EN 4142 INTRODUCTION TO NUCLEAR ENGINEERING

GRADUATE COURSES
ECH 6217 ADVANCED TRANSPORT PHENOMENA

ECH 6218 ADVANCED TRANSPORT ANALYSIS
PR: CI. Steady and transient multi-dimensional momentum and mass transport, emphasis on solution techniques, analytic and numerical.

ECH 6515 REACTING SYSTEMS
PR: ECH 4415 or CI. Dynamics of heterogeneous reactions. Economic factors in the design of chemical reactors. Simultation of complex reacting systems.

ECH 6616 DESIGN AND CASE STUDIES
PR: ECH 4415. Plant and process design with emphasis on computer aided design.

EMC 5107 INDUSTRIAL ENERGY CONSERVATION

EMC 5115 PROCESS HEAT TRANSFER
PR: EM 4118. Selection and sizing of common process heat transfer equipment. Single and multiple convection in shell and tube, flat plate and spiral plate exchangers. Combined heat and mass transfer in partial condensers, spray dryers and cooling towers.

EMC 5125 TRANSPORT PHENOMENA PROJECTS
PR: CI. Design, evaluation and feasibility study projects in transport phenomena. Content varies each term. May be repeated.

EMC 5191 HEAT TRANSFER PROJECTS
PR: CI. Industrial design projects in the heat transfer field. Varies each term. May be repeated once for credit.

EMC 5306 INSTRUMENTAL ANALYSIS
PR: CHM 2047, PHY 3042. This course deals with sophisticated instrumental techniques for chemical analysis. Emphasis is placed on the physical basis of the instrument and its design.

EMC 5315 MACHINE CONTROL SYSTEMS
PR: EM 4314 or CI. Machine control system components and their effects on closed loop system performance. Transfer characteristics of hydraulic, pneumatic and electrical elements and processes.

EMC 5320 ELECTRICAL MOTION AND CONTROL
PR: EGN 3373, EGN 3433. Standard electrical voltages. NEMA motor designs, techniques for estimating motor starting times and temperature rise. Control system elements, interlocks, electrical code requirements for conductors and protective devices.

EMC 5591 ELECTRICAL ENERGY CONVERSION PROJECTS
PR: CI. Design projects in the area of energy conversion. Content varies each term.

EMC 5605 INDUSTRIAL AIR POLLUTION CONTROL
PR: CI. A basic course in the elements of large source air pollution and control. Major units to be considered: Sources, meteorology, diffusion, local influences, control measures, emergencies, protection.

EMC 5930 SPECIAL TOPICS III
PR: CC.

EMC 5931 SPECIAL TOPICS IV
PR: CC.

EMC 5935 ADVANCED THERMODYNAMICS
PR: CC. Selected topics in classical and irreversible thermodynamics.

EMC 6120 NUMERICAL METHODS IN HEAT TRANSFER

EMC 6121 ADVANCED CONDUCTION ANALYSIS

EMC 6122 RADIATION
PR: EM 4118. Review of basic principles of radiation, grey bodies and real surfaces, calculation of shape factors, absorbing gases.

EMC 6306C INSTRUMENT SYSTEMS III
PR: CI. To provide an advanced project oriented experience in computer controlled automatic systems.

EMC 6306C INSTRUMENT SYSTEMS IV
PR: CI. Advanced applications of computers to instrumentation and measurement systems. Case and project oriented.

EMC 6317 DIRECT DIGITAL CONTROL I
PR: EM 4314, EM 4411, or CI. Application of digital computers to control of engineering processes. Includes study of digital filtering, Z-transforms, supervisory control, A/D and D/A conversion and advanced control strategies.

EMC 6318 DIRECT DIGITAL CONTROL II
PR: EM 6317 or CI. A continuation of EM 6317 with detailed study of special cases. Cases will vary from term to term.

EMC 6412 PROCESSES ANALYSIS AND MODELING
PR: CI. Computer controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes.

EMC 6520 ENERGY TRANSFORMATION AND STORAGE

EMC 6650 PROCESS DESIGN FOR ENVIRONMENTAL PROTECTION
PR: ECH 4415 or CI. Equipment and process design with emphasis on discharge control and environmental protection. Economic and ecological constraints on optimum design.

EMC 6906 DIRECTED RESEARCH
PR: GR. Master’s level. Repeatable (S/U only).

EMC 6907 INDEPENDENT STUDY
PR: GR. Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

EMC 6930 SPECIAL PROBLEMS I
PR: CC.

EMC 6931 SPECIAL PROBLEMS II
PR: CC.

EMC 6938 GRADUATE INSTRUCTION METHODS
PR: CC. Special course to be used for training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per study. (S/U only.)

EMC 6939 GRADUATE RESEARCH METHODS
PR: CC. Special course to be used for training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credit hours per student. (S/U only.)

EMC 6971 THESIS: MASTER
PR: CC. Repeatable (S/U only).

EMC 7915 DIRECTED RESEARCH
PR: CC and GR Ph.D. level. Repeatable (S/U only.)

EMC 7980 DISSERTATION: DOCTORAL
PR: Must be admitted to doctoral candidacy. Repeatable. (S/U only.)

EML 5241 LUBRICATION
PR: EM 4503 or CI. The theoretical basis for lubrication and bearing theory. The study of lubrication requirement of different machine types. Introduction to gas bearings.

EML 5504 MECHANICAL DESIGN OF PROCESS EQUIPMENT
PR: EML 3500. Design of thin wall pressure vessels, ASME codes, flanges, joints, gasketed surfaces, supports and foundations.

EML 5509 PROJECT DESIGN III
PR: CC. Correlation of previously acquired mechanical design experiences with a creative design project. Lec-lab.

EML 5528 ANALYSIS METHODS FOR MECHANICAL DESIGN
PR: EML 4503, or CI. Treatment of stress, strain and strength aspects of machine design. Application of failure theories, residual stresses and energy principles to machine elements.

EML 6222 VIBRATION ANALYSIS
PR: EML 4265 of CI. Transient and steady state analysis of mechanical systems with lumped parameters. Computer simulation of systems. Application of generalized coordinates, matrix representation and other methods to lumped parameter systems.

EML 6225 ACOUSTICS AND NOISE CONTROL
EML 6235 APPLIED ENGINEERING ASPECTS OF FATIGUE (2)
PR: EML 5528 or CI. Evaluation of strength of machine members under fatigue loading. Stress concentrations, residual stress effects, surface coatings, environmental effects. Statistical treatment in fatigue analysis.

EML 6273 ADVANCED DYNAMICS OF MACHINERY (3)
PR: EML 4265 or CI. Detailed study of velocities, accelerations, and forces in machines with parts having rotating, reciprocating and combined motion.

EML 6533 ADVANCED MECHANICAL DESIGN (2)
PR: CC. A technical application course involving the problem of developing machines to perform specific functions. The analysis will include evaluation of kinematic performance, and examination of parts from stress, strain, wear and fabrication process.

EML 6606 HVAC SYSTEMS (3)
PR: EML 4601 or CI. Criteria for selection of systems types; performance characteristics of single zone, multizone, double duct and variable volume systems; energy conservation in HVAC design; HVAC controls; computer models of HVAC systems; solar energy uses in HVAC.

CIVIL ENGINEERING AND MECHANICS
UNDERGRADUATE COURSES

CES 3400 DESIGN PRINCIPLES AND PRACTICES (2)
PR: EGN 3354C, EGN 3365L. EE 3331 Methodology of the design process in civil engineering. Includes problem definition, criteria, data collection and analysis, information sources, planning, specifications, and presentation of technical information.

CES 3402 CIVIL ENGINEERING LABORATORY (1)
PR: EGN 3331, EGN 3354C, EGN 3365L. A laboratory experience in departmental facilities including the subject areas of structures, materials, fluids, transportation, soils, engineering mechanics and environmental engineering.

CES 4001 STRUCTURES I (3)
PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Introduction to the use of energy methods in indeterminate structures.

CES 4002 MATRIX STRUCTURAL ANALYSIS (3)

CES 4104 ADVANCED MECHANICS OF MATERIALS (3)
PR: EGN 3331, MAP 4302. Analytical analysis of the mechanical behavior of deformable solids; special topics in beam theory, elastic and inelastic methods, plastic limit analysis flexure and torsion of beams; introduction to finite element computer methods.

CES 4208 STRUCTURAL DYNAMICS (3)
PR: CES 4001, EGN 4430. Behavior of structural components and systems when subjected to periodic dynamic loads.

CES 4402 STRUCTURAL DESIGN-CONCRETE (2)

CES 4403 HYDRAULIC DESIGN (2)
PR: EGM 4816, ENV 4622. Design of hydraulic systems, including drainage, water supply, and flood control.

CES 4404 FLUID SYSTEMS DESIGN (3)
PR: EGM 4816. Design of fluid systems. Consideration of pressure, drag, and gravity forces.

CES 4501 CONCEPTS OF STRUCTURAL DESIGN (3)
PR: CES 4001. Applications of solid mechanics, material science and structural analysis to the design of buildings, bridges, and mobile structures. Review of current codes and specifications.

CES 4502 STRUCTURAL DESIGN—STEEL (2)
PR: CES 4501. Design of structures made of steel.

CES 4700 CEMENT AND CONCRETE DESIGN (2)
PR: EGN 3365L. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.

CES 4704 STRUCTURAL DESIGN-CONCRETE (2)

CIVIL ENGINEERING AND MECHANICS
UNDERGRADUATE COURSES

CES 4911 SENIOR PROJECT (2)
PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

CES 4933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS (1-5)
PR: CI. New technical topics of interest to civil engineering students.

EAM 4421 HYDRAULIC AND AEROMECHANICS (3)
PR: EGN 3354, MAP 4302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

ECI 4311 SOIL MECHANICS I (3)
PR: EGN 3354C. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

ECI 4312 SOIL MECHANICS II (3)
PR: ECI 4311. A study of the application of the principles of soil mechanics to problems in soils engineering.

ECI 4660 GEOTECHNICAL DESIGN (2)
PR: ECI 4311. Design of geotechnical systems including bases, foundations, embankments, and dams.

ECI 4911 RESEARCH IN CIVIL ENGINEERING AND MECHANICS (1-4)
PR: CC.

EGM 4430 SHOCK AND VIBRATIONS (2)
PR: EGN 3321, MAP 4302. Response of mechanical systems to shock excitation; vibration of discrete and continuous bodies.

EGM 4610 COMPUTATIONS IN CIVIL ENGINEERING (3)
PR: MAP 4302. Development of techniques of applied mathematics to civil engineering problems, partial differential equations, vector analysis, complex variables.

EGM 4816 HYDRAULICS (3)
PR: EGN 3354C. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

EMA 4303 THERMODYNAMICS OF MATERIALS (3)
PR: EGN 3365. Principles of Chemical Thermodynamics as applied to the interactions of materials with gaseous, aqueous and solid phase environments.

EMA 4324 CORROSION OF ENGINEERING MATERIALS I (3)
PR: EGN 3365L. Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of localized forms of corrosion and approaches to corrosion control.

EMA 4324L CORROSION LABORATORY (1)
PR: EMA 4324. Experimental potentiostatic and galvanostatic polarization studies related to various corrosion phenomena.

EMA 4601 CORROSION CONTROL SYSTEM DESIGN (2)
PR: EMA 4324. Design of corrosion prevention systems and prediction of the behavior of materials in various corrosive environments.

EMA 4604 PROCESSES IN MATERIALS ENGINEERING (3)
PR: EGN 3365L. Introduction to the basic theories of solidification and ultratification of materials, discussion of the various techniques of welding and joining materials, and discussion of the primary methods of shaping and forming materials.

EMA 4703 CONCEPTS OF ENGINEERING MATERIALS (3)

EMA 4704 SELECTION AND APPLICATION OF ENGINEERING MATERIALS (3)
PR: EGN 3365L. Determination of the property requirements for the utilization of materials in specific applications, comparison of properties of metals, plastics, and ceramics, the effect of heat treatment, etc., on materials, property limitations.

EMA 4905 INDEPENDENT STUDY (1-5)
PR: CC. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U only.)

ENV 3001 SOCIETAL ASPECTS OF ENVIRONMENTAL ENGINEERING (3)
An introduction to various aspects of environmental problems faced by today's society. Readings and discussions are conducted concerning air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection, with regard to aesthetic, legal, economic, technical, and political constraints. This course is acceptable as an Engineering Social Science and Humanities Elective and is open to non-engineering students.
A study of the theory of wastewater and the relationship of theory to analysis and design practice. Emphasis is given to unit processes. The course is devoted to the design and analysis of specific wastewater treatment works.

CES 6217 STRUCTURAL STABILITY
PR: CES 4002, CES 4208. Elastic and inelastic stability of trusses and frames, local buckling of structural members and plates.

CES 6335 OPTIMIZATION TECHNIQUES IN CIVIL ENGINEERING
PR: CI. Theory and application of optimization techniques to the planning, design and operation of Civil Engineering Systems.

CES 6915 DIRECTED RESEARCH
PR: GR. Master's level. Repeatable. (S/U only.)

CSES 6938 GRADUATE INSTRUCTION METHODS
PR: EGM 4816. A special course to be used primarily for the training of graduate research assistants. Variables credit. Repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

CSES 6989 GRADUATE RESEARCH METHODS
PR: EGM 4816. A special course to be used primarily for the training of graduate research assistants. Variable credit. Repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

ECI 6206 COASTAL WAVES AND STRUCTURES
PR: EGM 4816 or CI. A study of the fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.

