOND C. KING</td>
</tr>
<tr>
<td>Associate Dean of Students</td>
<td>TROY COLLIER</td>
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<tr>
<td>Associate Dean of Students</td>
<td>WANDA LEWIS-CAMPBELL</td>
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<tr>
<td>Director, Intercollegiate Athletics</td>
<td>PAUL GRIFFIN</td>
</tr>
<tr>
<td>Director, Counseling Center for Human Development, Veterans Affairs</td>
<td>WILLIAM ANTON</td>
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<tr>
<td>Director, Student Health Services</td>
<td>MARIA ANDERSON</td>
</tr>
<tr>
<td>Director, Campus Recreation</td>
<td>ANDREW HONKER</td>
</tr>
<tr>
<td>Director, Financial Aids</td>
<td>GWYN FRANCIS</td>
</tr>
<tr>
<td>Director, Student Publications (Acting)</td>
<td>TBA</td>
</tr>
<tr>
<td>Director, University Center</td>
<td>PHYLLIS MARSHALL</td>
</tr>
<tr>
<td>Coordinator, Veteran Affairs</td>
<td>MEREDITH NICKLES</td>
</tr>
<tr>
<td>Director, USF Golf Course</td>
<td>ROBERT SHIVER</td>
</tr>
<tr>
<td>Administrator, Child Care Center</td>
<td>MELONESE STRONG</td>
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**UNIVERSITY RELATIONS**

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<tr>
<th>Role</th>
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<tr>
<td>Vice President</td>
<td>BARBARA ANN BLUE</td>
</tr>
<tr>
<td>Director, Public Affairs</td>
<td>ROBERT L. ALLEN</td>
</tr>
<tr>
<td>Director, Community Relations</td>
<td>ANN ROSS</td>
</tr>
<tr>
<td>Director, Government Relations</td>
<td>STEVEN J. ALEXANDER</td>
</tr>
<tr>
<td>Director, Government Relations for Health Affairs</td>
<td>JEFFREY MUIR</td>
</tr>
</tbody>
</table>
All members of the University of South Florida faculty and administrative staff, including teaching, research, administrative and professional personnel are listed below in alphabetical order. The listing includes name, current rank and field, first year of continuous appointment to any position in the institution, degrees, and institution and year of terminal degree, as of August 8, 1988. (A semicolon between degrees indicates different institutions.) [*Charter faculty or administrative staff]

ABNEY, HOWARD M., Jr, LTC, Professor (Military Science), 1988

ACHENBACH, KARL E., Assistant Professor (Psychiatry), 1979
B.A., Ph.D., University of Florida, 1968

ACKERMANN, JOHN R., Professor (Surgery), 1983 (Part time)
M.B., Ch.B., M.D., University of Cape Town, South Africa, 1965

ACOSTA, DAVID, Visiting Associate Professor (Anesthesiology), 1986
B.S.; M.D., University of Miami School of Medicine, 1982

ADAIK, W. LEE, JR, Professor (Biochemistry), 1975
B.S.; Ph.D., Georgetown University, 1972

ADELMAN, HAROLD M., Associate Professor (Internal Medicine), 1988
B.A.; M.A, University of South Florida, 1972

ALBERS, MICHELLE A., Assistant Professor (Computer Science and Engineering), 1986
B.S.; M.S., Ph.D., North Carolina State University, 1985

ALBERS, BRADLEY G., Associate Professor (Music-SYCOM), 1978
B.M., D.M.A., University of Illinois, 1978

ALBERS, MICHELLE M., Assistant Professor (Nursing), 1987
B.A., M.S., Ohio State University, 1987

ALBERTO, LOUIS M., Assistant Professor (Accounting), 1986
B.S., M.A., M.P.A.; J.D., Seton Hall University Law School, 1972

ALBERTS, W. MICHAEL, Associate Professor (Internal Medicine), 1983
B.A., M.D., University of Illinois, 1977

ALESSANDRINI, JO-ANN G., Academic Administrator (Natural Science), 1985
B.A., Notre Dame College, 1981

Alexander, Lilia, Assistant in Research (Suncoast Gerontology Center), 1987
B.A., University of Colorado, 1980

Alexander, MARY B., Instructor (Information Systems & Decision Sciences), 1988
B.A., M.A., Indiana University, 1977

Alexander, STEVEN J., Assistant Vice President (University Relations), 1986
B.S., Michigan State University, 1977

Allen, HAROLD C., Associate Professor (Information Systems Decision Sciences), 1967
B.A.; M.B.A.; Ph.D, University of Florida, 1989

Allen, NOLA A., Associate Professor (Interdisciplinary Social Science), 1979
B.A., LL.B., J.D.; M.A.; M.B.A.; Ph.D, University of Notre Dame, 1979

Allen, ROBERT L., Director, Information Services (Public Affairs), 1985
B.S.; M.A.; M.A., University of Iowa, 1968

Allmon, WARREN D., Assistant Professor (Geology), 1998
A.B., Ph.D., Harvard University, 1988

Ally, JANET F., Coordinator (College Administration, Education), 1977
B.A.; M.A., University of South Florida, 1974

Altus, PHILIP, Professor (Internal Medicine), 1976
A.B.; M.D., State University of New York, Upstate Medical Center, 1971

Alvarez, MARVIN R., Professor - Chairperson (Biology), 1965
B.S., M.S., Ph.D., University of Florida, 1964

Ames, STACY J., Academic Administrator (Communication), 1988
B.A., M.A., University of Iowa, 1986

Ammons, J. MICHAEL, Assistant Professor (Electrical Engineering), 1980
B.A., M.S., Ph.D., University of South Florida, 1980

Anderson, PHILIP H., Assistant Professor (Surgery), 1983
B.S.; M.D., Marquette University, 1964

Anderson, CARMEN S., Assistant in Research (Crime & Delinquency, FMHI), 1986
B.A.; M.A., Duquesne University, 1982

Anderson, DONNA J., Assistant Professor (Counselor Education), 1987
B.A.; M.A, Ed.D., Ph.D., University of South Florida, 1984

Anderson, DOUGLAS C., Student Affairs Coordinator (Financial Aids, Student Affairs), 1980
B.A., University of South Florida, 1973

Anderson, E. CHRISTIAN, Professor (Psychological and Social Foundations Education), 1964
B.A., M.A., Ph.D., University of Michigan, 1964

Anderson, JAMES B., Coordinator, Insurance & Risk (Health Sciences), 1988
B.B.A.; B.L., Georgia College, 1960

Anderson, MARIA J., Director (Student Health Services, Student Affairs), 1978
M.D.; M.D., University of South Florida, 1983

Anderson, MELVIN W., Professor - Chairperson (Civil Engineering and Mechanics), 1969
B.S.; M.S., Ph.D., Carnegie - Mellon University, 1967, P.E.

Anderson, NANCY A., Assistant Professor (Childhood Education), 1985
B.S.; M.Ed., Ed.D., University of Southern Mississippi, 1982

ANDERSON, ROBERT L., Professor (Marketing), 1971
B.S.; M.S., Ph.D., North Texas State University, 1971

Andrews, ANTHONY P., Associate Professor (Anthropology), New College of USF, 1986 Sarasota Campus
B.A.; M.A., University of Arizona, 1980

Angel, JEFFREY L., Visiting Assistant Professor (Obstetrics and Gynecology), 1984
B.S.; M.D., University of South Florida, 1980

ANGROSINO, MICHAEL V., Professor (Anthropology), 1972
B.A., Ph.D., University of North Carolina, 1972

Anker, JAMES M., Dean - Professor (Graduate School), Professor (Psychology), 1974
A.B., M.A., Ph.D., Catholic University of America, 1957

Anker, MARTHA F., Acting Coordinator, Public Service Delivery Program (FMHII), 1987
B.A., M.A., Ph.D., University of South Florida, 1986

Anton, JOHN P., Professor (Philosophy- Classics), 1982
B.S., M.A., Columbia University, 1954

Anton, WILLIAM D., Director (Counseling Center for Human Development, Student Affairs), 1972
B.A., M.A., University of South Florida, 1975

Applegate, MINERVA I., Professor (Nursing), 1976
B.S.N.; M.Ed., Ed.D., Columbia University Teachers College, 1980

Arendash, GARY W., Associate Professor (Biological), 1981
B.S., Ph.D., University of California, San Francisco, 1978

Armstrong, ADAM W., Assistant in (Public Health), 1988
B.S.; M.S.P.H., University of South Florida, 1988

Armstrong, ROBERTA M., Coordinator - Counselor/Advisor (Academic Services), 1987
B.A., M.A., University of South Florida, 1987

Arnade, CHARLES W., Professor - Coordinator (Lakeland Center), 1961
A.B., M.A., Ph.D., University of Florida, 1955

Arsenault, KATHLEEN H., Associate University Librarian (University Libraries), 1982 St. Petersburg Campus (Part time)
B.A., M.S., Simmons College, 1973

Arsenault, RAYMOND O., Associate Professor (History), 1960, St. Petersburg Campus
B.A.; M.A., Ph.D., Brandeis University, 1980

Aubel, JOSEPH L., Associate Professor (Physics), 1964
B.S., Ph. D., Michigan State University, 1964
FACULTY & ADMINISTRATIVE PERSONNEL

AUCREMAN, CHARLES E., Professor-Chairperson (Family Medicine), 1975
A.B.; M.S., M.D., Emory University School of Medicine, 1943

AUDIBERT, FRANCOISE, Associate Research Scholar/Scientist (Pharmacology & Therapeutics), 1986
B.S.; M.S., Ph.D., Institut Pasteur, 1973

AUGEREAU, J. PAUL, Assistant Professor (Anesthesiology), 1987 (Part time)
M.D., University of Paris, South, 1972

AULWES, BARBARA A., Area Administrator (University Housing, Student Affairs), 1983
B.A., M.S.Ed., University of Wisconsin, 1983

AUSBON, WILLIAM W., Professor-Director (Pediatrics), 1982
B.A.; M.D., Medical College of Alabama, 1958

AZAR, HENRY A., Professor (Pathology), 1972
B.A., M.D., American University of Beirut, Lebanon, 1952

BABIONE, LOIS, Assistant In (Pediatrics), 1980
B.S.; M.S., Florida State University, 1975

BABEL, ADDAGATLA J.G., Assistant Professor (Indus trial & Management Systems Engineering), 1985
B.S.; M.S.; M.D.; Ph.D., Southern Methodist University, 1979

BACKHAUS, SUSAN J., Visiting Academic Administrator (Education), 1987
B.A., M.B.A., Florida Institute of Technology, 1985

BAKEY, PAUL, Assistant Professor (Pathology and Laboratory Medicine), 1988
B.S.; M.S., M.D., University of Florida, 1983

BAER, ROBERTA D., Assistant Professor (Anthropology), 1984
B.A.; M.A.; Ph.D., University of Arizona, 1984

BAILEY, DANIEL S. III, Associate Professor (Mass Communications), 1979
B.S.; M.B.A.; Ph.D., University of Tennessee, 1977

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BAIRD, ROBERT D., Professor (Humanities), New College of USF, 1969, Sarasota Campus
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BAKER, CARLETON H., Professor-Chairperson (Physiology), 1971
B.A.; M.A., Ph.D., Princeton University, 1955

BAKER, CAROL L., Visiting Instructor (Psychiatry and Behavioral Medicine), 1984
B.A.; M.S.W., Florida State University, 1973

BALFOUR, ALAN, Associate Professor (Management), 1980 St. Petersburg Campus
B.A.; M.L.I.T.; J.D.; Ph.D., Michigan State University, 1975

BALIS, JOHN U., Professor (Pathology), 1978
M.D., National University of Athens, Medical School, Greece, 1957

BALLESTER, CHRISTINA B., Visiting Assistant Professor (Psychiatry), 1988 (Part Time)
M.D., University of Buenos Aires, 1973

BALSERA, ALICIA F., Associate In (Engineering), 1986
B.S. Che.; M.S. Che., University of South Florida, 1986

BANES, RUTH A., Associate Professor (American Studies), 1979
B.A., Ph.D., University of New Mexico, 1978

BANCOUB, SAMIR N., Professor (Public Health), 1983
M.D., D.P.H., Dr.P.H., Alexandria University, Egypt, 1979

BARBER, MICHAEL J., Associate Professor (Biochemistry), 1982
B.Sc., M.Sc., Ph.D., University of Sussex, 1975

BARCLAY, LAURIE L., Assistant Professor (Neurology), 1988
B.A.; Cornell University, 1978

BARKHOLZ, GERALD R., Associate Professor (Childhood Education), 1968
B.S.; M.Ed.; Ed.D., University of Florida, 1976

BARNARD, CHARLES W., Professor-Chairperson (Psychological and Social Foundations Education), 1968
A.B.; M.A.; M.S., Ph.D., Yale University, 1963

BARNESS LEWIS A., Professor-Chairperson (Pediatrics), 1972
A.B., M.D., Harvard Medical School, 1944 M.A. Hon.

BAROBS, BRIGITA M., Visiting Assistant In (Exceptional Child Education), 1968
B.A., University of Minnesota, 1984

BARRETT, ANDREW J., Assistant Dean-Instructor (Engineering), 1982
B.A.; M.A.; Ed.D., University of Florida, 1976

BARTELS, LOREN J., Associate Professor (Surgery), 1980
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BARTLETT, ALTON C., Professor - Chairperson (Management), 1967
B.S.; Ph.D., University of Wisconsin, 1964

BASKI, ROBERT V., Academic Administrator (Sarasota Campus), 1979
B.A.; M.A., Ph.D., Harvard, 1972

BASSETT, KENNETH E., Assistant In Research (Biology), 1968
B.S.; M.S., Kansas State University, 1965

BATES, MARGARET L., Professor (Social Sciences), New College of USF, 1975 Sarasota Campus

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BAUDONI, LARRY A., Assistant Vice President (Medical Center), 1972
B.S.; M.B.A., Nova University, 1967

BAUM, ROSALIE M., Assistant Professor (English), 1987
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BAUMGARTEN, STEVEN A., Associate Professor (Marketing), 1976
B.I.E.; M.S., Ph.D., Purdue University, 1971

BAYON-CERISI MANUEL, Visiting Assistant Professor (Public Health), 1987
B.A.; M.D., M.Sc.; Ph.D., Johns Hopkins University, 1985

BEECH, DOROTHY R., Counselor/Advisor (Counseling Center for Human Development, Student Affairs), 1972
B.A.; M.A.; Ed.D., Nova University, 1975

BEALL, KATHLEEN, Student Affairs Coordinator (University Housing, Student Affairs), 1973
B.A., M.A., University of South Florida, 1979

BEASLEY, BOB L., Associate Professor (Physical Education, Education), 1970
B.S., M.Ed.; Ph.D., Florida State University, 1968

BEATTY, M. ELLEN, Assistant Professor (Surgery), 1986
B.S.; M.D., University of South Florida, 1977

BEAVERS, TERRY L., Associate Director (University Computer Services), 1987
B.A.; M.S.; Ph.D., University of Southern Mississippi, 1987

BECK, ROY W., Associate Professor (Ophthalmology), 1986
A.B.; M.D., University of Pennsylvania School of Medicine, 1977

BECKENSTEIN, CHARLES R., Instructor (Anesthesiology), 1988 (Part time)
B.S.; M.D., Downstate Medical Center, State University of New York, 1984

BECKER, JUDITH A., Associate Professor (Psychology), 1981
B.A., Ph.D., University of Minnesota, 1981

BEDINGFIELD, SHERRY A., Head Athletic Coach (Women Athletics), 1979
B.A., M.A., University of South Florida, 1976

BEENHAKKER, ARIE, Professor (Finance), 1973
Ph.D.; Ph.D., Purdue University, 1964

BEHNKE, ROY H., Professor - Chairperson (Internal Medicine), 1972
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BEIL-WAUGH, JOANNE M., Associate Professor (Philosophy), 1990
B.A.; M.A., Ph.D., University of Southern California, 1980

BEL, JAMES A., Associate Professor - Chairperson (Philosophy), 1974
A.B.; M.A.; Ph.D., Boston University, 1969

BELL, SUSAN S., Associate Professor (Biology), 1979
A.B.; M.S.; Ph.D., University of South Carolina, 1979

BELIANTE, DONALD M., Professor-Chairperson (Economics), 1985
B.S.; M.B.A.; Ph.D., Florida State University, 1971

BELLOHARVEY, JOHN M., Professor (History), 1970
B.A., M.A., Ph.D., University of Nebraska, 1970

BELSOLE, ROBERT J., Professor (Surgery), 1977
B.S.; M.D.; Ph.D., University of South Florida, 1969

BELT, JACK W., Associate Professor (Theatre Arts), 1966
B.A.; M.F.A.; J.D., University of Florida, 1967

BENADUSI, GIOVANNA, Assistant Professor (History), 1988
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BENCZE, KATHERINE S., Instructor (Neurology), 1987
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BENEDIETTI, ROBERT, Provost-Professor (Social Science), New College of USF, 1975 Sarasota Campus
B.A.; M.A., Ph.D., University of Pennsylvania, 1975
BENFORD, STEPHEN A., Assistant In (Pediatrics), 1981
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BENJAMIN, WILLIAM F., Professor (Educational Leadership Education), 1968
B.A., M.A., Ph.D., George Peabody College, 1961

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BENTON, J. EDWIN, Associate Professor-Chairperson (Political Science), 1979
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BENTON, THELMA D., Academic Administrator (Undergraduate Studies, Academic Affairs), 1960
B.S.; M.S.; Ph.D., Florida State University, 1981

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BERGGREN, DOUGLAS C., Professor (~Humanities), New College of USF, 1975 Sarasota Campus
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BERNETT, ADELE S., Associate University Comptroller (Finance and Accounting), 1968
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BESLEY, SCOTT, Assistant Professor (Finance), 1982
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BEST, KEVIN R., Assistant Director (Housing and Auxiliary Services, Student Affairs), 1981
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BESTANCOURT, SONIA B., Assistant In Research (Engineering), 1988
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BETZ, JOHN V., Associate Professor (Biology), 1963
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BETZER, PETER, Professor - Chairperson (Marine Science), 1971 St. Petersburg Campus
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B.Tech.; M.S., Ph.D., Pennsylvania State University, 1987

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BILAL, DANIA M., Visiting Associate University Librarian (University Libraries), 1988
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BINFORD, JESSE S., JR., Professor (Chemistry), 1961
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BLAIR, R. Clifford, Visiting Associate Professor (Pediatrics), 1975
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BLAKE, NORMAN J., Professor (Marine Science), 1972 St. Petersburg Campus
B.S.; M.S., Ph.D., University of Rhode Island, 1972

BLANCHARD, DARLENE K., Visiting Assistant Professor (Medical Microbiology), 1987
B.A.; M.S., Ph.D., University of South Florida, 1987

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B.S.; M.B.A., Ph.D., University of Georgia, 1987

BLENKHORN, GEORGE H., Associate Director (Facilities Planning), 1977
B.S., M.A., University of Florida, 1954, P.E.

BLOCH, SYLVAN C., Professor (Physics), 1963
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B.A., M.A., M.A., Southern Illinois University, 1974

BLOUNT, WILLIAM R., Professor-Acting Chairperson (Criminology), 1968
B.A.; M.A., Ph.D., George Peabody College, 1969

BLUE, BARBARA A., Vice President (University Relations), 1984
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BOATWRIGHT, EARL W., JR., Assistant Professor (Marketing), 1982
B.S.; M.A.; Ph.D., University of Arkansas, 1963

BOCHNER, ARTHUR P., Professor-Chairperson (Communication), 1984
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BOGS, ROY A., Associate Professor (Information Systems and Decision Sciences), 1985 Ft. Myers Campus
B.S.; M.A., M.F.S., New York University, 1977

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

BONDI, JOSEPH C., JR., Professor (Educational Leadership Education), 1965

BONESTEEL, DIANA S., Resident Advisor to Students (University Housing, Student Affairs), 1988
B.A., M.A., Tufts University, 1988

BORISOV, KONSTATIN, Visiting Assistant In (Pediatrics), 1988
B.S.; M.D., Second Medical Institute, 1985

BORKOWSKI, FRANCIS T., President, 1988
B.S.; M.M.; Ph.D., West Virginia University, 1967

BOSEK, VOJTECH, Assistant Professor (Anesthesiology), 1987 (Part Time)
M.D., University of Prague, 1966

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

BOUDREAU, CHARLES A., Associate Director (Financial Aids, Student Affairs), 1986
B.S., M.A., University of Illinois, 1972

BOUIS, 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, MARY L., Coordinator Student Affairs (University Center, Student Services), 1987
B.S.; M.S., Florida State University, 1963

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

BOWYER, 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

BOYD, FELECIA R., Visiting Instructor (Psychiatry), 1986 (Part Time)
B.S., University of South Carolina, 1966

BOYD, HERBERT F., Professor (Exceptional Child Education), 1965
B.S.; M.S., University of Cincinnati, 1962

BOYD, H. RALPH, Associate Professor (Physics), 1964
B.S., M.S., University of Illinois, 1958

BOYD, L. ARLAI, Academic Administrator (Child and Family Studies, FMHI), 1981
B.A.; M.Div.; M.Ed.; Ph.D., Temple University, 1978

BOYD, SARAH E., Associate Professor (Nursing), 1977
B.N.; B.S.; M.S.; M.P.S., Long Island University, 1977

BRADFORD, CHARLES R., Computer Software Specialist (University Computing Services), 1984
B.S., University of West Florida, 1977

BRADHAM, DOUGLAS D., Assistant Professor (Public Health), 1985

BRADY, PATRICK G., Professor (Internal Medicine), 1978
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BRAMAN, ROBERT S., Professor (Chemistry), 1967
B.S.; Ph.D., Northwestern University, 1966

BRAMAN, ROBERT S., Jr., Head Athletic Coach (Intercollegiate Athletics), 1987
B.S., University of Florida, 1980