ECI 6207 WAVES AND BEACH PROTECTION
PR: ECI 6206. A study of the fundamentals of shoreline dynamics including the distribution of wave energy, motion of beach sand, stable configurations and protective measures.

ECI 6208 COASTAL AND ESTUARY MODELING
PR: CI. A study of the fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.

ECI 6239 FREE SURFACE FLOW
PR: EGM 4816 or CI. A study of wave motion and the mutual interaction of waves and structures. A design project is included.

ECI 6631 HYDROLOGIC MODELS
PR: ECI 6206. A study of the theoretical and practical aspects of hydrologic modeling and an examination of various numerical hydrologic models available. Students will be required to develop and apply computer models.

ECI 6632 URBAN HYDROLOGY
PR: CI. A study of the fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.

ECI 6933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS
PR: CC

ECI 6939 CIVIL ENGINEERING AND MECHANICS SEMINAR
PR: CC

ECI 6971 THESIS: MASTER'S
VAR.

EES 6205 WATER QUALITY FOR ENGINEERS II
PR: EES 5203, MCB 3010C Study of biochemical reactions and processes in treatment plants with emphasis on control of effluents for the protection of water quality.

EGM 6136 ADVANCED X-RAY METHODS
PR: CI. X-Ray diffraction, analytical and experimental studies of defects, texture, residual stress, crystal and polycrystalline aggregates. Lee.-lab.

EGM 6261 ADVANCED DYNAMICS

EGM 6343 NUMERICAL METHODS IN ENGINEERING ANALYSIS
PR: EGM 4420. Application of computational and mathematical methods and principles to advanced engineering problems.

EGM 6353 FINITE ELEMENT METHODS II

EGM 6611 CONTINUUM I
PR: CI. Formulation of fundamental problems in solids and fluids from a unified viewpoint; application to ideal media; elastic, plastic, and fluid problems.

EGM 6655 CONTINUUM II
PR: EGM 5611. Theory of thermoelectricity and viscoelastic behavior in continuous media; coupled thermodynamics and mechanical
behavior; generalized constitutive relations.

EGM 6656 THEORY OF ELASTICITY (3)
PR: CI. Classical and contemporary elasticity theory with applications to engineering problems.

EGM 6675 THEORY OF PLASTICITY (3)
PR: CI. A study of the theory of plasticity including initial and subsequent yield surfaces, incremental and deformation theories.

EGM 6796 PLATES AND SHELLS (3)
PR: CR: CES 4001, and CI. Elastic behavior of thin plate and shell structures.

EGM 6814 ADVANCED FLUID MECHANICS (3)
PR: EGM 4816. Formulation and analysis of problems in the flow of viscous and nonviscous fluids including Newtonian and Non-Newtonian flows. Mathematical methods and techniques of solutions.

EMA 6236 DISLOCATION STRUCTURES AND PROPERTIES OF ENGINEERING MATERIALS (3)
PR: EMA 4324. Dislocation interactions and structures in metals, principles of phase nucleation and growth, transformations and a study of the primary strengthening mechanisms in metals.

EMA 6907 INDEPENDENT STUDY (var.)
PR: CC. Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

ENV 6645 WATER RESOURCES SYSTEMS (3)
PR: ENV 4622, CES 6335. The planning, design, and operation of water resources by the use of systems analysis and operations research techniques.

CIS 4001 COMPUTER AND ENGINEERING UNDERGRADUATE COURSES

CAP 4621 INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3)
PR: EEL 4851C. Basic concepts, tools and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting contraints, searching spaces, understanding natural languages, problem solving strategies, etc.

CDA 4101 COMPUTER ORGANIZATION AND ARCHITECTURE (3)
PR: COT 3001, EEL 4705, or CC. Elements of computer systems; processors, memories and switches. Register transfer presentation of a computer. ALUs and their implementation. The control unit. Memory and I/O. Hardware support of operating system functions. Multiprocessor systems. Economic considerations.

CDA 4171 MINICOMPUTER LABORATORY (1)

CDA 4905 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5)
PR: CI. Specialized independent study determined by the needs and interests of the student. May be repeated up to 10 credit hours. (S/U only.)

CIS 4321 DATA PROCESSING APPLICATIONS (3)
PR: EEL 4850C, EEL 4851C. An introduction to the principles of information processing and applications. Fundamentals of systems for management and control.

CIS 4911 COMPUTER SCIENCE PROJECT (3)
Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.

COC 4240 COMPUTERS AND SOCIETY (3)
This is a computer literacy course on the history and development of computational devices. It covers the social implications of modern computers in the office, business, the physical and social sciences, communications, and the humanities. Practical experience on some computing devices will be included, but the course is not intended to provide depth in programming. (No credit for Computer Science and Engineering majors.)

COC 4935 SPECIAL TOPICS IN COMPUTER SCIENCE I (1-4)
PR: CC.
COP 6717 PASCAL AS A RESEARCH TOOL
PR: Ph.D. level. Intended only for doctoral students who would want to substitute the computer language Pascal for one of the foreign language requirements as a tool of research. (S/U only.)

EEL 5771 INTRODUCTION TO COMPUTER GRAPHICS I
PR: CC. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.

EEL 6522 INFORMATION THEORY
PR: CC. Concepts of information, information channels, channel capacity, information sources and Shannon’s fundamental theorem.

EEL 6773 THREE-DIMENSIONAL GRAPHICS AND SYSTEMS
PR: EEL 5771 or CC. Advanced course covers the methods of representation of three dimensional objects in the plane of the graphics screen and the hardware and software required for their processing.

EEL 7264 PRINCIPLES OF COMPUTER ARCHITECTURE
PR: EEL 5711 or CC. Study of the number systems and the algorithms used for digital arithmetic computation with emphasis in their implementation, speed and reliability considerations.

EEL 6766 ADVANCED COMPUTER ARCHITECTURE
PR: EEL 6764 or CC. The macro-structure of computers is considered in this course, ranging from the orthodox von Neumann design to multiprocessors, stack processors, pipeline systems, and associative computers.

EEL 6830 CODING THEORY I
PR: CC. Error-correcting codes, algebraic block codes, linear codes and feedback shift registers. BCH codes and decoding methods.

EEL 6831 CODING THEORY II

EEL 6840 AUTOMATA THEORY I
PR: EEL 5760 or CC. Review of mathematical foundations, decomposition and interconnection of digital machines, measurement and control of finite-state sequential circuits, machine identification, regular expressions and finite-state machines.

EEL 6841 AUTOMATA THEORY II

EEL 6842 AUTOMATA THEORY III
PR: EEL 6841. Artificial languages, phase-structure grammars, operations on languages, decision problems, discrete value random processes, Markov processes, probabilistic sequential machines, nondeterministic sequential machines.

EEL 6843 AUTOMATA THEORY II
PR: EEL 6841. Artificial languages, phase-structure grammars, operations on languages, decision problems, discrete value random processes, Markov processes, probabilistic sequential machines, nondeterministic sequential machines.

EST 6198 CASE STUDIES IN INDUSTRIAL COMPUTER SYSTEMS
PR: CC. A case study approach to the definition and implementation of industrial computer systems. The role of automation within the industrial concern. Design of systems in inventory, production control, and related areas. Directing the computer function and systems development.

ELECTRICAL ENGINEERING

UNDERGRADUATE COURSES

EEL 3100 NETWORK ANALYSIS AND DESIGN

EEL 3302 ELECTRONICS
PR: EGN 3373. A course in the physical principles of electronic devices with emphasis on semi-conductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEL 3410, 4411 FIELDS AND WAVES I, II
PR: MAP 4302, PHY 3041, PHY 3041L. A basic introduction to electromagnetic field theory, including static and dynamic electromagnetic fields.
### EEL 4102 LINEAR SYSTEMS ANALYSIS
PR: EEL 3100. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.

### EEL 4108 DISTRIBUTED NETWORKS
PR: EEL 3410, EEL 3100. Transmission lines, standing waves, impedance, waveguides.

### EEL 4163 COMPUTER AIDED DESIGN AND ANALYSIS
PR: EEL 3302. The emphasis is upon applications and how to use the major CAD/A systems as effective tools to solve a wide variety of engineering problems. The coverage includes solid state design, systems analysis, digital logic, transfer function solutions and concludes with a brief look at thermal and mechanical systems analysis. The programs used include SUPER*SCEPTRE, SPICE 2, NASAP and others.

### EEL 4222 ELECTROMECHANICS I, II

### EEL 4300 COMMUNICATION CIRCUITS
PR: EEL 3302. Provides further study in electronic circuits. Includes oscillator, modulator, and detector analysis and design.

### EEL 4330 MICROELECTRONICS ENGINEERING

### EEL 4411 See EEL 3410.

### EEL 4511 COMMUNICATION ENGINEERING
PR: EEL 4300. System considerations of electronic circuits; radio propagation; antennas; transmitters and receivers.

### EEL 4511 COMMUNICATIONS LABORATORY
CR: EEL 4511. Experiments in amplitude modulation, frequency modulation, pulse communications, and data transmission.

### EEL 4656 LINEAR CONTROL SYSTEMS

### EEL 4705 LOGIC DESIGN
PR: EGN 3373. Non-majors may enroll with CC. Binary number system; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; logic circuits in computers.

### EEL 4705L LOGIC LABORATORY
CR: EEL 4705.

### EEL 4905 INDEPENDENT STUDY
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U only.)

### EEL 4906 DESIGN PROJECT
PR: Senior standing. An individual or team project involving the design of an electrical component system. Required of all electrical seniors.

### EEL 4935, 4936, 4937 SPECIAL ELECTRICAL TOPICS I, II, III
(1-4 each)

### EEL 5250 POWER SYSTEMS ANALYSIS
PR: CC. Analysis techniques for AC power systems.

### EEL 5253 COMPUTER ANALYSIS OF POWER SYSTEMS
PR: CC. Review of Fortran programming, matrix algebra, network formulation, short circuit studies, simulation of algebraic equations, load flow studies, numerical solution of differential equations, transient stability studies. Strong emphasis on techniques adaptable to digital computer studies, programs will be written and run on the IBM 360/65.

### EEL 5367 PULSE CIRCUIT PRINCIPLES
PR: EEL 4102, EEL 4300. An introduction to the analysis and design of pulse and timing circuits with applications.

### EEL 5435 UHF PRINCIPLES
PR: EEL 4102, EEL 4300, EEL 4411. A study of tubes, devices, and circuits peculiar to systems which operate at ultra high and super high frequencies.

### EEL 5435L UHF LABORATORY
CR: EEL 5435.

### EEL 5520 NONLINEAR CONTROL SYSTEMS

### EEL 5711 DIGITAL COMPUTERS
PR: EEL 4705. Digital arithmetical; computer subsystems, arithmetic units; control units; memory units; general purpose computers.

### EEL 5711L DIGITAL LABORATORY
CR: EEL 5711.

### EEL 5755 DIGITAL SIGNAL PROCESSING TECHNIQUES

### EEL 5760 DISCRETE STRUCTURES FOR DIGITAL SYSTEMS

### EEL 5820 IMAGE PROCESSING BY COMPUTERS
PR: EEL 4102 or CC. Two dimensional convolution and system functions. Fourier transform in two dimensions. Digitalization of two dimensional signals, sampling theorems, bandlimited signals: Image processing by computers. Applications of image processing.

### EEL 5935, 5936, 5937 SPECIAL ELECTRICAL TOPICS I, II, III
(1-3 each)
PR: CC.

### EEL 6141, 6142, 6143 NETWORKS SYNTHESIS I, II, III
(2-2-2)
PR: CC. Network functions; physical realizability; two terminal network synthesis methods; frequency transformation; potential analogy; approximation problems; insertion-loss and transfer function synthesis.

### EEL 6150, 6151 ADVANCED CIRCUIT THEORY I, II
(2,2)
PR: CC. Network fundamentals; network characterization; frequency analysis; superposition integrals; signal-flow techniques; stability problems; real-and-imaginary relations.

### EEL 6152 NONLINEAR CIRCUITS
PR: CC. Analytical and topological approaches to nonlinear circuits; nonlinear resonance; relaxation oscillations.

### EEL 6168 CADA: MODELING & SOFTWARE
PR: EEL 4163. Coverage includes all facets of solid-state modeling pertaining to CADA applications. Discrete and macro modeling techniques are explored for a wide range of devices. Software methods for CADA applications are discussed from several vantage points. Methodology and treatment required for the large scale, general purpose programs are explored. The mathematical techniques used for the modern integration routines are examined, with tradeoffs discussed.

### EEL 6174 OPTIMUM FILTERING AND IDENTIFICATION
PR: CC or EEL 6631. Estimation theory and development of the Kalman-Wiener filter for continuous and discrete-time systems. System indentification through deterministic and stochastic approaches. Application to control and communication systems.

### EEL 6261, 6262, 6263 ELECTRIC POWER SYSTEMS I, II, III
(2,2,2)
PR: CC Steady-state and transient analysis of interconnected power systems; power circuit protection; transient characteristic of apparatus.

### EEL 6270 LIGHTNING AND SURGE PROTECTION
PR: CC. Methods of protection against overvoltage due to lightning. Ground wire shielding, systems and tower grounding, lightning arresters. Dynamic overvoltage, switching phenomena and system recovery voltages.

### EEL 6271 PROTECTIVE RELAYING OF POWER SYSTEMS
PR: EEL 5250, EEL 6261 or CC. Fundamentals of instrumentation. Design and operation of protective schemes for equipment in generation, transmission, and distribution circuits. Analysis of abnormal system conditions requiring relay operation.