BRAMES, HERMAN J., Assistant Director, Continuing Education St. Petersburg Campus, 1964
B.S., M.S., Indiana State University, 1964

BRAMSON, ROBERT T., Associate Professor (Radiology), 1985 (Part time)
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BRAND, FERTIE A., Budget Analyst (Public Health), 1972
B.B.A., Tampa Business College, 1962

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BRANDMEYER, GERARD A., Associate Professor (Sociology), 1969
B.S.; M.A., Ph.D., University of California, Los Angeles, 1962

BRANDMEYER, SUNNE, Lecturer (Economics), 1965
B.A.; M.A., University of South Florida, 1978

BRANNICK, MICHAEL T., Assistant Professor (Psychology), 1986
B.A.; M.A., Ph.D., Bowling Green State University, 1986

BRAY, LLOYD J., JR., Coordinator (Fine Arts Events), 1973
B.A., M.A., University of North Carolina, 1985

BREIT, ETTA B., Assistant Professor (Interdisciplinary Social Science), 1974
B.S.; M.A., Ph.D., University of Pennsylvania, 1984

BREIT, FRANK D., Associate Professor (Computers in Education), 1968
B.A., M.Ed., Ph.D., University of Texas, 1968

BREWER, FRANCES J., Assistant Professor (American Studies), 1987,
B.A.; M.A., M.A., Ph.D., Brown University, 1987

BRIDGES, VIRGINIA A., Associate Dean-Professor (Music Education), 1964
B.M.Ed., M.A., Ph.D., Ohio State University, 1965

BRIDGES, WINSTON T., Jr., Associate Professor-Coordinator (Psychological and Social Foundations Education), 1970 St. Petersburg Campus
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BRINSON, SABRINA A., Assistant In Research (Child and Family Studies, FMHI), 1988
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BRISCOE, DIANE B., Assistant Professor (Adult Vocational Education), 1988
B.S.; M.Ed.; M.M.Ed., Ed.D., Ph.D., Florida State University, 1982

BRISCOE, RICHARD V., Assistant Professor (Administration, FMHI), 1964
B.S.; M.S., Florida State University, 1983

BROER, LAWRENCE R., Professor (English), 1965
B.S., M.A., Ph.D., Bowling Green State University, 1968

BROMLEY, MAX L., Associate Director (Public Safety), 1981
B.S.; M.S., Florida State University, 1973

BROOKER, H. RALPH, Associate Professor (Physics), 1964
B.S., M.S., Ph.D., University of Florida, 1962

BROOKS, STUART M., Professor-Chairperson (Public Health), 1986
B.S., M.D., University of Cincinnati, 1962

BROSCH, GARY L., Director (Civil Engineering and Mechanics), 1988
B.S.; M.S., Florida State University, 1973

BROUSSARD, RICKEY J., Assistant Athletic Coach (Intercollegiate Athletics), 1966
B.S., M.Ed., University of Southwestern Louisiana, 1972

BROWN, H. KEITH, Associate Professor (Anatomy), 1974
B.S.; M.S.; Ph.D., Tulane University, 1974

BROWN, JANE H., Assistant In Research (Pediatrics), 1986
B.S.N., University of South Florida, 1979

BROWN, JEFFREY E., Assistant In Research (Florida Institute of Oceanography), 1987
B.S.; M.S., University of South Florida, 1987

BROWN, JOHN L., Regents Professor (Engineering) (Physiology and Biophysics), 1977
B.S.E.E.; M.A.; Ph.D., Columbia University, 1952 (President Emeritus, 1988)

BROWN, KAREN F., Assistant Professor (Mass Communications), 1985
B.A.; M.S.; Ph.D., University of Tennessee, 1962

BROWN, ROBERT B., Lecturer (Finance), 1981 St. Petersburg Campus
A.B.; M.B.A; D.B.A, Indiana University, 1953

BROWNLEE, HARRISON J., Associate Professor - Program Director (Family Medicine), 1983 (Part time)
B.A.; M.D., SUNY Upstate Medical Center, 1976

BROZEN, STEPHEN J., Visiting Assistant Professor (Internal Medicine), 1988 (Part Time)
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BRUCE, RITA G., Assistant Dean-Associate Professor (Public Health), 1970
B.S., M.S., Ed.D, West Virginia University, 1985

BRUOLLOTE, GAETAN, Visiting Professor (Languages), 1987

BRUNEL, G., Visiting Assistant Professor (Internal Medicine), 1987
B.A., B.A.; Ed.D., University of Florida, 1976

BRYANT, ALMA G., Assistant Professor-Associate Chairperson (English), 1972
B.S., M.A.; Ed.D., University of Florida, 1976

BRYANT, MARGARET W., Assistant In (Anatomy), 1981
B.S.; M.S., University of Georgia, 1973

BUCHANAN, JANICE C., Assistant Professor (Music), 1984 St. Petersburg Campus
B. Mus. Ed.; M.A., University of South Florida, 1973

BUCKLE, KENNETH A., Assistant Professor (Electrical Engineering), 1984
B.E.E.; M.S., Ph.D., University of Wisconsin, 1984

BUCKLEY, ARTHUR R., Assistant Professor (Pharmacology and Therapeutics), 1988
B.S., M.S.; Ph.D., University of Arizona, 1986

BUENO, EDGAR M., Assistant Professor (Psychiatry), 1973
M.D., University of San Marcos, Lima, Peru, 1965

BUFFINGTON, RICHARD G., Academic Administrator (Engineering), 1984
B.A., B.B.A., University of South Florida, 1978

BUGNI, WILLIAM J., Visiting Assistant Professor (Internal Medicine), 1988
B.S.; M.D., University of Chicago, 1972

BUKANTZ, SAMUEL, Professor (Internal Medicine), 1972
B.S.; M.D., New York University College of Medicine, 1934

BULLOCK, DONNA S., Visiting Associate Professor (College Administration, Education), 1984
B.A., M.A., Ph.D., New York University, 1977

BULLOCK, JOHN T., Professor-Chairperson (Contents Specialization, Education), 1966

BULLASH, SAMUEL B., Associate Professor (Finance), 1985
B.A.; M.B.A, Ph.D., Northwestern University, 1981

BULNES, REINALDO, University Physical Planner Consultant (Facilities Planning), 1987
B.S.; M.A., University of Florida, 1982

BUNCH, WILTON H., Dean-Professor (Medicine), 1988
B.S.; M.D.; Ph.D., University of Minnesota, 1967

BUMBANO, CHERYL M., Continuing Education Coordinator (Life Long Learning), 1963
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BURDICK, GLENN A., Professor-Director (Engineering), 1965 (Dean Emeritus)
B.S.; M.S., Ph.D., Massachusetts Institute of Technology, 1961
BURGESS, BRYAN S., General Counsel (Office of the General Counsel), 1979
B.A.; J.D., University of Florida, 1978
BURKHALTER, S. BRIAN, Assistant Professor (Anthropology), 1984
B.A., M.A., Ph.D., Columbia University, 1982
BURLEY, W. WADE, Professor (Psychological and Social Foundations Education), 1966
B.A.; M.Ed., Ph.D., University of North Carolina, 1970
BURNS, CANDACE M., Associate Professor (Nursing), 1977
B.S.N.; M.S., Ph.D., University of Michigan, 1980
BURR, DIANE W., Assistant Professor (Aging and Mental Health, FMHI), 1966
B.A.; M.A., M.A., University of South Florida, 1984
BURTON, CARMEN S., Counselor/Advisor (Dean's Office, Arts & Letters), 1979
B.S.; M.A., Ph.D., University of South Florida, 1984
BUSOT, J. CARLOS, Professor-Chairperson (Chemical Engineering), 1970
B.S.; M.S., M.D., University of Florida, 1970
BUSSMAN, JOHN F., Associate Professor (Accounting), 1977
BUSTA, JOSEPH F., JR., Vice President (Development and Alumni Affairs), 1971
B.S.; M.S.; Ph.D., University of Florida, 1978
BYERS, PATRICIA H., Visiting Associate Professor (Nursing), 1985 (Part time)
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BYRNE, ROBERT H., JR., Professor (Marine Science), 1977 St. Petersburg Campus
B.S.; M.S.; M.A., Ph.D., University of Rhode Island, 1974
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CAFLISCH, JACOB C., III, Associate Professor (Languages), 1970
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CAHILL, DAVID W., Associate Professor (Surgery), 1983
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CAIRL, RICHARD E., Assistant Professor (Suncoast Gerontology Center), 1981
B.A.; M.S., Ph.D., Florida State University, 1980
CALANDRA, DENIS, Professor (Theatre), 1978
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CALLAHAN, KATHY J., Visiting Instructor (College Administration), 1987
B.S.; M.A., Ohio State University, 1978
CALLAHAN, SABRA M., Instructor (Accounting, 1979, St. Petersburg Campus
B.A.; M.Acc., University of South Florida, 1979, C.P.A., C.M.A.
CALLIARI, C. RAYMOND, Visiting Coordinator (Business Administration), 1988
CAMERON, DON F., Associate Professor (Anatomy), 1986
B.A.; M.S., Ph.D., Medical University of South Carolina, 1977
CAMERON, WM. BRUCE, Professor (Sociology), 1964
B.A.; M.A., Ph.D., University of Wisconsin, 1992
CAMP, JOHN B., Associate Professor-Program Director (Languages), 1964
B.M., M.M., Ph.D., Florida State University, 1964
CAMP, PAUL E., JR., University Librarian (University Libraries), 1972
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CAMPBELL, DORIS W., Assistant Professor (Nursing), 1981
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CAMPBELL, SCOTT W., Assistant Professor (Chemical Engineering), 1986
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CARPENS, ALFONSO, Assistant Professor (Pediatrics), 1982
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CANTOR, ROGER G., Associate Professor (Adult and Vocational Education), 1983
B.S.; M.Ed., Rutgers University, 1975
CAPPAS, CLEON W., Professor (Languages), 1970
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CARBONELL, FRIEDA W., Professor (Nursing), 1973
CARD, GEORGE R., Academic Administrator (Engineering), 1970
B.S., M.Ed., University of South Florida, 1971
CARIDERI, EDWARD J., Head Athletic Coach (Intercollegiate Athletics), 1983
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CAREY, LOU M., Associate Professor (Educational Measurement and Research), 1980
B.S.; M.A.; M.D., Florida State University, 1976
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CARLAN, STEPHEN J., Instructor (Obstetrics and Gynecology), 1988
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CARLSON, REBEKAH L., Instructor (Communication Sciences and Disorders), 1968
B.S.; M.S., University of South Florida, 1970
CARNANAH, ROBERT P., Associate Professor (Civil Engineering and Mechanics), 1980
B.C.E.; M.S.S.E.; Ph.D., Clemson University, 1973, P.E.
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B.A.; M.S.; Ph.D., University of Nebraska, 1979
CARRINGTON, WILLIAM C., Professor (Civil Engineering and Mechanics), 1976
B.S.C.E., Ph.D., North Carolina State University, 1966, P.E.
CARR, DAVID R., Assistant Professor (History), 1971 St. Petersburg Campus
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CARRASCO, MAGDALENA E., Associate Professor (Humanities), New College of USF, 1977 Sarasota Campus
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CARROLL, DELOS L., JR., Associate Professor (Psychological and Social Foundations Education), 1969
CASEY, SELDON L., Director (Environmental Health and Safety), 1984
B.S.; M.S.E.H., East Tennessee State University, 1972
CARTIDGE, JACK E., Associate Professor (Humanities), New College of USF, 1977 Sarasota Campus
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CARVER, JANE D., Associate In (Pediatrics), 1981
B.S.; M.S., Florida State University, 1982
CASSEDAY, DANIEL, Associate Director of Information & Publications Services (University Relations), 1984
B.S., Bowling Green University, 1974
CASELLA, DONNA G., Assistant in Research (Child and Family Service, FMHI), 1981
B.S.; M.A., M.Ed., University of Colorado, 1944
CATANZARITE, FRANK J., Associate Director (Physical Plant Administration), 1967
B.S.M.E.; M.B.A., Florida Southern College, 1985
CAVANAGH, DENIS, Professor (Obstetrics and Gynecology), 1977
M.B., Ch.B., University of Glasgow, 1952
CEBULSKI, JAMES C., Counselor/Advisor (Academic Services, Undergraduate Studies), 1982
B.S.Ed., M.A., Kent State University, 1967
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GUTKE, KENNETH A., Associate Professor (Orthopaedic Surgery), 1989
B.S., M.D., Wayne State University School of Medicine, 1976

GUTIERREZ-MAYKA, MARCELA, Assistant In Research (Suncoast Gerontology Center), 1988
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HACKNEY, JOHN F., Associate Professor (Pharmacology), 1974
B.A.; Ph.D, Stanford University, 1972

HADDEN, ELBA M., Assistant Professor (Pharmacology and Therapeutics), 1982
B.S., M.S., Ph.D, Yale University 1967

HADDEN, JOHN W., Professor (Internal Medicine), 1982
B.A.; M.D, Columbia College of Physicians and Surgeons, 1965

HAILSTONES, THOMAS J., Visiting Lecturer (Economics), 1988
B.A.; B.S.; M.A.; Ph.D; St. Louis University, 1951

HAMES, STANLEY C., Assistant Professor (Family Medicine), 1982 (Part Time)
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HAKANSON, CARL M., Assistant Professor (Surgery), 1983
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HALDER, NARAYAN C., Professor (Physics), 1972
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HALL, BRUCE W., Professor (Measurement and Research Education), 1969
B.S., M.S., Ed.D, Florida State University, 1969

HALL, LAWRENCE O., Assistant Professor (Computer Science and Engineering), 1986
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HALL, NICHOLAS, Visiting Associate Professor (Psychiatry and Behavioral Medicine), 1988
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HALL, ROBERT E., Associate Professor (English), 1970, St. Petersburg
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HALL, W. DIANE, Associate Professor (Professional Physical Education, Education), 1976
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HALSTED, JAMES B., Associate Professor (Criminology), 1986
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HAMMOND, MICHAEL D., Visiting Assistant Professor (Aerospace Engineering), 1986

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HAMPTON, WARREN R., Associate Professor (Languages), 1969
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HANCOCK, TINA U., Associate Professor (Social Work), 1982
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HANCOCK, RONALD D., University Physical Planning Consultant/Academic Administrator (Facilities Planning), 1984

HANLEY, PATRICIA E., Associate Professor (Childhood Education), 1981
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HANN, ELA A., Associate Professor (Economics), 1970
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HANSEN, ROY A., Associate Professor (Sociology), 1969
B.A., M.A., Ph.D, University of California, Los Angeles, 1967

HARDY, MILES W., Professor (Psychology), 1960
B.S.; M.S., Ph.D, Florida State University, 1980
HARGIS, EDDYTH N., Lecturer (South Florida), 1980
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HARKNESS, DONALD R., Professor (American Studies), 1960
B.A., M.A., Ph.D., University of Miami, 1964

HARKNESS, MARY LOU, University Librarian (University Libraries), 1958 (Director Emeritus)
B.A., B.A.L.S., M.S., Columbia University, 1958

HARMON, MARY HELEN C., Associate Professor (English), 1964
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HARPER, HILARY Q., Visiting Assistant Professor (Criminal Justice), 1987
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HARRIGAN, MICHAEL P., Lecturer (Graphic Studio, Academic Affairs), 1985

HARRINGTON, THOMAS C., Assistant Professor (Information Systems Management), 1987, Fort Myers Campus
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HELDEN, JOHN, Professor-Head/University

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HIGGINS, PAUL J., Instructor (Computer Science and Engineering), 1986,
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HILBELINK, DON R., Associate Professor (Anatomy), 1980
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HILL, RAYMOND, Associate Professor (Adult and Vocational Education), 1971
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HINE, ALBERT C., Professor (Marine Science), 1979, St. Petersburg
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HINES, CONSTANCE V., Associate Professor (Educational Measurement
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HOMAN, SUSAN P., Associate Professor (Childhood Education), 1978
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HONKER, H. ANDREW, Associate Professor - Director (Physical Education,
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B.S.; M.S., University of Illinois, 1965

HOOKS, KAREN L., Associate Professor (Accounting), 1979
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HOOPER, ROBERT J., Associate Professor (Geology), 1984
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HOPKINS, THOMAS L., Professor-Associate Chairperson (Marine
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Computer Services), 1968
B.S.; M.A., Ph.D., University Southern Mississippi, 1984

HUBBELL, DAVID S., Associate Professor (Surgery), 1984
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HUDSON, MICHAEL C., Systems Coordinator (Fiscal Services and
Budget, Medicine), 1976
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HUFNAGEL, ELLEN M., Assistant Professor (Information Systems and
Decision Sciences), 1988
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HUG, WILLIAM G., Professor (Dance), 1969
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HUGHES, PATRICK H., Visiting Associate Professor (Psychiatry), 1968
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HULBARY, WILLIAM E., Associate Professor (Political Science), 1976
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HUNT, JOHN J., Associate Professor (Educational Leadership), 1985
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HUNTER, ERIC D., Assistant Director (Physical Education Facilities and
Administration, Student Affairs), 1987
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HUSAIN, SJALF, Assistant Professor (Health Services, FMHI),
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M.B.; B.S., M.S., University, Baroda, India, 1967

HUTCHCRAFT, GILBERT R., Assistant Dean-Associate Professor (Education Measurements and Research), 1977, Ft. Myers Campus
A.B., M.S., Ed.D., Indiana University, 1970

HUTCHISON, WILLIAM S., Jr., Associate Professor (Social Work), 1977
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HVIZDALA, EVA V., Associate Professor (Pediatrics), 1978
M.D., Charles University School of Medicine, Prague, Czechoslovakia,
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IERARDO, DOMENICK, Professor (Languages), 1970
B.A.; M.A., Ph.D., New York University, 1974

INGALLS, ROBERT P., Associate Professor (History), 1974
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INGRAM, CATHY Y., Coordinator Student Affairs (University Center,
Student Affairs), 1967
B.B.A., Florida Atlantic University, 1974

INGRAM, JAMES M., Professor (Obstetrics and Gynecology), 1971
M.D., Duke University, 1943
<table>
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<th>Name</th>
<th>Title/Position</th>
<th>Institution</th>
<th>Years/Details</th>
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<tr>
<td>KEENE, T. WAYNE</td>
<td>Associate Professor</td>
<td>1971 St. Petersburg Campus</td>
<td>B.A., M.A., Ph.D., Florida State University, 1970</td>
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<td>KARL, RICHARD C.</td>
<td>Professor (Cancer Education)</td>
<td>1983</td>
<td>M.D., Cornell University Medical School, 1983</td>
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<td>KARLINS, MARVIN</td>
<td>Professor (Management)</td>
<td>1974</td>
<td>B.A.; M.A., Ph.D., Princeton University, 1966</td>
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<td>KARMAN, RICHARD</td>
<td>Visiting Associate Professor (Pediatrics)</td>
<td>1981</td>
<td>M.D., University of Kansas Medical Center, 1976</td>
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<td>KARR, LEE T.</td>
<td>Associate Professor (Educational Leadership, Education)</td>
<td>1986</td>
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<td>KARP, JOSEPH P.</td>
<td>University Budget Officer (University Budgets)</td>
<td>1974</td>
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<td>KARST, ARTHUR E. J.</td>
<td>Associate In (Engineering)</td>
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<td>KARTSOTOS, ATHANASSIO G.</td>
<td>Professor (Mathematics)</td>
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<td>KASAN, E. LEE</td>
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<td>KASE-POLISINI, JUDITH B.</td>
<td>Professor (Content Specializations, Education)</td>
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<td>KASTEN, WENDY C.</td>
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<td>KATZ, ELAINE F.</td>
<td>Assistant Professor (Mass Communications)</td>
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<td>KATZ, MARC W.</td>
<td>Assistant Professor (Dance)</td>
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<td>KATZ, NATHAN</td>
<td>Associate Professor (Religious Studies)</td>
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<td>KATZENMEYER, WILLIAM G.</td>
<td>Dean-Professor (Education)</td>
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<td>KAUB, ALAN R.</td>
<td>Associate Professor (Civil Engineering and Mechanics)</td>
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<td>B.S.C.E., M.S.C.E., Ph.D., University of Wisconsin, 1987</td>
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<td>KAUFMAN, RONALD P.</td>
<td>Vice President, Health Sciences - Professor, (Internal Medicine)</td>
<td>1987</td>
<td>B.S.; M.D., University of Pennsylvania School of Medicine, 1955</td>
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<td>KAUFMANN, DONALD L.</td>
<td>Professor (English)</td>
<td>1968</td>
<td>B.A., M.L., Ph.D., University of Iowa, 1968</td>
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<td>KAW, AUTAR K.</td>
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<td>KAY, CHRISTOPHER J.</td>
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<td>KAYWELL, JOAN F.</td>
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<td>KAZAKS, PETER A.</td>
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<tr>
<td>KAZANIS, BARBARA W.</td>
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<td>KEARN, KEVIN E.</td>
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<td>KEARN, ROBERT E.</td>
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<td>KEARN, ROSE T.</td>
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<td>KEENE, T. WAYNE</td>
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<td>KEESECKER, JEFFREY S.</td>
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<td>KEETH, JOHN E.</td>
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<td>KEITH, ROBERT M.</td>
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<td>KELLER, DONALD M.</td>
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<td>KELLER, RONALD K.</td>
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<td>KELLEY, ANNE E.</td>
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<td>KELLY, TERRY M.</td>
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<td>KEMP, PATRICIA, Specialist, Radio/TV (Educational Resources)</td>
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<tr>
<td>KETCHERISD, ARTHUR L.</td>
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<tr>
<td>KILLENBERG, GEORGE M.</td>
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<td>B.S., St. Petersburg Campus</td>
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<tr>
<td>KINCADE, GEORGE H.</td>
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<td>KINDER, BILLY N.</td>
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<td>KING, DEBRA A.</td>
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<td>KING, IMOGENE M.</td>
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<td>KING, PATRICIA S.</td>
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</table>
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LAWRENCE, JOHN M., Professor (Biology), 1965