### GRADUATE COURSES

### EEL 5250 POWER SYSTEMS ANALYSIS
PR: CC. Analysis techniques for AC power systems.

### EEL 5253 COMPUTER ANALYSIS OF POWER SYSTEMS
PR: CC. Review of Fortran programming, matrix algebra, network formulation, short circuit studies, simulation of algebraic equations, load flow studies, numerical solution of differential equations, transient stability studies. Strong emphasis on techniques adaptable to digital computer studies, programs will be written and run on the IBM 360/65.
EEL 6332 ELECTRICAL PROPERTIES OF THIN FILMS  ...
PR: EEL 4330 or equivalent and EEL 4411 or CC. Electrical properties of thin films as derived from Boltzmann's transport equation. The growth of thin films. The fabrication of electrical circuits with thin films. Lecture supplemented by laboratory experiments and demonstrations.

EEL 6351, 6352, 6353 SOLID STATE ELECTRONICS I, II, III  (2,2,2)
PR: CC. Theory of operation and application of circuits and devices.

EEL 6366, 6389 PRINCIPLES OF SEMICONDUCTOR DEVICES  (2,2)
PR: EEL 4102, EEL 4411. A course sequence which emphasizes systematic methods for obtaining models which relate device physics to terminal behavior and which provide appropriate compromises between accuracy and simplicity.

EEL 6387 NOISE THEORY  (2)
PR: CC. Electrical noise and signals through linear filters and electronic systems.

EEL 6432 MICROWAVE COMPONENTS  (2)
PR: CC. A study of directional couplers, junctions, cavities and other passive microwave components including microwave integrated circuits.

EEL 6433 MICROWAVE NETWORKS  (2)
PR: CC. Scattering and transfer representation of n-ports. Odd and even mode theory. Wave filters.

EEL 6434 MICROWAVE GENERATION AND AMPLIFICATION  (2)

EEL 6447 OPTICAL ELECTRONICS  (3)
PR: EEL 3410, PHY 4604. A study of the basic principles and operations of lasers and analyses of power output and frequency pulling in laser oscillators.

EEL 6448 INTEGRATED OPTICS  (3)
PR: EEL 6447. A study of integrated optical devices and guided wave optical systems.

EEL 6449 OPTICS AND SYSTEMS  (3)
PR: EEL 4102 or PHS 5113. A study of optical applications of linear systems and fourier transforms.

EEL 6482, 6483, 6484 ELECTROMAGNETIC FIELDS AND WAVES I, II, III  (2,2,2)
PR: CC. Electromagnetic theory from the engineering point of view, propagation and reflection of waves, guided waves, resonant cavities, antennas and radiation.

EEL 6506 DATA TRANSMISSION  (2)
PR: EEL 6508. Quantization theory, binary coding systems ideal binary transmission, on-off keying, FSK, PSK, PCM applications.

EEL 6507 DATA TRANSMISSION II  (2)
PR: EEL 6506. M-ary systems-MASK, MFSK, MPSK, orthogonal systems, multilevel and multistate coding, simplex coding, orthogonal and biorthogonal codes, polysignal systems, synchronization methods.

EEL 6508 PULSE COMMUNICATIONS SYSTEMS  (2)
PR: CC. Sampling theory, pulse waveform generation and modulation. PAM, PPM, PPM, related multiplex systems, telemetry applications.

EEL 6522 INFORMATION THEORY  (3)
PR: CC. Concepts of information, information channels, channel capacity, information sources and Shannon's fundamental theorem.

EEL 6531, 6532, 6533 THEORY OF COMMUNICATION I, II, III  (2,2,2)
PR: CC. Physical basis and statistical representation of electrical noise; filtering, modulation, and de-modulation of signals corrupted by noise; correlation techniques and linear prediction; statistical estimation of signal parameter; optimum filters and receivers; ambiguity functions and bias probability; quantitative measure of information sources, noise channels and channel capacity; an introduction to error-correcting codes.

EEL 6563 OPTICAL FIBER COMMUNICATION  (3)
PR: EEL 6447. A study of fiber optic technology as applied to communications systems.

EEL 6613 MODERN CONTROL THEORY  (2)
PR: EEL 4656, EEL 5620, EEL 6631, EEL 6640 or CC. A study of modern control techniques including optimum and adaptive control.

EEL 6631 DIGITAL CONTROL SYSTEMS  (2)
PR: EEL 4656. Sample-data and digital control processes.

EEL 6640 RANDOM PROCESSES IN CONTROL SYSTEMS  (2)
PR: EEL 4656. Analysis and design of control systems subject to random inputs and disturbances.

EEL 6756 SPECIAL ANALYSIS BY COMPUTERS  (2)
PR: CC. Introduction to time series analysis by computers. Discrete Fourier methods applied to time series, sample spectrum, cross spectrum, smoothing of spectral estimators, distribution properties. Application to physical, biological and environmental problems.

EEL 6822 PATTERN RECOGNITION THEORY  (2)

EEL 6823 COMPUTER APPROACHES TO PATTERN RECOGNITION  (2)

EEL 6830 CODING THEORY I  (2)
PR: CC. Error-correcting codes, algebraic block codes, linear codes and feedback shift registers. BCH codes and decoding methods.

EEL 6831 CODING THEORY II  (2)

EEL 6840 AUTOMATA THEORY I  (2)

EEL 6841 AUTOMATA THEORY II  (2)

EEL 6842 AUTOMATA THEORY III  (2)

EEL 6908 INDEPENDENT STUDY  (var.)
Independent study in which Students must have a contract with an instructor. Repeatable. (S/U only.)

EEL 6932 ADVANCED ENGINEERING SEMINAR  (1-3)
PR: CC.

EEL 6935 SELECTED ELECTRICAL TOPICS  (1-3)
PR: CC.

EEL 6936 SPECIAL ELECTRICAL PROBLEMS  (1-3)
PR: CC.

EEL 6971 THESIS: MASTER'S  (var.)
Repeatable. (S/U only.)

EEL 7980 DISSERTATION: DOCTORAL  (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

ELR 6117 ELECTRICAL MEASUREMENTS  (2)
PR: CC. Advanced techniques and principles of electronic measurement.

ELR 6118 MEASUREMENTS LABORATORY  (1)
CR: ELR 6117

ELR 6918 DIRECTED RESEARCH  (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

ELR 6911 GRADUATE RESEARCH METHODS  (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit. Limited to a cumulative total of 5 credits per student. (S/U only.)

ELR 6940 GRADUATE INSTRUCTION METHODS  (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

ELR 7910 DIRECTED RESEARCH  (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

ENGINEERING TECHNOLOGY

UNDERGRADUATE COURSES

ETG 4931 SPECIAL TOPICS IN TECHNOLOGY I  (1-5)
PR: CC.
## UNDERGRADUATE COURSES

**EIN 4352 ENGINEERING ECONOMY II**
- PR: EGN 3613 or equivalent. Analysis of economic limitations on engineering projects. Income tax considerations, replacement models, MAPI, and obsolescence.

**EIN 436L PLANT FACILITIES DESIGN**
- PR: EIN 4313L. Design and modification of industrial production and material handling facilities. Basic analysis techniques, use of computer programs, automated warehousing.

**EIN 4393 TOPICS IN INDUSTRIAL ENGINEERING**
- PR: CC.

**ESI 4211 STATISTICAL QUALITY CONTROL**

**ESI 4314 DESIGN OF EXPERIMENTS I**
- PR: EGN 3443. Development of the basic statistical experimental designs applicable to engineering analyses. Analysis of variance and regression.

**ESI 4314 OPERATIONS RESEARCH I**
- PR: EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

**ESI 4315 OPERATIONS RESEARCH II**
- PR: EGN 3443, ESI 4314. A continuation of ESI 4314 with emphasis given to probabilistic models in Operations Research. Discrete and continuous time processes, queueing models, inventory models, simulation models, Markovian decision processes and decision analysis.

**ESI 4521 INDUSTRIAL SYSTEMS SIMULATION**
- PR: ESI 4315. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

**ESI 4573 NUMERICAL METHODS**
- PR: EGN 2210, one calculus course or CI. Numerical algorithms and methods for applications to engineering problems. Applications using FORTRAN language.

**ESI 490S INDEPENDENT STUDY**
- PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours. (S/U only.)

**ESI 4911 SENIOR PROJECT**
- PR: EIN 4312, ESI 4314, EGN 3443. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

### GRADUATE COURSES

**EIN 5101 ARBITRATION OF INDUSTRIAL ENGINEERING DISPUTES**
- Case studies in the arbitration of technical disputes involving job evaluation and classification, labor standards, wage incentives, crew size, etc.

**EIN 5218 HAZARDS CONTROL ENGINEERING**
- PR: Senior or graduate status. Open to non-majors. Nature of industrial accidents. Practices, standards, OSHA, and other governmental requirements for reducing accident frequency and severity in the industrial environment. Design measures for the prevention of health impairment due to non-accidental causes.

**EIN 5245 HUMAN FACTORS**
- PR: CC. A study of the human physiological limitations encountered in the design, analysis, and evaluation of man-machine systems.

**EIN 5253 HUMAN PROBLEMS IN AUTOMATION**
- The study of analysis of combined human operations, automated processes, and robotics in industrial environments.

**EIN 5361 INDUSTRIAL ENGINEERING CONCEPTS**
- PR: CC. Survey of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

**EIN 5345 INVENTORY CONTROL**
- PR: EIN 4335 or equivalent. Statistical models for analyzing alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.
EIN 5381 LOGISTICS ENGINEERING (3) PR: EGN 3443 or equivalent. Principles and practices of Logistics Engineering are covered. Statistical requirements, logistics support analysis, test and evaluation are considered.

EIN 5386 PROBLEMS IN ENGINEERING MANAGEMENT (3) A study of problems encountered by managers in the planning, organizing, allocating of resources, directing, and controlling technical activities.

EIN 5390 FORECASTING (3) Introduction to forecasting techniques used to plan and schedule production and inventory control functions. Smoothing and decomposition time-series methods, regression methods, and autoregressive/moving average methods are presented. Integrating forecasting and planning into the engineering organization is discussed.

EIN 5914, 5915, 5916 SPECIAL INDUSTRIAL PROJECTS I, II, III (1-3 each) PR: CC.

EIN 6247 MAN/MACHINE SYSTEMS (3) PR: EIN 5245. Application of human factors in the design and operation of man/machine systems. Analysis of the use of microprocessors and computer controlled devices in man/machine systems.

EIN 6336 PRODUCTION CONTROL SYSTEMS (3) PR: CC. Forecasting models, development of production plans, loading and scheduling models and basic inventory models. Use of MRP. Design and evaluation of production control systems.

EIN 6405 NONLINEAR AND DYNAMIC PROBLEMS (3) PR: EIN 4215 or equivalent. Optimization of nonlinear systems. General theory and existence theorems. Techniques of solution including quadratic, dynamic and geometric programming for discrete systems, continuous systems and variational methods.

EIN 6414 LINEAR PROGRAMMING (3) PR: EIN 4215 or equivalent. The Simplex method, degeneracy, sensitivity analysis, duality theory, network flow theory. Applications to industrial problems.

EIN 6550 INDUSTRIAL SYSTEMS DESIGN (3) PR: EIN 4251, EIN 4315 or equivalent. Design of integrated systems using statistical and operations research models. Digital simulation using several different digital simulation systems.

EIN 6552 EVALUATION OF SYSTEM PERFORMANCE (3) PR: EIN 4215, EIN 4315 or equivalent. Applications of probability and random processes to the design and evaluation of physical systems from the viewpoint of satisfying prescribed specifications.

EIN 6555 TOPICS IN AUTOMATION (3) PR: CC. Study of recent advances in automated systems, automation concepts, control methods, numerical control, adaptive control.

EIN 6906 INDEPENDENT STUDY (var.) Repeatable. (S/U only.) Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

EIN 6911 DIRECTED RESEARCH (var.) PR: GR. Master's level. Repeatable. (S/U only.)

EIN 6991 GRADUATE RESEARCH METHODS (1-5) Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

EIN 6992 GRADUATE INSTRUCTION METHODS (1-5) Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

EIN 7911 DIRECTED RESEARCH (var.) PR: GR. Ph.D. level. Repeatable. (S/U only.)

EIS 3300 SYSTEMS ANALYSIS (3) PR: EGN 3443 or equivalent. Topics in statistical methodology which have applications in reliability. Discrete and continuous distribution models, reliability estimation, reliability structure and growth models, and statistical design for reliability.

EIS 6247 STATISTICAL DESIGN MODELS (3) PR: ESI 5219 or equivalent. Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems.

EIS 6291 SPECIAL TOPICS IN STATISTICS (3) PR: CC. Special topics in statistics related to research in engineering.

EIS 6336 QUEUEING THEORY (3) PR: ESI 4315. Introduction to queueing models. Poisson queues, non-Poisson queues, decision models, transient analysis and special queueing topics.


EIS 6405 NONLINEAR AND DYNAMIC Programmer (3) PR: ESI 4315 or equivalent. Optimization of nonlinear systems. General theory and existence theorems. Techniques of solution including quadratic, dynamic and geometric programming for discrete systems, continuous systems and variational methods.

EIS 6414 LINEAR PROGRAMMING (3) PR: ESI 4315 or equivalent. The Simplex method, degeneracy, sensitivity analysis, duality theory, network flow theory. Applications to industrial problems.

EIS 6550 INDUSTRIAL SYSTEMS DESIGN (3) PR: ESI 4251, ESI 4315 or equivalent. Design of integrated systems using statistical and operations research models. Digital simulation using several different digital simulation systems.