B.S., A.M., Ph.D., Stanford University, 1966

LAWNS, D. RICHARD, Professor (Crime and Delinquency, FMHI), 1985

B.A.; M.A., Ph.D., Southern Illinois University, 1969

LAWSON, STEVEN F., Professor (History), 1972

B.A.; M.A., Ph.D., Columbia University, 1974

LAX, BERNARD Professor (Exceptional Child Education), 1979

B.A., M.A., Ph.D., University of Texas, 1970

LAYDEN, WILLIAM E., Professor-Chairperson (Ophthalmology), 1972

B.A.; M.D., University of Vermont, 1963

LAYMAN, JAY S., Director (Medical Student Affairs), 1971

B.S., Florida State University, 1968

LEACH, LORETTA, Assistant In (Pediatrics), 1987

B.A., University of South Florida, 1977

LEADENGOOD, LEE B., Director (Continuing Education), 1973

B.S.; M.A., University of South Florida, 1973

LEAVERTON, PAUL E., Professor-Chairperson (Public Health), 1985

B.S., M.S., Ph.D., Iowa State University, 1983

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B.Ch.E.; M.D., University of Tennessee, 1978

LEE, LEE, ASSOCIATE PROFESSOR (THEATRE), 1982

B.S.; M.A., West Virginia University, 1978

LEE, SUNG JAE, Professor (Mathematics), 1981

B.S.; M.A.; Ph.D., McMaster University, Canada, 1972

LEE, WILLIAM E. III, Assistant Professor (Chemical Engineering), 1984

B.S.; M.S.; Ph.D., University of Cincinnati, 1984

LEE, ROBERT L. JR., Lecturer (Business Administration), 1982

B.A.; M.B.A., Wharton School, University of Pennsylvania, 1953

LEFFERS, DAVID, Assistant Professor (Orthopaedic Surgery), 1984

B.A.; M.D., University of Tennessee, 1978

LEIGHTON, JAMES T., Assistant Professor (Electrical Engineering), 1985

B.S.E.E., M.S.E.E.; Ph.D., University of South Florida, 1985

LEHTOMAA, KIRK, Director, Radio/TV Station (Television), 1987, Fort Myers Campus

B.S., Bowling Green State University, 1973

LEIBOWITZ, ALAN I., Associate Dean (Student Affairs, Associate Professor (Internal Medicine), 1979

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B.S.N.; M.S.N., Ph.D., Marquette University, 1983

LENKER, LAGRETTE T., Continuing Education Coordinator (Extended Studies), 1984

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LENTZ, GLENDA F., Director, (Career Development Services, Career, Resource Center), 1968

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LEONARD, GERALD M., Coordinator, Advancement/Alumni Affairs (Educational Resources) 1988

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B.A.; M.A.; M.A.L.S., Rosary College, 1971

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B.A.; M.S.Ed.; M.L.I., Emory University, 1983

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B.A.; M.P.H.; D.Sc., Johns Hopkins School of Hygiene and Public Health, 1969

LEVINE, EDWARD L., Professor-Associate Chairperson (Psychology), 1977

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LEVY, ARTHUR B., Associate Professor (Political Science), 1970

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LEVY, CHARLENE C., Associate Professor-Chairperson (Social Sciences), New College of USF, 1975 Sarasota Campus

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LEWIS, EUGENE Professor (Social Sciences), New College of USF, 1978 Sarasota Campus

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LEWIS, MICHAEL T., Acting Coordinator, Advancement/Alumni Affairs, (Athletics, Student Affairs), 1987

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LEWIS-CAMPBELL, WANDA, Associate Dean, Student Affairs, 1980

B.A.; M.S.W., University of Connecticut School of Social Work, 1978

LIANG, DIANE F., University Librarian (University Libraries), 1972

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MALICK, M., Assistant Professor (Otorhinolaryngology) , 1983
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MALONE, JOHN I., Professor (Physics), 1972
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MALONEY, MARY A., Visiting Assistant In (Education), 1988
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MANSFIELD, PETER, Professor (Nursing), 1987
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MANN, MARCIA L., Assistant Professor (Chemistry), 1976
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MANNOUGIAN, MANOUG, Professor (Neurology), 1987
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MARTIN, MARSH, Bruce, Associate Professor (Surgery), 1978
MARTIN, MARSHALL, Associate Professor (Surgery), 1987
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MARTIN, MARVIN, Associate Professor (Clinical Pharmacology), 1985
B.S.; M.D., University of Texas, 1985
MARTIN, NANCY C., Associate Professor (Surgery), 1983
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MASON, FRANK T., Assistant Professor (English), 1969
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LYMAN, CHARLES P., Professor (Visual Arts), 1972
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LYMAN, GARY H., Professor (Internal Medicine), 1977
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MAC DONALD, GWENDOLINE R., Professor (Nursing), 1973
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MAKEN, DAVID G., Visiting Assistant Professor (Psychiatry), 1988
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MALONE, JOHN I., Professor (Pediatrics), 1972
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MARTIN, NANCY C., Associate Professor (Surgery), 1983
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MARTIN, PATRICK A., Associate Professor (Surgery), 1987
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MASON, FRANK T., Assistant Professor (English), 1969
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LYMAN, CHARLES P., Professor (Visual Arts), 1972
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LYMAN, GARY H., Professor (Internal Medicine), 1977
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MILLER, JAMES D., Assistant Department Head/University Librarian (University Libraries), 1974
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MICHAEHS, CHARLES E., Assistant Professor (Management), 1983
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MIEZJEWSKI, EDWARD A., Assistant in Research (Civil Engineering, and Mechanics), 1988
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MILANI, MOHSEN, Assistant Professor (Political Science), 1987
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MILES, STEPHEN T., Instructor (Humanities), New College of USF, 1988, Sarasota Campus
B.M., M.M., University of Illinois, 1987
MILHAN, RANDALL J., Budget Analyst (University Budgets), 1985
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MILLER, ARTHUR Mca., Professor (Humanities), New College of USF, 1975 Sarasota Campus
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MILLER, DAVID, Associate Professor (Surgery), 1988
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MILLER, GREGORY L., Instructor-Program Director (Economic and Research Center), 1987
B.S., M.S., Florida State University, 1980
MILLER, JAY P., Head Athletic Coach (Intercollegiate Athletics, Student Affairs), 1987
B.S., M.Ed., Eastern Stroudsburg University, 1978
MILLER, JONATHAN E., Continuing Education Coordinator (Environmental Studies) New College of USF, 1984 Sarasota Campus (Part time)
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MILLER, KAREN L., Associate In (Pediatrics), 1975
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B.S.; M.A., North Carolina Central University, 1975
MILLER, MARGARET A., Professor-Director (Visual Arts), 1970
B.A.; M.A., University of Hawaii, 1970
MILLER, RONALD E., Systems Coordinator (University Computer Services) 1970
MILLER, SHARON G., Assistant Professor (Psychiatry), 1979
B.A.; M.S.W., Carleton University, 1974
MILLER, SUSAN M., Visiting Assistant Professor (Orthopaedic Surgery) 1986
B.S.; M.S.; M.D., University of Maryland, 1978
MILLER, THOMAS L., Assistant in Research (Civil Engineering and Mechanics), 1988
B.S.Ed.; M.Ed.; Ph.D., Michigan State University, 1978
MILLER, VICKIE S., Coordinator (Student Affairs), 1988 Sarasota Campus
B.B.A., College of St. Francis, 1982
MILLER, WILLIAM A., Assistant Professor (Industrial and Management, System Engineering), 1987
B.S.M.E.T., M.Ed., M.S.I.E., Ph.D., Clemson University, 1987
MILLIKEN, DEAN M., Associate Director - Instructor (Florida Institute of Oceanography), 1973 St. Petersburg Campus
A.B.; M.A., University of South Florida, 1975
MITANI, MASAMITSU, Associate in Research (Pediatrics), 1986 St. Petersburg Campus
M.D., Ph.D., Kyushu University, Japan, 1985
MITCHELL, SUSAN M., Director (Resource Analysis and Planning), 1982
B.A.; M.P.A., Fairleigh Dickinson University, 1976
MITCHELL, MOZELLA G., Associate Professor (Religious Studies), 1981
A.B.; M.A.; M.A., Ph.D., Emory University, 1980
MITCHELL, VICKI L., Coordinator, Advancement/Alumni Affairs, (Development/Alumni Affairs), 1987
B.A., Florida State University, 1986
MÖCKER, BRIAN M., Associate Director for Administrative Services, (Student Health Services, Student Affairs), 1985
MODROW, WILLIAM G., Assistant Professor (Finance), 1963
B.A., M.S., Texas A & M University, 1963
MOFFITT, KAREN A., Visiting Assistant Professor (Psychiatry), 1983
B.A., M.A., Ph.D., University of South Florida, 1982
MOHNEY, DAVID A., Assistant In (Educational Leadership and Higher Education), 1970
B.A., Anderson College, 1961
MOLTENO, CHRISTOPHER D., Visiting Assistant Professor (Pediatrics), 1988
MONROE, ANNETTA Y., Associate Professor (Music Arts), 1973
B.M., Oberlin College Conservatory of Music, 1982
MONTENEGRO, RAUL, Visiting Assistant Professor (Obstetrics and Gynecology), 1982
M.D., San Carlos University Medical School, 1971
MOON, JAMES E., Associate Professor (Accounting), 1983
B.S., M.A., Ph.D., University of Alabama, 1970
MOONEYHAN, ESTHER L., Visiting Assistant Professor (Nursing), 1988
B.S., M.S.N. Ed., Ed.D., Indiana University, 1983
MOORE, DONNA S., Coordinator, Student Affairs (Student Publications, Student Affairs), 1987
B.A., University of South Florida, 1980
MOORE, HARVEY A., Associate Professor (Sociology), 1974
B.A.; M.A.; M.S., Florida State University, 1972
MOORE, JACK B., Professor-Chairperson (American Studies), 1962
B.A.; M.A.; Ph.D., University of North Carolina, 1963
MOORE, JAMES A., Assistant Professor (Graduate Architecture Program), 1988
B.S., M.S., M.S., Ph.D., University of Pennsylvania, 1987
MOORE, JOHN D., Associate Professor - Chairperson (Humanities), New College of USF, 1980 Sarasota Campus
A.B.; A.M., Ph.D., Stanford University, 1969
MOORE, JUDY Visiting Assistant (College Administration, Education), 1985
MOORE, STEPHEN B., Instructor (Information Systems and Decision Sciences), 1976
B.A., M.B.A., University of South Florida, 1978
MOORE, JOHN B., Visiting Assistant Professor (Music), 1987
B.A., M.S., University of South Florida, 1982
MOREHOUSE, LAWRENCE Instructor (Political Science), 1985
B.A.; M.A., Cornell University, 1960
MOREL, JORGE G., Assistant Professor (Public Health), 1987
B.A.; M.S., University of North Carolina, 1987
MORGAN, DENISE L., Assistant in Research (Pediatrics), 1984
B.A.; M.S., University of South Florida, 1982
MORLEY, ROSEMARY M., Assistant Dean-Instructor (Undergraduate Affairs, Natural Sciences), 1973
B.A.; M.S., Ed.S., Ph.D., University of Florida, 1979
MORMINO, GARY R., Professor (History), 1977
B.A.; M.A., Ph.D., University of North Carolina, 1977
MORRILL, JOHN B., Professor (Natural Sciences), New College of USF, 1975 Sarasota Campus
B.A.; M.S., Ph.D., Florida State University, 1958
MORRIS, BEULAH M., Assistant Department Head/Assistant University Librarian (University Libraries), 1975 Sarasota Campus
MORRIS, JULIE K., Continuing Education Coordinator (Environmental Studies), New College of USF, 1984 Sarasota Campus (Part time)
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MORRIS, MICHAEL J., Assistant In Research (Engineering), 1986
B.S.; M.S., University of South Florida, 1982
MORRIS, WILLIAM E., Professor (English), 1964
B.A.; M.A., Ph.D., University of North Carolina, 1957
MORSE, STEVEN S., Associate Professor (Radiology), 1988 (Part Time)
M.D., State University of New York Downstate Medical Center, 1977
MOSCINSKI, LYNN C., Assistant Professor (Pathology), 1988
B.S., M.D., University of Wisconsin, Milwaukee, 1981
MOTTA, PHILIP J., Assistant Professor (Biology), 1987
B.S.; Ph.D., University of Hawaii, 1980
NOVAK, DONALD A., Visiting Assistant Professor (Pediatrics), 1987  
B.S.; M.D., University of South Florida, 1981
NOVAK, GAIL M., Assistant Department Head/Associate University,  
Librarian (Library), 1987 Sarasota Campus  
B.A.; M.L.S., University of South Florida, 1980
NYBERG, TERRY C., Visiting Instructor - Program Director (Child and  
Family Studies, FMHI), 1985  
B.S.; M.A., West Virginia University, 1982
OBERHOER, SIGNE W., University Librarian (University Libraries),  
1974 St Petersburg Campus  
B.A.; M.L.S., M.B.A., University of South Florida, 1982
O'BRIEN, RUTH W., Assistant Professor (Nursing), 1982  
O'BRIEN, WILLIAM F., Professor (Obstetrics and Gynecology), 1983  
A.B.; M.D., New York University School of Medicine, 1974
OCHSHORN, JUDITH, Professor (Interdisciplinary Social Science), 1969  
B.A.; M.A., Ph.D., The Union Graduate School, 1978
OESTREICH, TERENCE M., Academic Administrator (Chemistry), 1966  
B.A.; Ph.D., University of Florida, 1973
OGDEN, JOHN A., Professor (Orthopaedic Surgery), 1984  
B.S.; M.D., Yale University, 1986
OGDEN, JOHN C., Director (Florida Institute of Oceanography), 1968,  
St. Petersburg Campus  
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OHAEBULAM, FESTUS U., Professor (Afro-American Studies), 1972  
B.A.; M.A., University of Denver, 1967
O'HARA, ROBERT C., Professor (Languages), 1961  
B.A., M.A., University of Louisville, 1953
OHERN, VIRGINIA S., Director (SUS Extension Library), St. Petersburg  
Campus, 1984  
B.A.; M.S.L.S., Simmons College Graduate School of Library Science, 1975
OLANOW, CHARLES W., Professor (Neurology), 1966  
M.D., University of Toronto, 1965
O'LINE, LARRY W., Professor (Civil Engineering and Mechanics), 1967  
B.A.; B.S.; M.S., Ph.D., Georgia Institute of Technology, 1968, P.E.
OLIVER, KATHLEEN, Business Manager (Sponsored Resource), 1977  
B.A., University of South Florida, 1976
OLSEN, EUGENE D., Professor (Chemistry), 1964  
B.S., Ph.D., University of Wisconsin, 1980
OLSON, GARY A., Associate Professor (English), 1985  
B.A.; M.A., Ph.D., Indiana University of Pennsylvania, 1980
OLSON, MARY W., Associate Professor-Chairperson (Childhood Educa-  
tion), 1987  
B.A.; M.Ed.; Ph.D., University of Texas, Austin, 1982
OLSSON, RAY A., Professor (Internal Medicine), 1976  
B.A.; M.D., George Washington University School of Medicine, 1956
O'MALLEY, REBECCA M., Associate Professor (Chemistry), 1976  
B.Sc., Ph.D., University of Sheffield, England, 1970
ORLOSKY, DONALD E., Professor-Chairperson (Educational Leader-  
ship, Education), 1969  
B.A.; M.S., Ed.D., Indiana University, 1959
Orr, MARK T., Professor-Director (Interdisciplinary Social Science),  
1966  
A.B.; Ph.D., University of North Carolina, 1954
ORRU, MARCO, Assistant Professor (Sociology), 1987  
M.A., Ph.D., University of California at Davis, 1984
ORTINAI, DAVID J., Associate Professor (Marketing), 1979  
B.S.; M.S.; Ph.D., Louisiana State University, 1979
OSBORN, CAMDICE A., Visiting Associate In (Crime and Delinquency,  
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B.A.; M.A., University of Southern Mississippi, 1974
OSBORN, JOHN C., Visiting Program Director (Adult & Vocational  
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B.A., University of South Florida, 1974
OSNES, PAMELA G., Visiting Assistant Professor (Child and Family  
Studies, FMHI), 1968  
B.S.; M.A., West Virginia University, 1981
O'SULLIVAN, PETER B., Professor (Theatre), 1963  
B.A., University of North Carolina, 1957
OTT, RUTH A., Coordinator (Academic Advising), 1975 Sarasota  
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OTTANELLI, M. FRASER, Visiting Assistant Professor (History), 1987  
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OWEN, CHARLES R., JR., Associate Professor (Music), 1981  
B.S.; M.A., California State University, 1979
OWEN, PETER T., CPT, Assistant Professor of Military Science,  
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Owen, TERENCE C., Professor (Chemistry), 1964  
B.S., Ph.D., University of Manchester, England, 1964
OWEN, WILLIAM D., Professor (Music Arts), 1964  
B.M.; M.M., North Texas State University, 1960
PACIGA, JUNE E., Assistant In (Pathology), 1978  
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PALLS, TERRY L., Associate Professor (Humanities), New College of  
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B.A.; M.A., Ph.D., University of Kansas, 1974
PALMIERI, NICHOLAS V., Visiting Instructor (Crime and Delinquency,  
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B.A.; M.Ed., Pennsylvania State University, 1976
PANACEK, LUANNE J., Instructor-Assistant Chairperson (Child and  
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PANTHER, EDWARD E., Professor (Counselor Education), 1969  
B.S., M.S., Ed.D., State University of New York at Buffalo, 1969
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1988  
B.S.; Ph.D., New York University, 1974
PAPPAS, GEORGE, Professor (Visual Arts), 1966  
B.S., M.A., Ed.D., Pennsylvania State University, 1957
PAPPAS, JAMES L., Dean-Professor (Business Administration), 1986  
B.S., M.S., Ph.D., University of California, Los Angeles, 1968
PARADISE, LOIS J., Associate Professor (Medical Microbiology), 1973  
B.S., M.S., Ph.D., University of Wisconsin, 1973
PAIS, FRANCIS M., Associate Director (Administration, FMHI), 1963  
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PARKER, KEITH A., Associate Professor (History), 1966  
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PARRINO, DONNA P., Associate University Librarian (University Librari-  
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PARROTT, MARY E., M.D., Professor (Mathematics), 1979  
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PARROTT, WILLIAM H., Associate Professor (Accounting), 1976  
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PASCHAL, ROBERT L., Head Athletic Coach (Intercollegiate Athletics),  
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PATEL, BHARAT U., Assistant Professor (Radiology), 1988  
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PATERSON, JAMES F., Assistant In (Pathology), 1978  
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PATRY, MATTHEW J., Coordinator, (Student Affairs), 1988  
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PAUL, JOHN H., Associate Professor (Marine Science Program), 1983  
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PAVAN, MARY H., Visiting Assistant Professor (Pediatrics), 1981 (Part  
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Pawlowski, ROBERT S., Professor (English), 1983  
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PUTNEY, MARTHA W., University Counseling Psychologist (Counseling Center for Human Development, Student Affairs), 1985
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RAO, PAPINENI S., Professor (Obstetrics/Gynecology), 1979
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RATINSKY, ALEXANDER, Professor-Director (Graduate Architecture Program), 1987
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READER, WILLIE D., Professor (English), 1963
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READING, ANTHONY J., Professor-Chairperson (Psychiatry), 1975
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REARICK, MARTHA N., Professor (Music Arts), 1963
B.M., M.M., University of Michigan, 1961

RECHTINE, GLENN R., Associate Professor (Orthopaedic Surgery), 1984
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REDWOOD, BARBARA A., Associate Professor (Nursing), 1975
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REED, JAMES H., Associate Professor (Mathematics), 1963
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REED, JAMES R., Counseling Psychologist (Counseling Center for Human Development, Student Affairs), 1988
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REED, JANE G., Counselor/Advisor (Academic Services), 1969
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REED, ROBERTA G., Radiation Control Officer (Environmental Health and Safety), 1987
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REILLY, J. TIM, Associate Professor (Criminology), 1985, St. Petersburg Campus
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REINTRE, DOUGLAS S., Assistant Professor (Surgery), 1987
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REJNIAK, LYNN M., Associate In (Engineering), 1987
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REMML, RANDALL J., Visiting Lecturer (Information Systems and Decision Sciences), 1985
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RICKER, JAMES C., Assistant Dean (Graduate School) Associate Professor (Public Administration), 1981
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Renne, Roger, Assistant Professor (Natural Sciences), New, College of USF, 1975 Sarasota Campus
B.A.; M.A., University of California, Berkeley, 1963

REYNOLDS, DAVID G., Professor - Director (Surgery), 1967
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REYNOLDS, JEROLD M., Associate Professor (Music Arts), 1966
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REYNOLDS, KENNETH L., Major, Assistant Professor of Aerospace Studies,

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RHODIN, JOHANNES A. G., Professor-Chairperson (Anatomy), 1979
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RIBAUDO, FRANKW., Director, Instructional Services (Health Sciences Learning Resource Center) 1987
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RICH, THOMAS A., Professor - Chairperson (Gerontology), 1961

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B.S.; M.S.; Ph.D., University of Michigan, 1953

RIGGS, CARL D., JR., Visiting Assistant Professor (Pediatrics), 1986
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RIGOS, PLATON, Assistant Professor (Psychology), 1986
M.A., University of Florida, 1987

RINGEL, ROBERT F., Director (Facilities Planning, Administrative Affairs), 1985
B.A.; M.A.; Ed.S., Central Michigan University, 1983

RISCILE, GISELE R., Assistant In (Pediatrics), 1968
B.A.; M.D., University of South Florida, 1984

RITCH, STEPHEN W., Director (Student Affairs), 1984 St. Petersburg Campus
B.A.; M.A.; Ph.D., University of Florida, 1979

RITTER, JUDITH A., Visiting Assistant In (College Administration, Education), 1987
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RITTERMAN, STUART I., Professor (Communication Sciences and Disorders), 1969
B.A.; Ph.D., Case Western Reserve University, 1968, C.C.C.