EIS 6552 EVALUATION OF SYSTEM PERFORMANCE (3) PR: ESI 4215, ESI 4315 or equivalent. Applications of probability and random processes to the design and evaluation of physical systems from the viewpoint of satisfying prescribed specifications.

EIS 6555 TOPICS IN AUTOMATION (3) PR: CC. Study of recent advances in automated systems, automation concepts, control methods, numerical control, adaptive control.

EIS 6906 INDEPENDENT STUDY (var.) Repeatable. (S/U only.) Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

EIS 6911 DIRECTED RESEARCH (var.) PR: GR. Master's level. Repeatable. (S/U only.)

EIS 6991 GRADUATE RESEARCH METHODS (1-5) Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

EIS 6992 GRADUATE INSTRUCTION METHODS (1-5) Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

EIS 7911 DIRECTED RESEARCH (var.) PR: GR. Ph.D. level. Repeatable. (S/U only.)

EIS 7990 DISSERTATION: DOCTORAL (var.) PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

COMPUTER SERVICE COURSES

(No credit for Engineering Majors)

UNDERGRADUATE COURSES

CDA 3101 SC INTRODUCTION TO COMPUTERS II (3) PR: CDA 3100. Number systems. Internal representation of data and instructions. Algorithms and flowcharting. Introduction to machine and assembler language and higher level language.
CDA 3102 SC INTRODUCTION TO COMPUTERS III (3)
PR: CDA 3101. Continuation of CDA 3101. Introduction to large computer systems assembler language and applications.

CDA 4152 SC MINI-COMPUTER APPLICATIONS (3)
PR: COP 4530. Study of mini-computer system components, I-O devices, theory of computer operation.

COC 3300 SC INTRODUCTION TO COMPUTERS AND PROGRAMMING IN BASIC (3)
An overview of computer systems and their role in society. Survey of the evolution of computer software and hardware technology with emphasis on current applications. Introduction to programming using the BASIC language.

COP 3110 SC FORTRAN PROGRAMMING (3)
PR: COC 3300. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.

COP 3120 SC COBOL PROGRAMMING I (3)

COP 3121 SC COBOL PROGRAMMING II (3)
PR: COP 3120. Advanced applications of ANSI Standard COBOL. Development of subroutines, relative I-O and data base applications as used in a comprehensive data processing environment.

COP 3130 SC PL/I PROGRAMMING (3)

COP 3155 SC APL PROGRAMMING (3)
PR: COC 3300. The use of the APL language is an interactive mode to solve business and scientific programs.

COP 3180 SC PASCAL PROGRAMMING (3)
PR: COC 3300. Structured programming implemented with the PASCAL language. Emphasis on program structure and data manipulation.

COP 3300 SC GPSS SIMULATION (3)
PR: COP 3110. The development and execution of discrete event simulation models of real world systems using the GPSS language.

COP 3310 SC SIMSCRIPT SIMULATION (3)

COP 4204 SC COMPUTER APPLICATIONS (3)
PR: COP 3110. Applications of various high level languages to current scientific and engineering problems.

COP 4530 SC DATA REPRESENTATION AND MANIPULATION (3)
PR: CDA 3101. Study of the internal representations of data, data storage and retrieval, and data manipulations.

GRADUATE COURSES

CAP 5812 SC COMPUTERS FOR RESEARCH I (3)
PR: Graduate student status. The use of the FORTRAN language in solving research problems.

CAP 6813 SC COMPUTERS FOR RESEARCH II (3)
PR: CAP 5812 or equivalent. Continuation of the material covered in CAP 5812. Use of computer libraries, plotting equipment and statistical packages.

COLLEGE OF FINE ARTS

ART

UNDERGRADUATE COURSES

ARH 3000 INTRODUCTION TO ART (4)
An expanded introductory treatment of basic concepts. For art majors and non-majors.

ARH 4100 PREHISTORIC AND ANCIENT ART (4)
A comprehensive study of Paleolithic, Neolithic, Egyptian, Assyrian and Mesopotamian painting, sculpture and architecture.

ARH 4170 GREEK AND ROMAN ART (4)
A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

ARH 4200 MEDIEVAL ART (4)
A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture and architecture in Italy and Northern Europe.

ARH 4301 RENAISSANCE ART (4)
A comprehensive study of Renaissance and Manierist painting, sculpture and architecture in Italy and Northern Europe.

ARH 4350 BAROQUE AND ROCOCO ART (4)
A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

ARH 4430 NINETEENTH CENTURY ART (4)
A comprehensive study of nineteenth century painting, sculpture and architecture in France and England.

ARH 4450 TWENTIETH CENTURY ART (4)
A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.

ARH 4530 ORIENTAL ART (4)
An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

ARH 4743 INTRODUCTION TO THE PERSONAL FILM (4)
PR: ART 3630C. Comparison of philosophical and technical distinctions between the personal film and theatrical or commercial releases.

ARH 4746 ANATOMY OF THE COLLABORATIVE FILM (4)
PR: ART 4631C. Analysis of aesthetic and other selected aspects of film produced through collaborative efforts. May be repeated.

ARH 4790 SELECTED TOPICS IN THE HISTORY OF FILM (4)
In-depth investigation of a selected period, development, or school in the history of film as art. May be repeated.

ARH 4796 CRITICAL STUDIES IN ART HISTORY (4)
PR: CI. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.

ARH 4937 SEMINAR IN THE HISTORY OF ART (4)
PR: Four courses in Art History at the 4000 level, CI. An examination of the origins of Art History as a discipline and discipline and changing nature of Art History from Vasari to the present.

ART 2200C VISUAL CONCEPTS I (4)
Studio problems supplemented by reading and discussion. Consideration of spatial organization of the two-dimensional surface.

ART 2203C VISUAL CONCEPTS II (4)
Studio problems supplemented by reading and discussion. Consideration of three-dimensional organization of space and mass.

ART 3110C CERAMICS I (4)
PR: Visual Concepts II and Introduction to Art. Intermediate problems in ceramics with emphasis on the exploration of methods and media and the development of individual concepts.
ART 3301C DRAWING I

ART 3420 LITHOGRAPHY I
PR: Visual Concepts I. Introduction to Art and Drawing I. Intermediate problems in lithography with emphasis on the exploration of methods and media and the development of individual concepts.

ART 3470 INTAGLIO I
PR: Visual Concepts I. Introduction to Art and Drawing I. Intermediate problems in intaglio with emphasis on the exploration of methods and media and the development of individual concepts.

ART 3510C PAINTING I

ART 3600C PHOTOGRAPHY I
PR: Visual Concepts I and Introduction to Art. Intermediate problems in photography with emphasis on the exploration of materials and media and the development of individual concepts.

ART 3630C CINEMATOGRAPHY I
PR: Visual Concepts I and Introduction to Art. Intermediate problems in cinematography with emphasis on the exploration of materials and media and the development of individual concepts.

ART 3701C SCULPTURE I
PR: Visual Concepts II and Introduction to Art. Intermediate problems in sculpture with emphasis on the exploration of materials and media and the development of individual concepts.

ART 3935 STUDIO TECHNIQUES: SELECTED PROJECTS
PR: Visual Concepts I, II and Introduction to Art and CI. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

ART 4111C CERAMICS II
PR: ART 3110C. Continued problems in ceramics. May be repeated.

ART 4320C DRAWING II
PR: ART 3301C. Continued problems in drawing. May be repeated.

ART 4421C LITHOGRAPHY II
PR: ART 3420. Continued problems in lithography. May be repeated.

ART 4471C INTAGLIO II
PR: ART 3470. Continued problems in intaglio. May be repeated.

ART 4520C PAINTING II
PR: ART 3510C. Continued problems in painting. May be repeated.

ART 4601C PHOTOGRAPHY II
PR: ART 3600C. Continued problems in photography. May be repeated.

ART 4631C CINEMATOGRAPHY II
PR: ART 3630C. Continued problems in cinematography. May be repeated.

ART 4632C SOUND TECHNIQUES
PR: ART 3630C. The recording and editing of sound for film. Collaboration with other departments, particularly Music and Theatre, is encouraged. To be taken concurrently with ART 4631C or ART 5642C whenever possible.

ART 4702C SCULPTURE II
PR: ART 3701C. Continued problems in sculpture. May be repeated.

ART 4900 DIRECTED READING
PR: CI and CC. A course of reading and study in an area of special concern governed by student demand, instructor interest, and/or departmental requirements. Registration by contract only. May be repeated for credit for different study areas only.

ART 4905 DIRECTED STUDY
PR: CC. Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. May be repeated.

ART 4935 ART SENIOR SEMINAR
PR: Senior Status. To aid majors to understand, appraise, and perfect their own art and technique through critical and aesthetic judgments of their colleagues. Discussion and critical evaluation.

GRADUATE COURSES

Admission to all 5000 level studio courses by Consent of Instructor.

ART 5125C CERAMICS
PR: ART 4111C. Advanced problems in the various ceramic techniques including throwing and glaze calculation. May be repeated.

ART 5340C DRAWING
PR: ART 4320C. Advanced problems in various drawing techniques. Emphasis on individual creative expression. May be repeated.

ART 5422C LITHOGRAPHY
PR: ART 4421C. Advanced problems in various lithographic techniques. Emphasis on individual creative expression. May be repeated.

ART 5472C INTAGLIO
PR: ART 4471C. Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media. May be repeated.

ART 5532C PAINTING
PR: ART 4520C. Advanced problems in the various painting techniques. Emphasis on individual creative expression. May be repeated.

ART 5604C PHOTOGRAPHY
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.

ART 5642C CINEMATOGRAPHY
PR: ART 4631C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions. May be repeated.

ART 5730C SCULPTURE
PR: ART 4702C. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. May be repeated.

ART 5910 RESEARCH
PR: CC. May be repeated.

ART 5936 STUDIO TECHNIQUES: SELECTED TOPICS
PR: Visual Concepts I, II, and Introduction to Art, the topic-technique-related 3000-4000 level studio sequence and CI. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

ART 6126C CERAMICS
PR: CI. May be repeated.

ART 6314C DRAWING
PR: CI. May be repeated.

ART 6423C LITHOGRAPHY
PR: CI. May be repeated.

ART 6473C INTAGLIO
PR: CI. May be repeated.

ART 6580C PAINTING
PR: CI. May be repeated.

ART 6628C PHOTOGRAPHY
PR: CI. May be repeated.

ART 6645C CINEMATOGRAPHY
PR: CI. May be repeated.

ART 6731C SCULPTURE
PR: CI. May be repeated.

ART 6907 INDEPENDENT STUDY
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

ART 6911 DIRECTED RESEARCH
PR: GR. Master's level. Repeatable. (S/U only.)

ART 6936 GRADUATE SEMINAR
PR: CI. Advanced course in theoretical and conceptual foundations of the visual arts. The specific structure and content to be determined by the instructor. Must be repeated for a minimum of four hours.

ART 6937 GRADUATE INSTRUCTION METHODS
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

ART 6940 SELECTED TOPICS IN ART
PR: Graduate Standing and CI. Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty. May be repeated.

ART 6956 GRADUATE STUDY THESIS
DOCUMENTATION
PR: CI. An advanced seminar focused on the problems of documenting in verbal form the development of a body of work in the visual arts.

ART 6971 THESIS: MASTER'S
Repeatable. (S/U only.)
DANCE


UNDERGRADUATE COURSES

DAA 2100 FUNDAMENTALS OF MODERN DANCE I (2)
To acquaint beginning modern dance students with fundamentals of dance vocabulary, movement, rhythm and alignment.

DAA 2160 MODERN DANCE II (3)
PR: Admission by audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. May be repeated. (Ballet requirement)

DAA 2200 FUNDAMENTALS OF BALLET I (2)
To acquaint beginning ballet dance students with fundamentals of vocabulary, movement, rhythm and alignment.

DAA 2201 BALLET II (3)
PR: Admission by audition. Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated. (Modern requirement)

DAA 3161 MODERN DANCE III (3)
PR: Admission by audition. Continuation of DAA 2160. Further emphasis on style and phrasing. Work in projecting mood and quality by dancing and rehearsing in more advanced student choreography, leading to performance. Rehearsal hours to be arranged. May be repeated.

DAA 3202 BALLET III (3)
PR: Admission by audition. Intensification of barre exercises for the development of strength and form. Most of the ballet steps are introduced. Application of phrasing and movement. Material covered as practical work in class for concerts and performances. Rehearsal hours to be arranged. May be repeated.

DAA 3220 BALLET VARIATIONS (1)
PR: DAA 3202. This course introduces fundamental exercises for the development of pointe technique. Material covered may also be pas de deux, character, and variations. Must be repeated for a total of 4 hours by majors in ballet concentration. May be repeated.

DAA 3502 JAZZ DANCE (2)
PR: Admission by audition, DAA 2201 or 2160. A technique class for the intermediate trained dancer to become acquainted with the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement on a strong rhythmic base. May be repeated.

DAA 3503 JAZZ THEATRE DANCE (3)
PR: Admission by audition and DAA 3502. Continuation of DAA 3502. Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Solo and ensemble studies leading to performance. May be repeated.

DAA 3700 CHOREOGRAPHY I (2)
Study and execution of basic principles of composition. Preparation of studies in theme and variations, barre phrases and metric phrases. May be repeated.

DAA 3701 CHOREOGRAPHY II (2)
PR: DAA 3700 or CI. Preparation of studies in rhythm, dynamics, form and motivation, culminating in a solo. May be repeated.