RIVARD, RICHARD J., Associate Professor (Finance), 1977
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RIVEAU, GILLES J., Research Scholar/Scientist (Pharmacology and Therapeutics), 1986
B.Sc., M.D., Curie University, Paris, 1984

ROBBINS, LISA L., Assistant Professor (Geology), 1988
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ROBERTS, CLEORA S., Assistant Professor (Social Work), 1987
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ROBERTS, RANDALJ., Counselor/Advisor (Student Personnel, Education), 1985
B.A.; M.A., University of South Florida, 1986

ROBERTS, STEPHEN A., Specialist, Computer Research (Resource Analysis, and Planning), 1983
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ROBERTS, WILLIAM S., Associate Professor (Obstetrics and Gynecology), 1982
B.A.; M.D., Washington University Medical School, 1976

ROBINSON, BRUCE E., Assistant Professor (Internal Medicine), 1981
B.S.; M.D., University of South Florida, 1975

ROBINSON, CLAIRE S., Associate Vice President (Administrative Affairs), 1966
B.A., University of South Florida, 1978
<table>
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<tr>
<th>Name</th>
<th>Position and Affiliation</th>
<th>Degree(s)</th>
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<td>ROBINSON, GERALD G.</td>
<td>Professor (Biology), 1960</td>
<td>B.S., Ph.D., University of Minnesota, 1960</td>
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<td>ROBINSON, JACK H.</td>
<td>Professor (Measurement and Research, Education), 1963</td>
<td>St. Petersburg Campus</td>
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<td>ROBINSON, SANDRA W.</td>
<td>Associate Professor (Dance), 1982</td>
<td>B.F.A., North Carolina School of the Arts, 1970</td>
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<td>ROBINSON, JOHN O.</td>
<td>Associate Professor (Music), 1977</td>
<td>B.A.; M.D.A., Stanford University, 1975</td>
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<td>ROCHELLE, DAVID B.</td>
<td>Director, University TV (Educational Resources), 1979</td>
<td>B.A., University of Houston, 1956</td>
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<td>ROCHELLE, JUDITH C.</td>
<td>Coordinator, University Relations (Vice President, Development/Alumni Affairs), 1988</td>
<td>B.A.; M.D., Johns Hopkins University, 1986</td>
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<td>ROMEO, JOHN T.</td>
<td>Professor (Biology), 1977</td>
<td>M.S., University of Texas at Austin, 1973</td>
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<td>RODRIGUEZ, DELMA</td>
<td>Assistant Director of Instructional Services, (Learning Technologies), 1978</td>
<td>B.A.; M.Ed., University of South Florida, 1978</td>
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<tr>
<td>ROGERS, J. PATRICK W.</td>
<td>Professor and Eminent Scholar (English), 1986</td>
<td>B.A., M.A., Ph.D., India University, 1970</td>
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<td>ROLF, CAROL J.</td>
<td>Assistant Vice President (Provost's Office, Academic Affairs), 1974</td>
<td>B.A.; M.D., University of Florida, 1982</td>
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<tr>
<td>ROSE, NATALIE E.</td>
<td>Associate Professor (Social Sciences), New College of USF, 1975 Sarasota Campus</td>
<td>M.A., Ph.D., University of South Florida, 1971</td>
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<tr>
<td>ROSE, BERNARD E.</td>
<td>Professor (Civil Engineering and Mechanics), 1965</td>
<td>S.B., M.E., M.S.A.E.; M.S.E.M., Ph.D., University of Florida, 1964</td>
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<td>ROTH, DEBORAH C.</td>
<td>Visiting Assistant Professor (Psychiatry), 1982 (Part time)</td>
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<td>ROTH, JAMES D.</td>
<td>Assistant Professor (Natural Sciences), New College of USF, 1987 Sarasota Campus</td>
<td>B.A.; M.A.; M.D., Harvard University, 1986</td>
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<td>ROWLEY, JOHN W.</td>
<td>Professor (Economics), 1979</td>
<td>B.S., M.S., University of Illinois, 1986</td>
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<td>ROWLANDS, DAVID T.</td>
<td>Professor - Chairperson (Pathology), 1982</td>
<td>M.D., School of Medicine, University of Pennsylvania, 1955</td>
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<tr>
<td>RUBIN, STEVEN J.</td>
<td>Professor (English), 1969</td>
<td>B.A., M.D., Johns Hopkins University, 1980</td>
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</table>
SMITH, DAVID H., Professor (Comprehensive Medicine), 1976
B.S.; M.A.; Ph.D., Ohio State University, 1966

SMITH, DONALD A., Assistant Professor (Surgery), 1988
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SMITH, ELIZABETH, University Librarian (University Libraries), 1981
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SMITH, ELTON E., Professor (English), 1961
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SMITH, HENRY M., Associate Professor (Library Media and Information Studies, Education), 1985
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SMITH, J. JEROME, Associate Professor (Anthropology), 1972
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*SPAIN, FRANK H., Director (Community College Relations), 1959
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SPECTOR, PAUL E., Professor (Psychology), 1981
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SPEER, DAVID C., Associate Professor (Aging and Mental Health, F.M.H.J.), 1988
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SPELLACY, WILLIAM N., Professor - Chairperson (Obstetrics and Gynecology), 1988
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SPENCE, JAMES G., Associate Professor (Economics), 1975 Ft. Myers Campus
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SPIEGEL, PHILLIP G., Professor-Chairperson (Orthopaedic Surgery), 1976
B.A., M.D., Northwestern University, 1960

SPIELBERGER, CHARLES D., Graduate Research Professor (Psychology), 1972
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SPIERS, ALEXANDER S. D., Professor (Cancer Education), 1987
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SPILLMAN, CAROLYN V., Associate Professor (Childhood and Language Arts Education), 1977 Ft. Myers Campus
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SPINDLER, CHARLES J., Visiting Assistant Professor (Public Administration), 1986
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SPROLES, H. ALLAN, Associate Professor (Exceptional Child Education), 1971
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SPURGIN, DALE D., Lecturer (Physics), 1972
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STAFFORD, JOHN W., Associate Professor (Geography), 1969
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STACH, JOSEPH, Visiting Professor- Director (Micro Electronics), 1988
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STAMPS, MIRIAM B., Associate Professor (Marketing), 1982
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STARK, WILLIAM R., Associate Professor (Mathematics), 1978
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STEELE, CHRISTOPHER L., Associate Professor (Theatre), 1979
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STEFANAKOS, ELIAS K. Professor - Chairperson (Electrical Engineering), 1986
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STEINER, H. EDWIN, JR., Associate Dean - Professor (College Administration, Education), 1969
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STELZMAN, RAINULF A., Professor (Languages), 1963,
DiP.L. I, DiP.L. II., Dr. Phil., University of Freiburg, 1953

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B.A.; Ph.D., University of Alabama, 1969

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<th>Name</th>
<th>Position/Department</th>
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<th>Date/Credentials</th>
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<tr>
<td>Stephens, Gerald B.</td>
<td>Lecturer (Fine Arts Events)</td>
<td>University of South Florida, 1972</td>
<td></td>
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<tr>
<td>Stephens, Sarah J.</td>
<td>Professor (Natural Sciences)</td>
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<tr>
<td>Stephens, William L.</td>
<td>Professor (Accounting)</td>
<td>Florida State University, 1971</td>
<td>CPA</td>
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<tr>
<td>Stevens, Brian</td>
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<tr>
<td>Stear, Robert G.</td>
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<td>Stewart, Gregory J.</td>
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<td>Stewart, Henry D.</td>
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<tr>
<td>Stokes, Sandra J.</td>
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<td>1986</td>
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<tr>
<td>Stokes, Trevor F.</td>
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<td>1985</td>
<td></td>
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<tr>
<td>Stone, Douglas E.</td>
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<td>University of Kansas, 1977</td>
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<tr>
<td>Stowe, Dewey M.</td>
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<td>Straker, Richard J.</td>
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<td>Strange, James F.</td>
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<td>University of Minnesota, 1972</td>
<td></td>
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<td>Strange, Winifred</td>
<td>Associate Professor (Communication Science and Disorders)</td>
<td>University of Minnesota, 1982</td>
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<tr>
<td>Straufjord, Jon V.</td>
<td>Professor (Pathology)</td>
<td>University of Washington, 1958</td>
<td></td>
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<tr>
<td>Street, Marian S.</td>
<td>Student Affairs Coordinator (Counseling &amp; Career Development)</td>
<td>St. Petersburg Campus, 1969</td>
<td></td>
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<tr>
<td>Strenglein, Denise D.</td>
<td>Data Base Coordinator (University Computing Services)</td>
<td>University of South Florida, 1969</td>
<td></td>
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<td>Strom, Diana L.</td>
<td>Assistant University Librarian (University Libraries)</td>
<td>University of South Florida, 1969</td>
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<td>Strom, Richard N.</td>
<td>Associate Professor (Geology)</td>
<td>University of Delaware, 1975</td>
<td></td>
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<tr>
<td>Strong, Paschal N.</td>
<td>Professor (Psychology)</td>
<td>University of Tennessee, 1955</td>
<td></td>
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<tr>
<td>Suarez, Dawn M.</td>
<td>Research Assistant in (Diabetes Center)</td>
<td>University of South Florida, 1985</td>
<td></td>
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<td>Subkis, Edward</td>
<td>Director, Radio/TV Stations (Educational Resources)</td>
<td>Fort Myers Campus, 1988</td>
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<td>Sugiuara, Kikuya</td>
<td>Associate Research In (Pediatrics)</td>
<td>St. Petersburg Campus, 1975</td>
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<tr>
<td>Sullivan, J. Ann</td>
<td>Research Associate Professor (Crime and Delinquency, FMHI)</td>
<td>1989</td>
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<td>Summa, Paul F.</td>
<td>Instructor - Visiting Coordinator (Special Education)</td>
<td>University of South Carolina, 1971</td>
<td></td>
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<td>Sumner, Linda S.</td>
<td>Assistant Director (Administrative Services)</td>
<td>Myers Campus, 1984, 1981</td>
<td></td>
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<td>Sundaram, Swaminatha</td>
<td>Professor - Chairperson (Physics)</td>
<td>Annamal University, India, 1990</td>
<td></td>
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<td>Sunol, Aydin K.</td>
<td>Associate Professor (Chemical Engineering)</td>
<td>Virginia Polytechnic Institute and State University, 1982</td>
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<td>Sutterlin, Chester E.</td>
<td>Visiting Assistant Professor (Orthopaedic Surgery)</td>
<td>1988</td>
<td></td>
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<td>Swanson, James M.</td>
<td>Associate Professor-Chairperson (History)</td>
<td>University of Indiana, 1964</td>
<td></td>
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<tr>
<td>Swanson, Richard M.</td>
<td>Associate Professor-Chairperson (Crime and Delinquency, FMHI)</td>
<td>1987</td>
<td></td>
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<td>Swanson, Donald B.</td>
<td>Director Advancement/Alumni Affairs (Health Sciences, Development and Alumni Affairs)</td>
<td>Pennsylvania State University, 1980</td>
<td></td>
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<td>Swierczek, Fredric W.</td>
<td>Associate Professor (Public Administration)</td>
<td>University of Pittsburgh, 1977</td>
<td></td>
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<td>Swihart, Stewart L.</td>
<td>Associate Dean-Proessor (Biology)</td>
<td>Lehigh University, 1964</td>
<td></td>
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<tr>
<td>Szakacs, Jeno E.</td>
<td>Professor (Cancer Education)</td>
<td>University of Rome, 1951</td>
<td></td>
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<tr>
<td>Szendvanyi, Andor</td>
<td>Professor (Pharmacology and Therapeutics)</td>
<td>University of Rome, 1951</td>
<td></td>
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<tr>
<td>Takano, Yasuo</td>
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<td>University of Hokkaido, 1980</td>
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<td>Tallis, Joan E.</td>
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<td></td>
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<tr>
<td>Tang, Tswen-Yung D.</td>
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<td>Taren, Douglas</td>
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<td>Cornell University, 1988</td>
<td></td>
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<td>Tatum, Jim C.</td>
<td>Associate Professor (Languages)</td>
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<td></td>
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<tr>
<td>Taylor, John R.</td>
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<tr>
<td>Taylor, Judy H.</td>
<td>Visiting Assistant In (Pediatrics)</td>
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<td>Taylor, Phyllis M.</td>
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<td>Atlanta University School of Library and Information Studies</td>
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BOGDIN, ARTUR R., Professor Emeritus (English Literature, New College of USF, 1975-1982 Sarasota Campus
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BRADY, HENRY G., Associate Professor (Adult and Vocational Education), 1969-1984
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BRIGGS, JOHN C., Professor (Marine Science), 1964-1985
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BROITON, JACK R., Professor Emeritus (Mathematics), 1967-1976
BRUSCA, DONALD D., University Physician (Student Health Center), 1965-1973
BRYANT, FRED D., Director (Health Sciences Library), 1971-1984
BRYANT, HAYDEN C., Jr., Associate Professor (Art & Music Education, 1967-1985
Caldwell, EDWARD, Associate Professor (Measurement and Research Education), 1965-1985
CARR, ROBERT S., Visiting Lecturer (Mass Communications), 1968-1974
CATLIN, ROBERT A., Associate Professor (Political Science), 1977-1983
*CECONI, ISABELLE F., Lecturer (English), 1960-1984
CHAMBERS, JAMES A., Professor (Childhood and Language Arts Education), 1964-1985
CHEN, CHUNG HNAN Professor Emeritus (Philosophy), 1965-1975
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CLINE, RALPH Associate Professor (Exceptional Child Education), 1971-1984 St. Petersburg Campus
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COVINGTON, HARRISON W., Dean Emeritus - Professor Emeritus (Fine Arts), 1961-1982
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CRAIG, CALVERT J., Associate Professor (Educational Leadership Education), 1967-1987
CRIKEMBERGER, MARGARET E., Professor Emeritus (Physical Education, Education), 1961-1979
DANENBURG, WILLIAM P., Professor (Adult and Vocational Education), 1964-1985
DAUGHTERY, GEORGE G., Lecturer (Mass Communications), 1972-1980
DAVEY, KENNETH W., Assistant Professor (Economics), 1966-1984
*DAVIS, WESLEY F., Professor Emeritus (English), 1960-1983
DEAN, HARRIS W., Vice President Emeritus (Academic Affairs), 1961-1981
*DEY, WILLIAM A. JR., Associate Professor (Accounting), 1969-1973
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DONALDSON, MERLE R., Professor (Electrical Engineering), 1964-1985
DONIS, JACK P., Lecturer (Accounting), 1982-1989
DOTT, LOUIS F., Professor (Industrial and Management Systems, Engineering), 1970-1983
DOWNEY, Paul M., Professor Emeritus (Industrial Systems, Engineering), 1966-1987
DUBOIS, LEADORE D., Associate Professor (Childhood and Language Arts Education), 1964-1980
*DUDLEY, FRANK M., Associate Professor (Chemistry), 1960-1981
DUNN, EDGAR H., Lecturer (Accounting), 1970-1981 St. Petersburg Campus
DURSO, MARY W., Professor (Adult and Vocational Education), 1969-1987
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ERVIN, DONALD W. (Deceased) Instructor - Assistant Director (Sponsored Research), 1973-1983
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FORMAN, GUY Professor Emeritus (Physics), 1962-1972
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*FUSON, ROBERT H., Professor (Geography), 1960-1986
FUTHEY, DALEE R., Lecturer (Marketing), 1969-1984
GATES, JEAN K., Professor (Library, Media and Information Studies, Education), 1966-1986
GESSMAN, ALBERT M. (Deceased) Professor (Religious Studies), 1961-1985
GHIOPTO, JAMES L., Assistant Professor (Mass Communications), 1981-1985
GILMORE, ALDEN S., Associate Professor (Gerontology), 1961-1985
GLENNISON, EMILE G. (Deceased) Associate Professor Emeritus (Foreign Languages), 1967-1977
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GOWEN, HOWARD B., Associate Professor (Humanities), 1963-1984
GRISCTI, WALTER E., Professor (Mass Communications), 1967-1983
GROSS, PINCUS Associate Professor (Rehabilitation Counseling), 1971-1987
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*HARTLEY, JACQUETTA W., Instructor (English), 1960-1972
HAVEN, JULIA M. (Deceased) Professor Emeritus (Education), 1969-1984
HEARN, THOMAS K., Assistant Professor (Education), 1967-1977
*HERTZ, GILMAN W., Professor (Elective Physical Education), 1960-1985
HICKMAN, WILLIAM Assistant Professor (English), 1963-1969
HILL, ROSALIE A., Academic Administrator (Continuing Education), 1975-1988
HINDE, WILL M. (Deceased) Professor (Visual Arts), 1972-1985
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HORRIGAN, FREDERICK J. (Deceased) Associate Professor (Political Science), 1968-1985
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KELLER, WALTER D., Professor (Geology), 1970-1973
KELLEY, JOAN E., Associate Professor (Mathematics), 1964-1988 St. Petersburg Campus
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*MC CLUNG, GENE Professor (Accounting), 1960-1983 St. Petersburg Campus
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MANKER, CHARLES C., JR. (Deceased) Professor (Psychological and Social Foundations), 1966-1984
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MERRIAM, KEMP W., Professor (Accounting), 1967-1982
*Meyer, HERBERT N., Professor (Industrial/Organizational Psychology), 1973-1985
MEYERREICKS, ANDREW J., Professor (Biology), 1961-1985
*MILLER, GEORGE H., Program Director (Southeast Center Cooperative Education Grant), 1960-1980
MITCHELL, WILLIAM G., Director (Instructional Services), 1974-1986
*MONLEY, LAURENCE E. (Deceased) Professor (Mathematics Education), 1960-1984
MURPHY, ROBERT J., Associate Professor (Economics), 1966-1984
*NELSON, GID E., JR., Professor Emeritus (Biology), 1960-1981
NEUBERGER, HANS H., Professor Emeritus (Geography), 1971-1974
NOER, RUDOLF J., Professor Emeritus (Surgery), 1970-1977
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OCHSHORN, MYRON G., Associate Professor (English), 1963-1985
O'DONNELL, MAURICE E., Associate Professor (Public Administration), 1966-1984
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OLESON, NORMAN L., Professor (Physics), 1969-1985
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ROTHWELL, STUART C., Professor Emeritus (Geography), 1965-1979
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SHERMAN, ROGER T., Professor (Surgery), 1972-1982
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SLEEPER, DAVID C., Professor (Marketing), 1964-1985
SMITH, ALICE G., Professor (Library, Media and Information Studies, Education), 1965-1988
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SMITH, CHARLES T., Associate Professor (Finance), 1968-1986
SMITH, NORMAN V., Lecturer (Engineering), 1968-1975
SMITZES, MELPOMENE, Associate Professor (Exceptional Child Education), 1965-1983
SODEMAN, WILLIAM A., JR., Associate Dean-Professor (Comprehensive Medicine), 1975-1987
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*STANTON, EDGAR E., JR., Professor (American Studies), 1960-1977
STEINIKE, GEORGE C., Associate Professor (Economics), 1971-1983
STEVENS, NOEL, Associate Professor (Music), 1970-1988
STONE, LEO D., Lecturer (Finance), 1974-1981 St. Petersburg Campus
STUBBLEBINE, ALBERT N., JR., Assistant Professor (Engineering), Coordinator (Cooperative Education Program), 1964-1966
SULLIVAN, MARY S., University Librarian (Educational Resources), 1968-1979
TAYLOR, SPAFFORD C., Associate Professor (Elective Physical Education, Education), 1963-1984
THOMPSON, SHERMAN, Associate Professor (Adult and Vocational Education), 1966-1983
TIPTON, HENRY C., Assistant Professor (Biology), 1965-1980
TOOTHMAN, REX C., Associate Professor (Adult and Vocational Education), 1970-1980
TURBEVILLE, JOSEPH E., JR., Lecturer (Physics), 1964-1984
TWIGG, JOHN F. (Deceased), Associate Professor (Engineering), 1964-1981
UNRUH, ANITA, Associate Professor (Art and Music Education), 1969-1985
URBANEK, RAYMOND A. (Deceased), Professor (Measurement and Research Education), 1961-1981
*VALENTINE, VIRGINIA W., Lecturer (English), 1960-1984
VETTER, HAROLD J., Professor (Criminology), 1974-1988
WARD, ANNIE, Professor (Measurement and Research Education), 1972-1980
*WARNER, ROBERT A., Professor Emeritus (Interdisciplinary Social Science), 1960-1975
WEINGAPTRNER, CHARLES, Professor Emeritus (Psychological and Social Foundations Education), 1960-1981
WEST, WILLIAM W., Professor (Content Specializations, Education), 1970-1987
WHITNEY, VERNON W., Associate Professor (Social Science and Letters Education), 1966-1982
WILEY, RUSSELL W., Professor - Coordinator (Education), 1966-1975
*WINCH, ANNABELLE, Assistant to Vice President (Student Health Services), 1960-1984
*WINCHROP, HENRY (Deceased), Professor Emeritus (Interdisciplinary Social Science), 1960-1978
WRONG, CHARLES J., Lecturer (History), 1970-1986
WUNDERLICH, HERBERT J., Vice-President For Student Affairs Emeritus (Student Affairs), 1962-1972
WURSTER, MARGUERITE S., Associate Librarian (SUS Extension Library), 1965-1978 St. Petersburg Campus
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