DAA 4162 MODERN DANCE IV (4)
PR: Admission by audition. Intensive work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. Rehearsal hours to be arranged. May be repeated.

DAA 4203 BALLET IV (4)
PR: Admission by audition. Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. A few outside projects, concerts, and performances required. Rehearsal hours to be arranged. May be repeated.

DAA 4702 CHOREOGRAPHY III (2)
PR: DAA 3701 or CI. Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. The best dances will be performed and fully produced under supervision of student choreographers.

Music


DAN 4703 CHOREOGRAPHY IV (2)
PR: DAA 4702. The student will prepare studies based on free form, minimal art, and chance methods. Lex-lab., reading. May be repeated.

DAN 3100 INTRODUCTION TO DANCE (2)
For non-dance majors, a study of the art of dance. Activities including modern, ballet, jazz, ethnic, and tap. DAN 3100 may be used for University General Distribution Requirement by the non-major; and may be used to satisfy part of the 6 hour In-College Requirement for Fine Arts Majors in Art, Music and Theatre.

DAN 3590 PRACTICUM IN DANCE PRODUCTION I (1-4)
A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costuming, set preparation, light presentation, stage management and production crew. Dance majors must have at least 2 credits for graduation accumulated in two different semesters.

DAN 3610 MUSIC FOR DANCE (2)
Development of practical music skills in relation to dance. Emphasis on rhythm and the relationship of music forms to dance. May be repeated up to 4 credit hours.

DAN 3611 MUSIC FOR DANCE II (2)
PR: DAN 3610 or CI. Elements of music within historical context. Continued problems in rhythmic materials.

DAN 3710 REPERTORY (1)
The development and performance of solo and/or group dances. Open to all University students by audition. May be repeated.

DAN 4120 SURVEY HISTORY OF DANCE (3)
Survey history of dance. Study of development of dance from its inception through 18th Century. Social and theatrical dance forms, ethnic dance included.

DAN 4151 19TH AND 20TH CENTURY DANCE (3)
Survey history of dance. Study of development of dance from 19th Century through 20th Century. Theatrical and other expressive forms included. Reading, lecture and visual aids.

DAN 4170 DANCE SENIOR SEMINAR (2)
PR: Senior or CC. To aid majors to understand, appraise and perfect their own art and technique through critical and aesthetic judgments of their colleagues.

DAN 4495 DIRECTED READING (2)
PR: CI and CC. Readings in 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.

DAN 4906 DIRECTED STUDY (1-5)
PR: CC. Independent studies in the various areas of Dance. Course of study and credits must be assigned prior to registration. May be repeated.

DAN 4930 SELECTED TOPICS IN DANCE (1-5)
PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

MUSIC
UNDERGRADUATE COURSES

MUC 2202 COMPOSITION (3)  
PR: MUT 1113 and Cl. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 2301 INTRODUCTION TO ELECTRONIC MUSIC (2)  
History and repertory of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music, composition and electronic music.

MUC 3203 COMPOSITION (3)  
PR: Necessary competency at MUC 2202 level determined by faculty jury. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 3401, 3402 ELECTRONIC MUSIC—ANALOG SYNTHESIS (3)  
PR: MUC 2301 and Cl. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441, 3442 ELECTRONIC MUSIC—DIGITAL SYNTHESIS (3,3)  
PR: MUC 2301 and Cl. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 3501, 3602 CONTEMPORARY TECHNIQUES OF COMPOSITION (3,3)  
PR: CI. Instruction in the use of major Twentieth-Century compositional techniques; tonal, unordered set, and serial composition and the use of indeterminacy in composition and performance.

MUC 4204 COMPOSITION (3)  
PR: Necessary competency at MUC 3203 level determined by faculty jury. Private instruction in original composition. Required of composition majors. Must be repeated for credit for a minimum of 6 hours for majors.

MUC 4405, 4406 ELECTRONIC MUSIC—REAL-TIME PERFORMANCE (3,3)  
PR: MUC 3402 and MUC 3442 or equivalent. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4501 SEMINAR IN NEW MUSICAL SYSTEMS (2)  
PR: CI. Experimental sound sources and ensemble groupings; creating of new instruments; unfamiliar sonic materials and unique social contexts for music. May be repeated for credit.

MUG 3101 BASIC CONDUCTING (2)  
PR: CI. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical organizations.

MUG 4201 CHORAL CONDUCTING (2)  
PR: MUG 3101 or its equivalent and Cl. Practical application of conducting techniques to choral works, score study, performance practices, and rehearsal techniques. Class serves as performing group.

MUG 4301 INSTRUMENTAL CONDUCTING (2)  
PR: MUG 3101 & CI. A study of those techniques of conducting unique to instrumental music ensembles: baton technique, scoring reading, terminology, rehearsal management.

MUL 3016 HISTORY OF POPULAR MUSIC (2)  
Popular music in the U.S. from 1820 to the present. Units on the big band era, country and western, jazz, Black music, and the rock scene beginning in 1955. May be used for University General Distribution Requirements and may be used to satisfy part of the 6 hours in College Requirement for Fine Arts majors in Art, Dance, Theatre and as a music elective.

MUL 3211, 3212 MUSIC HISTORY (3,3)  
PR: CI. Required of music majors; a survey of the historical development of musical styles and of the music representative of those styles.

MUL 3803 SURVEY OF JAZZ (2)  
Open only to non-music majors. A study of jazz, its heritage, personalities and music. Emphasis is placed on the development of listening techniques.

MUL 4803 HISTORY OF JAZZ (2)  
PR: CI. A study of the evolution of jazz, 1890 to present. Open to majors and non-majors.

MUL 2111, 2112 INTRODUCTION TO MUSIC LITERATURE (2,2)  
PR: MUT 1112 or Cl. A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music majors.

MUL 3001 ISSUES IN MUSIC (2)  
Open only to non-music majors; lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer. This course is also available on WUSF/TV Channel 16 by the O.U. Program. (S/U only.)

MUL 3011, 3012 THE ENJOYMENT OF MUSIC (2,2)  
Open only to non-music majors; a study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.

MAJOR PERFORMING ENSEMBLES (below)  
PR: CI. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.

MUN 3100 UNIVERSITY BAND (1)  
MUN 3140 WIND ENSEMBLE (1)  
MUN 3210 UNIVERSITY ORCHESTRA (1)  
MUN 3310 UNIVERSITY SINGERS (1)  
MUN 3380 UNIVERSITY-COMMUNITY CHORUS (1)  
MUN 3451 PIANO ENSEMBLE (1)  
MUN 3501 OPERA WORKSHOP (1)  
MUN 3710 JAZZ ENSEMBLE (1)  
MUN 3711 JAZZ CHAMBER ENSEMBLE (1)  

CHAMBER MUSIC ENSEMBLES (below)  
PR: CI. Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano; may be repeated for credit.

MUN 3340 CHAMBER SINGERS (1)  
MUN 3411 STRING QUARTET (1)  
MUN 3412 FLUTE CHOIR (1)  
MUN 3420 SAXOPHONE ENSEMBLE (1)  
MUN 3423 CLARINET CHOIR (1)  
MUN 3426 WOODWIND QUINTET (1)  
MUN 3430 BRASS CHOIR (1)  
MUN 3432 HORN QUARTET (1)  
MUN 3436 BRASS QUINTET (1)  
MUN 3440 PERCUSSION ENSEMBLE (1)  
MUN 3441 MARIMBA ENSEMBLE (1)  
MUN 3470 COLLEGIUM MUSICUM (1)  

MVS 3492 CLASSICAL GUITAR ENSEMBLE (1)  

MUS 4900 DIRECTED READING (1-3)  
MUS 4905 DIRECTED STUDY (1-4)  
PR: CI and CC. Readings in 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.

PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 4930 SELECTED TOPICS IN MUSIC (1-4)  
PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

MUS 4931 SELECTED STUDY TOPICS IN MUSIC (1-4)  
PR: CI. The content of the study will be governed by individual student demand and instructor interest with an emphasis on individual instruction.

MUS 4932 MUSIC SENIOR SEMINAR (2)  
PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (S/U only.)

MUT 1001 RUDIMENTARY MUSIC (2)  
Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

MUT 1111, 1112 MUSIC THEORY (3,3)  
PR: CI. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis of examples from all historical periods of music literature.

MUT 1241, 1242 AURAL THEORY (1,1)  
PR: CI. Course designed to begin training in aural recognition and
vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUT 1111, 1112.

MUT 2116, 2117 MUSIC THEORY (3,3)
PR: MUT 1112. Required of music majors, continuation of MUT 1111 and 1112.

MUT 2246, 2247 ADVANCED AURAL THEORY (1,1)
PR: MUT 1243. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUT 2116, 2117.

MUT 3353 JAZZ COMPOSITION AND ARRANGING I (3)
PR: MUT 1112 and CI. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

MUT 3354 JAZZ COMPOSITION AND ARRANGING II (3)
PR: MUT 1112 and CI. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

MUT 3641 JAZZ THEORY AND IMPROVISATION I (2)
PR: MUT 1112 and/or CI. A study of jazz improvisational techniques and related jazz theory.

MUT 3642 JAZZ THEORY AND IMPROVISATION II (2)
PR: MUT 1112 or CI. A study of jazz improvisational techniques and related jazz theory.

MUT 3664 JAZZ STYLES AND ANALYSIS I (2)
PR: MUT 3642 or CI. A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of the students own solosing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 3665 JAZZ STYLES AND ANALYSIS II (2)
PR: Jazz Styles and Analysis I or CI. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 4342 JAZZ IMPROVISATION II (1)
PR: MUT 1112 & CI. A studio course of study designed to advance the student’s improvisational techniques; emphasis on individual performance. May be repeated for credit.

MUT 4311, 4312 ORCHESTRATION (2,2)
PR: CI. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 4411 SIXTEENTH CENTURY PRACTICE (2)
PR: MUT 2117. A study of the music of the 16th century from a theoretical standpoint; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

MUT 4412 EIGHTEENTH CENTURY PRACTICE (2)
PR: MUT 2117. An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

MUT 4431 TWENTIETH CENTURY PRACTICE (2)
PR: MUT 2117. A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

SECOND APPLIED MUSIC COURSES (below)
PR: CI. One-half hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of non-music majors who have had prior musical training. Course is open by audition only.

MVB 1211 APPLIED TRUMPET (1)
MVB 1212 APPLIED FRENCH HORN (1)
MVB 1213 APPLIED TROMBONE (1)
MVB 1214 APPLIED BARITONE (1)
MVB 1215 APPLIED TUBA (1)
MVK 1211 APPLIED PIANO (1)
MVP 1211 APPLIED PERCUSSION (1)
MVS 1211 APPLIED VIOLIN (1)
MVS 1212 APPLIED VIOLA (1)
MVS 1213 APPLIED VIOLONCELLO (1)
MVS 1214 APPLIED DOUBLE BASS (1)
MVS 1215 APPLIED HARP (1)
MVS 1216 APPLIED CLASSICAL GUITAR (1)

MVM 1211 APPLIED VOICE (1)
MVM 1211 APPLIED FLUTE (1)
MVM 1212 APPLIED OBOE (1)
MVM 1213 APPLIED CLARINET (1)
MVM 1214 APPLIED BASSOON (1)
MVM 1215 APPLIED SAXOPHONE (1)

CLASS PIANO COURSES (below)
PR: CI. Cl. Class is for piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 1111 MUSIC MAJORS, LEVEL I (2)
MVK 1112 MUSIC MAJORS, LEVEL II (2)
MVK 2111 MUSIC MAJORS, LEVEL III (2)
MVK 2112 MUSIC MAJORS, LEVEL IV (2)
MVK 3111 MUSIC MAJORS, LEVEL V (2)
MVK 3112 MUSIC MAJORS, LEVEL VI (2)
MVK 1821 NON-MUSIC MAJORS, LEVEL I (2)
MVK 2811 NON-MUSIC MAJORS, LEVEL II (2)
MVK 2821 NON-MUSIC MAJORS, LEVEL IV (2)

APPLIED MUSIC COURSES (below)
PR: CI. Required of all applied music majors; open to a limited number of non-music majors by audition only. Private and class instruction in string, woodwind, brass and percussion instruments, voice and piano. May be repeated for credit.

MVB 1411 APPLIED TRUMPET (3)
MVB 1412 APPLIED FRENCH HORN (3)
MVB 1413 APPLIED TROMBONE (3)
MVB 1414 APPLIED BARITONE (3)
MVB 1415 APPLIED TUBA (3)
MVK 1411 APPLIED PIANO (3)
MVP 1411 APPLIED PERCUSSION (3)
MVS 1411 APPLIED VIOLIN (3)
MVS 1412 APPLIED VIOLA (3)
MVS 1413 APPLIED VIOLONCELLO (3)
MVS 1414 APPLIED DOUBLE BASS (3)
MVS 1415 APPLIED HARP (3)
MVS 1416 APPLIED CLASSICAL GUITAR (3)
MVM 1411 APPLIED VOICE (3)
MVM 1411 APPLIED FLUTE (3)
MVM 1412 APPLIED OBOE (3)
MVM 1413 APPLIED CLARINET (3)
MVM 1414 APPLIED BASSOON (3)
MVM 1415 APPLIED SAXOPHONE (3)

APPLIED MUSIC COURSES (below)
PR: CI. Necessary competency at freshman level determined by faculty jury examination. Required of all applied music majors. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit three semesters only.

MVB 2421 APPLIED TRUMPET (3)
MVB 2422 APPLIED FRENCH HORN (3)
MVB 2423 APPLIED TROMBONE (3)
MVB 2424 APPLIED VIOLIN (3)
MVB 2425 APPLIED TUBA (3)
MVK 2421 APPLIED PIANO (3)
MVP 2421 APPLIED PERCUSSION (3)
MVS 2421 APPLIED VIOLA (3)
MVS 2422 APPLIED VIOLA (3)
MVS 2423 APPLIED VIOLONCELLO (3)
MVS 2424 APPLIED DOUBLE BASS (3)
MVS 2425 APPLIED HARP (3)
MVS 2426 APPLIED CLASSICAL GUITAR (3)
MVM 2421 APPLIED VOICE (3)
MVM 2421 APPLIED FLUTE (3)
MVM 2422 APPLIED OBOE (3)
MVM 2423 APPLIED CLARINET (3)
MVM 2424 APPLIED BASSOON (3)
MVM 2425 APPLIED SAXOPHONE (3)

APPLIED MUSIC COURSES (below)
PR: Necessary competency at sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit three semesters only.

MVB 3431 APPLIED TRUMPET (3)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUL 6410</td>
<td>6411 KEYBOARD REPERTORY</td>
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<tr>
<td>MUL 6505</td>
<td>SYMPHONIC LITERATURE</td>
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<tr>
<td>MUL 6565</td>
<td>CHAMBER MUSIC LITERATURE</td>
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<td>MUL 6624</td>
<td>6625 SONGS LITERATURE</td>
<td></td>
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<td>MUL 6663</td>
<td>OPERA LITERATURE</td>
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<tr>
<td>MUL 6687</td>
<td>SOLO VOCAL LITERATURE IN ORATORIO</td>
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<tr>
<td>MUL 6340</td>
<td>CHAMBER SINGERS</td>
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<td>MUS 5905</td>
<td>DIRECTED STUDY</td>
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<tr>
<td>MUS 5924</td>
<td>BAND WORKSHOP</td>
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<td>MUS 5927</td>
<td>ORCHESTRA WORKSHOP</td>
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<td>MUS 5928</td>
<td>PIANO WORKSHOP</td>
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<td>MUS 5929</td>
<td>STRING WORKSHOP</td>
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<td>MUC 6251</td>
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<td>MUC 6444</td>
<td>ELECTRONIC MUSIC/ANALOG/</td>
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<td>DIGITAL SYSTEMS RESEARCH</td>
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<td>MUG 6256</td>
<td>6257, 6258 CHORAL LITERATURE AND</td>
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<tr>
<td>MUL 6375</td>
<td>TWENTIETH CENTURY MUSIC LITERATURE</td>
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</tbody>
</table>

**PR:** Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

**PR:** Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

**PR:** State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.

**PR:** Combination of seminar, classroom and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.

**PR:** A study of the literature, compositional techniques and music philosophies of the major 20th century composers from Debussy to the present.
MUS 6906 INDEPENDENT STUDY
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MUS 6910 DIRECTED RESEARCH
PR: GR. Master’s level. Repeatable. (S/U only.)

MUS 6971 THESIS: MASTER’S
Repeatable. (S/U only.)

MUS 6976 GRADUATE RECITAL
(2)

MUS 6994 GRADUATE INSTRUCTION METHODS
(1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

MUS 6995 GRADUATE RESEARCH METHODS
(1-4)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per students. (S/U only.)

MUT 5051 GRADUATE REVIEW OF MUSIC THEORY
(1-4)
A graduate level review of basic theoretical materials used in teaching the individual student in performance. The course serves to satisfy deficiencies in music theory and as such does not count toward the degree.

MUT 6535 CRITICAL ANALYSIS - THEORY
(2)
PR: CI. A study of analytical procedures and compositional practices from the common practice period. An emphasis on consistent practices that provide a theoretical basis for composition and/or performance.

MUT 6547 CRITICAL ANALYSIS - HISTORY
(2)
PR: CI. A study of historical developments of music in western civilization. The emphasis will be placed on a different historical period each semester, from the Middle Ages through the Romantic Period. May be repeated up to 6 hours.

MUT 6629 ANALYTICAL SYSTEMS
(2)
PR: CI. May not be repeated. The investigation and practical application of various systems of musical analysis from traditional to the alternative systems of Schenker, Reti, Schoenberg, etc.

MUT 6751 TEACHING OF MUSIC THEORY
(3)
PR: CI. Comparative study of teaching techniques, procedures, and materials used in teaching the individual student in performance.

MUT 6760 HISTORY OF MUSIC THEORY
(2)
PR: CI. History of the evolution of the materials of Western music to include tuning systems, scales, modes, tonality, rhythm, counterpoint and harmony. Includes the exploration of treatises and theorists contributing to this evolution.

APPLIED MUSIC COURSES (below)
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Private and class instruction.

MVW 6253 APPLIED CLARINET, SECONDARY
(2)
MVW 6254 APPLIED BASSOON, SECONDARY
(2)
MVW 6255 APPLIED Saxophone, SECONDARY
(2)
MVW 6451 APPLIED FLUTE
(4)
MVW 6452 APPLIED OBOE
(4)
MVW 6453 APPLIED CLARINET
(4)
MVW 6454 APPLIED BASSOON
(4)
MVW 6455 APPLIED SAXOPHONE
(4)

MUS 6535 CRITICAL ANALYSIS - THEORY
(2)
PR: CI. A study of analytical procedures and compositional practices from the common practice period. An emphasis on consistent practices that provide a theoretical basis for composition and/or performance.

MUT 6547 CRITICAL ANALYSIS - HISTORY
(2)
PR: CI. A study of historical developments of music in western civilization. The emphasis will be placed on a different historical period each semester, from the Middle Ages through the Romantic Period. May be repeated up to 6 hours.

MUT 6629 ANALYTICAL SYSTEMS
(2)
PR: CI. May not be repeated. The investigation and practical application of various systems of musical analysis from traditional to the alternative systems of Schenker, Reti, Schoenberg, etc.

MUT 6751 TEACHING OF MUSIC THEORY
(3)
PR: CI. Comparative study of teaching techniques, procedures, and materials used in teaching the individual student in performance.

MUT 6760 HISTORY OF MUSIC THEORY
(2)
PR: CI. History of the evolution of the materials of Western music to include tuning systems, scales, modes, tonality, rhythm, counterpoint and harmony. Includes the exploration of treatises and theorists contributing to this evolution.

APPLIED MUSIC COURSES (below)
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Private and class instruction.

MVW 6253 APPLIED CLARINET, SECONDARY
(2)
MVW 6254 APPLIED BASSOON, SECONDARY
(2)
MVW 6255 APPLIED SAXOPHONE, SECONDARY
(2)
MVW 6451 APPLIED FLUTE
(4)
MVW 6452 APPLIED OBOE
(4)
MVW 6453 APPLIED CLARINET
(4)
MVW 6454 APPLIED BASSOON
(4)
MVW 6455 APPLIED SAXOPHONE
(4)

MUSIC EDUCATION

Chairperson: L. R. Cullison: Professors: V.A. Bridges; Assistant Professor: C. Doane, T.B.A.

UNDERGRADUATE COURSES

MUE 2420 THEORETICAL BASES OF MUSIC EDUCATION
The course is designed to investigate music education practices in the schools. It provides the student with experience and information early in his academic career which will enable him to determine his commitment to professional music education.

MUE 3411 CHORAL MATERIALS PRACTICUM
PR: CI. A study of choral materials in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3413 BAND MATERIALS PRACTICUM
PR: CI. A study of band materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3414 ORCHESTRA MATERIALS PRACTICUM
PR: CI. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 4050 FOUNDATIONS OF INSTRUMENTAL MUSIC
PR: CI. Junior standing. Introduction to the foundation of instrumental music instruction in the elementary and middle school.

MUE 4120 CLASSROOM MUSIC IN THE SECONDARY SCHOOL
PR: CI. Development and implementation of methods and techniques for teaching music to the student not participating in secondary school music performing groups.

MUE 4314 MUSIC IN THE ELEMENTARY SCHOOL
A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL
MUE 4480 BAND PAGEANTRY (1)  
This course is designed as an elective offering for instrumental music majors who expect to direct band activities in a secondary school. It will provide the student with skills in creating halftime shows, and integral part of the band teacher's responsibilities.

MUE 4905 INDEPENDENT STUDY: MUSIC EDUCATION (1-4)  
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

MUE 4909 DIRECTED STUDY: MUSIC EDUCATION (1-3)  
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

MUE 4936 SENIOR SEMINAR IN MUSIC (2)  

MUE 4940 INTERNSHIP: MUSIC EDUCATION (1-12)  
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

MUE 4945 INTERNSHIP (1-4)  
Part-time internship in an accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of the year experiences when taken in Fall Semester. (S/U only.)

MUE 4946 INTERNSHIP (1-2)  
PR: Admission to the College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of an academic year or program closing. (S/U only.)

GRADUATE COURSES

MUE 6080 FOUNDATIONS AND PRINCIPLES OF MUSIC EDUCATION (3)  
PR: Acceptance into Music Education Graduate Program or CI. Investigation of historical, philosophical and psychological foundations of music education.

MUE 6116 ADVANCED ELEMENTARY SCHOOL MUSIC (3)  
PR: Acceptance in the Music Education Graduate Program or CI. Study and appraisal of children's musical growth, curriculum plans, materials and teaching techniques essential for the sequential development of musical learning.

MUE 6189 MUSIC SUPERVISION AND ADMINISTRATION (3)  
The music curriculum in relation to the total school program; staff and budgetary needs.

MUE 6415 ADVANCED SECONDARY VOCAL MUSIC (3)  
PR: Acceptance in the Music Education Graduate Program or CI. Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a vocal music program which emphasizes musical sensitivity.

MUE 6418 ADVANCED MATERIALS FOR INSTRUMENTAL MUSIC EDUCATION (3)  
PR: Acceptance in the Music Education Graduate Program and CI. Course designed to examine published and unpublished materials, develop curricula and resources, including medial hardware, appropriate for use in school instrumental music programs.

MUE 6495 INSTRUMENTAL CONDUCTING IN THE SECONDARY SCHOOLS (3)  
PR: Acceptance in the Music Education Graduate program or CI. Course designed to develop skills of analysis and interpretation needed by school instrumental music teachers. Class activities include laboratory settings and performance practices.

MUE 6496 CHORAL CONDUCTING IN THE SECONDARY SCHOOLS (3)  
PR: Acceptance in the Music Education Graduate program or CI. Course designed to develop essential conducting competencies required of a choral music director in the secondary schools.

MUE 7630 AESTHETICS IN MUSIC EDUCATION (3)  
PR: Acceptance in the music education graduate program or CI. A course designed to investigate the nature of philosophical and psychological aesthetics as they relate to aesthetic and educational theories that influence programs in music education.

MUE 7641 FOUNDATIONS OF MUSICAL LEARNING AND TEACHING (3)  
PR: Acceptance in the Music Education graduate program, a graduate level educational psychology course or its equivalent, or CI. A critical examination of current findings regarding the phenomena of the psychology of musical behaviors, major problems and plausible solutions. Investigation of musical acoustics, the measurement of musical abilities, and a comparative study of theories of learning related to musical learning.

THEATRE

Chairperson: N. B. Cole; Professor: N. B. Cole, P. B. O'Sullivan; Associate Professors: J. W. Belt, D. M. Calandra, W. A. Lorenzen, P. Massie; Assistant Professors: B. W. Lee, A. G. Lillehun, C. L. Steele, D. K. Williams; Lecturers: M. A. Bentley; Adjunct Assistant Professor: M. Bishop; Adjunct Lecturers: A. M. Beranek, W. James; Other: P. M. Finelli, M. Palec, G. B. Stephens.

UNDERGRADUATE COURSES

THE 3200 THEATRE FUNDAMENTALS (2)  
An introduction to the means and materials of theatre, the nature of theatre forms, the concepts of Total Theatre, and the basic issues in American theatre today. This course open to non-majors and theatre majors should take this course concurrently with their first registration in the group of courses TPA 2200, TPA 2223, TPA 2232, TPP 2110. Required of all theatre majors.

THE 3080C MODERN THEATRE PRACTICE (4)  
Initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

THE 3110 THEATRE HISTORY (4)  
A survey of all facets of theatrical performance in selected periods of theatre history from the 5th Century B.C. to the present. Normally ten plays will be read. Required of all theatre majors. Open to non-majors.

THE 3925 PERFORMANCE (1)  
The rehearsal, construction, production of major theatrical works. Concurrent registration in this course is expected of all students who are enrolled in courses carrying an ACPI (Advanced Course Production Involvement). Assignments are made contractually at the time of registration. Open to non-majors on a credit or non-credit basis. May be repeated.

THE 4180 THEATRE ORIGINS (4)  
PR: Completion of first three years as a theatre major and one from the following: THE 4320, THE 4330, THE 4370, THE 4401, THE 4442, THE 4480, or CI. An analysis of the development of theatre of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena can teach us about the nature of our art. Required of all theatre majors.

THE 4264 HISTORY OF COSTUME (3)  
A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the tech/design track/costume.) Open to upper level non-majors with CI.

THE 4266 ARCHITECTURE AND DECOR (3)  
The survey of architectural and decorative motifs and decor and their stylistic concepts. (A requirement in the tech/design track/scenic.) Open to upper level non-majors with CI.

THE 4320 THE MEET OF MYTH AND RITUAL/ NORTHERN EUROPEAN (950-1600) AND ORIENTAL (400-1200) (3)  
PR: THE 3110. An investigation into the interrelationship of myth, ritual, and theatre event. Enables the student to analyze these scripts in light of their present producibility and past cultural energy. Open to non-majors with CI.

THE 4330 SHAKESPEARE FOR THE THEATRE (3)  
PR: THE 3110. Study of several of Shakespeare plays from the historic point of view. "No sort of study of a (Shakespeare) play can better the preparation of its performance if this is rightly done."-Harley Granville-Barker. Open to non-majors with CI.

THE 4370 THE 19TH CENTURY THEATRE REVOLUTION (3)  
PR: THE 3110. Survey of materials in the Continental, English, and
American stage dating from 1870. Deals with the extraordinary playwrights and new theatre movements. Open to non-majors with CI.

TPA 3840 PUPPETRY PERFORMANCE AND PRODUCTION (4)
PR: TPA 3810. The creation, building, rehearsal, and performance of plays for puppet theatre. May be repeated one time for additional elective credit, with CI, to a 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 administered 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, and TPA 4211 and portfolio review. The aesthetic and practical application of the elements of design in lighting for theatre presentation. A requirement in the tech/design track/lighting.

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

TPA 4100 SCENE DESIGN (4)
PR: TPA 4211, TPA 4266, and ART 3301C and portfolio review. The aesthetic and practical application of the elements of design in scenery for theatre presentation. A requirement in the tech/design track/scenic.

TPA 4081 SCENE PAINTING (2)
PR: TPA 3086. A practical course in the painting of stage scenery—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 tech/design/scenic and lighting.

TPA 4230 COSTUME CONSTRUCTION (3)
PR: TPA 3086, TPA 2232. A practical course in the drafting of wearable patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories for stage will be treated. Included topics are millinery, footwear, jewelry, masks, armor, corsets; both period and modern.

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

TPA 4281 PRACTICUM IN TECHNICAL SUPERVISION (2)
PR: One of TPA 4211, or TPA 4230. A study of the technical operation and organization for the theatre technologist in costume or 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.

TPP 2110 VOICE-BODY-IMPROVISATION (2)
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 non-majors with TPP 2110 with 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 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 CI.

TPP 3122 IMPROVISATION II (3)
PR: TPP 3121; audit. 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 (3)
PR: Completion of the four required 2000 level courses and/or CI. The preparation and performance of a production for a special audience (ethnic, children, aged, institutionalized, etc.) With CI, may be repeated one time as additional elective credit (total of 6 hours). Open to non-majors with CI.

TPP 3500 BODY DISCIPLINES (2)
PR: Completion of the 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. Repeatable for credit. Required of all theatre majors with a performance concentration. Open to upper-level non-majors with CI. May be repeated for credit.

TPP 3510 SPECIAL SKILLS IN MOVEMENT (2)
PR: TPP 3500. Stage combat, circus and acrobatic techniques, and other special techniques of movement. Repeatable for credit. Open to non-majors with CI.

TPP 3790L VOICE PREPARATION FOR THE ACTOR (2)
PR: Completion of the four required 2000 level theatre courses. A laboratory in voice production and corrective speech for the actor. Repeatable for credit. Required of all theatre majors with a performance concentration. Open to upper-level non-majors with CI. May be repeated for credit.

TPP 4140 SCENE STUDY II (4)
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 4140 SCENE STUDY I (4)
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 4150 SCENE STUDY III (4)
PR: TPP 4140 and audition. Advanced scene study. Required of all theatre majors with a performance concentration.

TPP 4180 SCENE STUDY HONORS (3)
PR: TPP 4152; admittance by competitive audition. The aesthetics of acting. The various theories of the art. A studio course.

TPP 4220 AUDITION WORKSHOP FOR THE ACTOR (2)
PR: TPP 4150 and TPP 4140 or CI. Preparation for professional audition; discussion of professional objectives.

TPP 4230L LABORATORY WORKSHOP IN PERFORMANCE (3)
PR: TPP 3111 and/or CI. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (to a total of 9 hours credit).

TPP 4250 MUSIC THEATRE WORKSHOP (3)
PR: TPP 3111. Special problems in acting as applied to the musical theatre.

TPP 4310, 4311 DIRECTING I, II (3, 3)
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 (3)
PR: Completion of the first two years as a theatre major and CI. An elective in writing for the theatre, starting with explorations of acting 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 CI.

TPP 4920 SENIOR WORKSHOP FOR ACTORS (3)
PR: TPP 4152, TPP 3500, TPP 3790L. A workshop in advanced vocal and movement techniques. Required of all theatre majors with a performance concentration.

GRADUATE COURSES

THE 5902 DIRECTED READING (1-4)
PR: CI and CC. Reading in topics of special interest to the student. Contract defining scope of projects, materials used, expected results and credit hours assigned must be completed prior to registration. May be repeated for different topics.

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

THE 5931 SELECTED TOPICS IN THEATRE (1-8)
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.

COLLEGE OF MEDICINE

ANATOMY


BMS 6100 GROSS ANATOMY (var.)
PR: Admission to College of Medicine.

BMS 6110 MICROSCOPIC ANATOMY (var.)
PR: Admission to College of Medicine.

BMS 6150 NEUROANATOMY (var.)
PR: Admission to College of Medicine.

BMS 6160 ANATOMY SEMINAR (0)
PR: Consent of Chairman, Department of Anatomy.

BMS 7170 REGIONAL ANATOMY I—Head and Neck (var.)
PR: Enrolled in College of Medicine.

BMS 7171 REGIONAL ANATOMY II—Thorax, Abdomen, Pelvis and Perineum (var.)
PR: Enrolled in College of Medicine.

BMS 7172 REGIONAL ANATOMY III—Extremities (var.)
PR: Enrolled in College of Medicine.

BMS 7174 MEDICAL DEVELOPMENT ANATOMY and Teratology (var.)
PR: Enrolled in College of Medicine.

BMS 7175 ADVANCED NEUROANATOMY (var.)
PR: Enrolled in College of Medicine.

BMS 7176 ADVANCED MICROSCOPIC ANATOMY (var.)
PR: Enrolled in College of Medicine.

BMS 7177 APPLIED NEUROANATOMY (var.)
PR: Enrolled in College of Medicine.

BMS 7178 CROSS SECTIONAL ANATOMY (Var.)
PR: Enrolled in College of Medicine.

GMS 6600C CORE COURSE IN HUMAN ANATOMY (5)
PR: Admission to Ph.D. Program in Medical Sciences.

GMS 6601 METHODS OF ELECTRON MICROSCOPY IN MEDICAL RESEARCH (3)
PR: GMS 6600, GMS 6608, or CC.

GMS 6602 NEURAL CORRELATES OF BEHAVIOR (3)
PR: GMS 6600, or CC.

GMS 6603 COMPARATIVE NEUROANATOMY (2)
PR: GMS 6600, or CC.

GMS 6604 HUMAN EMBRYOLOGY (3)
PR: GMS 6600, or CC.

GMS 6605 COMPARATIVE HEMATOLOGY (2)
PR: GMS 6600, or CC.

GMS 6606 ANATOMICAL ILLUSTRATIONS AND METHODS (2)
PR: GMS 6600, or CC.

GMS 6607 HISTORY OF ANATOMY (2)
PR: GMS 6600, or CC.

GMS 6608 ADVANCED MICROSCOPIC ANATOMY (3-6)
PR: GMS 6600, or CC.

GMS 6609 ADVANCED HUMAN GROSS ANATOMY (6-12)
PR: GMS 6600, or CC.
GMS 6610 ADVANCED NEUROANATOMY (3-6)
PR: Admission to GMS program and acceptance into the Anatomy department.

GMS 6611 INTRODUCTION TO ANATOMICAL RESEARCH (2)
PR: Admission to GMS program and acceptance into the Anatomy department.

GMS 6612 SUPERVISED TEACHING IN HUMAN ANATOMY (3)
PR: GMS 6608, 6609, or 6610 and acceptance into the Anatomy department.

ANESTHESIOLOGY
Chairperson: R. S. Hodes; Professor: B. D. Wright, R. S. Hodes; Associate Professor: R. E. Benway; Assistant Professor: A. Bayoni.

MEL 7760 ANESTHESIOLOGY ELECTIVE (var.)
PR: Enrolled in College of Medicine.

BIOCHEMISTRY

BMS 6200 BIOCHEMISTRY (var.)
PR: Admission to College of Medicine.

BMS 6230 BIOCHEMISTRY SEMINAR (0)
PR: CI.

BMS 7260 RESEARCH IN BIOCHEMISTRY (var.)
PR: Enrolled in College of Medicine.

BMS 7262 MOLECULAR BASIS OF METABOLIC REGULATIONS (var.)
PR: Admitted to College of Medicine.

BMS 7271C EXPERIMENTAL ONCOLOGY (var.)
PR: Admission to College of Medicine.

GMS 6103 METABOLIC BASIS OF DISEASE (2)
PR: GMS 6200 or CC.

GMS 6200C CORE COURSE IN MEDICAL BIOCHEMISTRY (5)
PR: Admission to Ph.D. Program in Medical Sciences.

GMS 6414 BIOLOGICAL MEMBRANES-STRUCTURE AND FUNCTION (3)
PR: GMS 6200 or CC.

GMS 6415 LIPID METABOLISM AND REGULATION (3)
PR: GMS 6200 or CC.

GMS 6416 MACROMOLECULAR METABOLISM (3)
PR: GMS 6200 or CC.

COMPREHENSIVE MEDICINE

HSC 6160 HEALTH CARE ORGANIZATION AND MANAGEMENT (3)
General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, national, and international levels.

HSC 6412 EPIDEMIOLOGY AND HEALTH STATISTICS (3)
Study of quantitative methods to evaluate the distribution and determinants of disease in populations and to assess data and evaluate conclusions using statistical principles.

HSC 6560 PATHOBIOLOGY OF HUMAN DISEASE I (3)
A basic study of broad pathological areas of biological injury, genetic, and inborn errors of metabolism, host-parasite relationships. In addition, the pathobiology of human disease will be closely related to general biology in order to provide a strong foundation for the public health student.

MEL 8200 INTRODUCTION TO REHABILITATION MEDICINE (var.)
PR: Admission to the College of Medicine.

MEL 8201 INTRODUCTION TO ELECTROMYOGRAPHY (var.)
PR: Admission to the College of Medicine.

MEL 8206 COMMUNITY PUBLIC HEALTH AND PREVENTIVE MEDICINE (var.)
PR: Admission to the College of Medicine.

MEL 8207 LABORATORY RESEARCH IN TROPICAL MEDICINE (var.)

FAMILY MEDICINE

MEL 7255 OUT-PATIENT FAMILY MEDICINE (var.)
PR: Enrolled in College of Medicine.

MEL 7256 IN-PATIENT FAMILY MEDICINE (var.)
PR: Enrolled in College of Medicine.

MEL 7257 GERIATRIC MEDICINE (var.)
PR: Enrolled in College of Medicine.

MEL 7258 ELECTIVE CLERKSHIP FOR RURAL MEDICINE (var.)
PR: Enrolled in College of Medicine.

MEL 7259 EMERGENCY MEDICINE CLERKSHIP (var.)
PR: Enrolled in College of Medicine.

BCC 8171 FAMILY PRACTICE PRECEPTORSHIP (var.)
PR: Enrolled in College of Medicine.

INTERDISCIPLINARY
MEL 7320 EXTRAMURAL CLERKSHIP (var.)
PR: Enrolled in College of Medicine.

MEL 7302 PERINATOLOGY (var.)
PR: Enrolled in College of Medicine.

MEL 7103 PEDIATRIC CARDIOLOGY AND PHYSIOLOGY (var.)
PR: Enrolled in College of Medicine.

MEL 7104 DEPARTMENTAL OVERVIEWS (var.)
PR: Enrolled in College of Medicine.

MEL 7106 CLINICAL LABORATORY IMMUNOLOGY (var.)
PR: Enrolled in College of Medicine.

MEL 7107 IMMUNOLOGY OF PARASITIC INFECTIONS (var.)
PR: Enrolled in College of Medicine.

MEL 7108 OBSTETRIC AND GYNECOLOGIC PATHOLOGY (var.)
PR: Enrolled in College of Medicine.

MEL 7109 OUTPATIENT PSYCHIATRY AND PRIMARY CARE (var.)
PR: Enrolled in College of Medicine.

BCC 9180 AMBULATORY CARE ROTATION (var.)
PR: Enrolled in College of Medicine.

GMS 7418 DIRECTED RESEARCH (1-3)
PR: Gr. Ph.D. level. Repeatable (S/U only.)

GMS 7930 SELECTED TOPICS (1)
PR: Departmental Core Course or CC.

GMS 7939 GRADUATE SEMINAR (1)
PR: Departmental Core Course or CC.

GMS 7990 DISSERTATION: DOCTORAL (var.)
PR: Must be admitted to Doctoral Candidacy, Repeatable. (S/U only.)
INTERNAL MEDICINE


BMS 6810 INTRODUCTION TO MEDICINE
PR: Admission to College of Medicine. (var.)

BMS 6830 PHYSICAL DIAGNOSIS
PR: Admission to College of Medicine. (var.)

BCC 6110 MEDICINE CLERKSHIP
PR: Admission to College of Medicine. (var.)

MEL 7003 ELECTRO-CARDIOGRAPHIC INTERPRETATION AND CONSULTATIVE CARDIOLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 7321 CLINICAL DERMATOLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 7305 CLINICAL ENDOCRINOLOGY AND METABOLISM
PR: Enrolled in College of Medicine. (var.)

MEL 7306 GASTROENTEROLOGY ELECTIVE
PR: Enrolled in College of Medicine. (var.)

MEL 7310 INFECTIOUS DISEASES AND TROPICAL MEDICINE
PR: Enrolled in College of Medicine. (var.)

MEL 7313 CLINICAL NEPHROLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 8308 AMBULATORY HEMATOLOGY-ONCOLOGY
PR: Enrolled in College of Medicine. (var.)

BCC 8302 CLINICAL NEUROLOGY CLERKSHIP
PR: Enrolled in College of Medicine. (var.)

MEL 8676 NEUROLOGY OF AMBULATORY PATIENTS
PR: Enrolled in College of Medicine. (var.)

MEL 8334 ACTING MEDICINE INTERNSHIP
PR: Enrolled in College of Medicine. (var.)

MEL 8335 IN AMBULATORY CARE IN INTERNAL MEDICINE
PR: Enrolled in College of Medicine. (var.)

MEL 8315 ALLERGY/CLINICAL IMMUNOLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 8336 AMBULATORY CARE ELECTIVE-ENDOCRINOLOGY AND METABOLISM
PR: Enrolled in College of Medicine. (var.)

MEL 8302 CLINICAL CARDIOLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 8337 CLINICAL CARDIOLOGY II (TGH)
PR: Enrolled in College of Medicine. (var.)

MEL 8339 CLINICAL RHEUMATOLOGY ELECTIVE
PR: Enrolled in College of Medicine. (var.)

MEL 8388 RESEARCH IN RHEUMATOLOGY IMMUNOLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 8340 PULMONARY DISEASE
PR: Enrolled in College of Medicine. (var.)

MEL 8341 PULMONARY DISEASE-TGH
PR: Enrolled in College of Medicine. (var.)

MEL 8342 ACTING MEDICINE INTERNSHIP: ORLANDO REGIONAL MEDICAL CENTER
PR: Enrolled in College of Medicine. (var.)

MEL 8343 CLINICAL CARDIOLOGY III-ORLANDO
PR: Enrolled in College of Medicine. (var.)

MEL 8344 MEDICAL ASPECTS OF NEUROLOGICAL DISEASE
PR: Enrolled in College of Medicine. (var.)

MEL 8345 MEDICAL ONCOLOGY
PR: Enrolled in College of Medicine. (var.)

MEL 8346 GERIATRIC INTERNAL MEDICINE
PR: Enrolled in College of Medicine. (var.)

MEL 8347 ADULT EMERGENCY MEDICINE
PR: Enrolled in College of Medicine. (var.)

MEL 8347 MEDICAL MICROBIOLOGY AND IMMUNOLOGY


BMS 6300 MEDICAL MICROBIOLOGY
PR: Admission to College of Medicine. (var.)

BMS 6320 MEDICAL MICROBIOLOGY SEMINAR
PR: CC. (var.)

BMS 7300 CLINICAL MICROBIOLOGY
PR: Enrolled in College of Medicine. (var.)

BMS 730C EXPERIMENTAL MICROBIOLOGY AND IMMUNOLOGY
PR: Enrolled in College of Medicine. (var.)

BMS 730C HOST-PARASITE INTERACTIONS AND IMMUNOLOGY
PR: Enrolled in College of Medicine. (var.)

BMS 739C IMMUNOGENETICS AND TRANSPLANTATION
PR: Enrolled in College of Medicine. (var.)

BMS 739C CLINICAL AND LABORATORY VIROLOGY
PR: Enrolled in College of Medicine. (var.)

GMS 6100C CORE COURSE IN MEDICAL MICROBIOLOGY
PR: Admission to Ph.D. Program in Medical Sciences. (var.)

GMS 6101 DIAGNOSTIC MICROBIOLOGY
PR: GMS 6100 or CC. (3)

GMS 6102 RESEARCH PLANNING AND METHODS
PR: GMS 6100C or CC. (3)

GMS 6104 CELLULAR IMMUNOLOGY
PR: GMS 6100C or CC. (3)

GMS 6105 ADVANCES IN IMMUNOLOGY
PR: GMS 6100C or CC. (3)

GMS 6106 IMMUNOCHIMISTRY
PR: GMS 6100C or CC. (3)

GMS 6107 ADVANCES IN VIROLOGY
PR: GMS 6100C or CC. (2)

GMS 6108 MICROBIAL PHYSIOLOGY AND GENETICS
PR: GMS 6100C or CC. (2)

GMS 6109 REGULATORY CONTROL MECHANISMS IN ANIMAL CELL SYSTEMS
PR: GMS 6100C or CC. (2)

GMS 6110 HOST-PARASITE INTERACTIONS
PR: GMS 6100C or CC. (2)

GMS 6117 ANIMAL RESEARCH METHODS
PR: GMS 6100C or CC. (3)

OBSTETRICS/GYNECOLOGY


BCC 6130 OBSTETRICS-GYNECOLOGY CLERKSHIP
PR: Admission to College of Medicine. (var.)
MEL 7404 GYNECOLOGIC ONCOLOGY
PR: Enrollment to College of Medicine.

MEL 7406 MATERNAL-NEONATAL MEDICINE
PR: Enrollment to College of Medicine.

MEL 7440 RESEARCH IN OBSTETRICS-GYNECOLOGY
PR: Enrollment to College of Medicine.

MEL 7410 THE INFLAMMATORY STATE
PR: Enrollment to College of Medicine.

MEL 7412 INFECTIOUS DISEASE IN OBSTETRICS AND GYNECOLOGY
PR: Enrollment to College of Medicine.

**(OPHTHALMOLOGY)**


MEL 7501 MEDICAL OPHTHALMOLOGY
PR: Enrollment to College of Medicine.

MEL 7503 TUTORIAL COURSE OF ADVANCED OPHTHALMOLOGY
PR: Enrollment to College of Medicine.

MEL 7506 OCULAR INFLAMMATION
PR: Enrollment to College of Medicine.

MEL 7507 RETINAL ELECTIVE
PR: Enrollment to College of Medicine.

MEL 7508 NEUROOPHTHALMOLOGY
PR: Enrollment to College of Medicine and MEL 7501 or MEL 5703.

MEL 8520 OPHTHALMIC PATHOLOGY
PR: Enrollment to College of Medicine and MEL 7501 or MEL 5703.

**(ORTHOPAEDIC SURGERY)**

Chairperson (Acting): P. G. Spiegel; Professor: P. G. Spiegel; Associate Professor: R. J. Belsole. Assistant Professors: A. E. Castellvi, K. Gustke, A. Walling.

MEL 7817 ORTHOPAEDIC INPATIENT ELECTIVE
PR: Enrolled in College of Medicine.

MEL 7821 SURGERY OF THE HAND ELECTIVE
PR: Enrolled in College of Medicine.

MEL 7823 GENERAL ORTHOPAEDIC ELECTIVE
PR: Enrolled in College of Medicine.

MEL 7824 ORTHOPAEDIC OUTPATIENT ELECTIVE
PR: Enrolled in College of Medicine.

MEL 7825 MICRONEUROVASCULAR SURGERY ELECTIVE
PR: Enrolled in College of Medicine.

**(PATHOLOGY)**


BMS 6600 MEDICAL PATHOLOGY
PR: Enrolled in College of Medicine.

BMS 6610 LABORATORY MEDICINE
PR: Enrolled in College of Medicine.

BMS 7611C ELECTIVE IN LABORATORY MEDICINE
PR: Enrolled in College of Medicine.

BMS 7661C EXPERIMENTAL PATHOLOGY
PR: Enrolled in College of Medicine.

BMS 7663C PATHOLOGIC ANATOMY
PR: Enrolled in College of Medicine.

BMS 7664C FLEXIBLE ELECTIVE IN PATHOLOGY
PR: Enrolled in College of Medicine.

GMS 6111 HUMAN SYSTEMIC PATHOLOGY
PR: GMS 6300 or CC.

GMS 6112 BIOCHEMICAL PATHOLOGY
PR: GMS 6300 or CC.

GMS 6113 IMMUNOPATHOLOGY
PR: GMS 6300 or CC.

GMS 6300C CORE COURSE IN PATHOLOGY
PR: Admission to Ph.D. Program in Medical Sciences.

GMS 6301 ADVANCED GROSS PATHOLOGY
PR: GMS 5300 or CC.

GMS 6302 ADVANCED MICROSCOPIC PATHOLOGY
PR: GMS 6300 or CC.

GMS 6303 ELECTRON MICROSCOPY OF DISEASE STATES
PR: GMS 6300 or CC.

**(PEDIATRICS)**


BCC 6142 PEDIATRICS CLINIC
PR: Enrolled in College of Medicine.

MEL 7551 INPATIENT PEDIATRICS, TAMPA GENERAL HOSPITAL
PR: Enrolled in College of Medicine.

MEL 7560 PEDIATRIC CLINICAL CARDIOLOGY
PR: Enrolled in College of Medicine.

MEL 7563 PEDIATRIC NEPHROLOGY
PR: Enrolled in College of Medicine.

MEL 7565 NEONATOLOGY
PR: Enrolled in College of Medicine.

MEL 8591C RESEARCH IN PEDIATRIC MEDICINE AND GENETICS
PR: Enrolled in College of Medicine.

MEL 7596 DIABETES & METABOLIC DISEASE RESEARCH
PR: Enrolled in College of Medicine.

MEL 8555 ALL CHILDREN'S HOSPITAL
PR: Enrolled in College of Medicine.

MEL 8566 PEDIATRIC ENDOCRINOLOGY-CLINICAL
PR: Enrolled in College of Medicine.

MEL 8567 PEDIATRIC PRACTICE
PR: Enrolled in College of Medicine.

MEL 8568 PEDIATRIC HEMATOLOGY-ONCOLOGY
PR: Enrolled in College of Medicine.

MEL 8569 PEDIATRIC NEUROLOGY
PR: Enrolled in College of Medicine.

MEL 8570 GENETICS ELECTIVE
PR: Enrolled in College of Medicine.

MEL 8571 CHILD DEVELOPMENT AND BEHAVIOR
PR: Enrolled in College of Medicine.

MEL 8590 NEONATAL RESEARCH
PR: Enrolled in College of Medicine.

MEL 8595 PEDIATRIC ENDOCRINE RESEARCH
PR: Enrolled in College of Medicine.

**(PHARMACOLOGY AND THERAPEUTICS)**

Chairperson: A. Szentivanyi; Vice-Chairperson: J. J. Krzanowski; Professors: D. L. Smith, A. Szentivanyi; Associate Professors: R. G. Coffey, D. F. Fitzpatrick, J. F. Hackney, J. J. Krzanowski, J. B. Polson, J. F. Williams; Assistant Professor: E. M. Hadden; Other Faculty: Mark Montgomery.

BMS 6400 PHARMACOLOGY
PR: Enrolled in College of Medicine.
PHYSIOLOGY


BMS 6500 MEDICAL PHYSIOLOGY (var.)
PR: Admission to College of Medicine.

BMS 6520 MEDICAL PHYSIOLOGY (var.)
PR: Consent of Chairman, Department of Physiology.

BMS 7560 RESEARCH IN PSYCHOLOGY (var.)
PR: Enrollment in College of Medicine.

BMS 7561 CARDIOPULMONARY-RENAL PHYSIOLOGY (var.)
PR: Enrollment in College of Medicine.

BMS 7568C CONTROL OF PHYSIOLOGICAL SYSTEMS (var.)
PR: Enrollment in College of Medicine.

GMS 6400C CORE COURSE IN PHYSIOLOGY (5)
PR: Admission to Ph.D. Program in Medical Sciences.

GMS 6401 KIDNEY, FLUIDS AND ELECTROLYTES (4)
PR: GMS 6400 or CC.

GMS 6402 RESPIRATION (4)
PR: GMS 6400 or CC.

GMS 6403 ENDOCRINE MECHANISMS (4)
PR: GMS 6400 or CC.

GMS 6404 SYSTEMS NEUROPHYSIOLOGY (4)
PR: GMS 6400 or CC.

GMS 6407 SMOOTH AND SKELETAL MUSCLE (4)
PR: GMS 6400 or CC.

GMS 6409 PERIPHERAL CIRCULATION AND HEMODYNAMICS (4)
PR: GMS 6400 or CC.

GMS 6410 CARDIOVASCULAR REGULATION (4)
PR: GMS 6400 or CC.

GMS 6413 PHYSIOLOGICAL BASIS OF CARDIOLOGY (4)
PR: GMS 6400 or CC.

PSYCHIATRY AND BEHAVIORAL MEDICINE


BMS 6600 INTRODUCTION TO BEHAVIORAL SCIENCES (var.)
PR: Admission to College of Medicine.

BMS 6650 PSYCHIATRY SEMINAR (0)
PR: GMS 6600-GMS 6300 or CC.

BMS 6680 BIOSTATISTICS (0)
PR: Admission to College of Medicine.

BCC 6150 PSYCHIATRY CLINICAL PRACTICE (var.)
PR: Admission to College of Medicine.

MEI 7105 OUTPATIENT PSYCHIATRY AND PRIMARY CARE (var.)
PR: Enrollment in College of Medicine.

MEI 7602 CHILD PSYCHIATRY (var.)
PR: Enrollment in College of Medicine.

MEI 7607 PSYCHIATRY AND MEDICAL PRACTICE (var.)
PR: Enrollment in College of Medicine.

MEI 7611 ADVANCED TRAINING IN ADULT PSYCHIATRY (var.)
PR: Enrollment in College of Medicine.

MEI 7612 GERIATRIC PSYCHIATRY (var.)
PR: Enrollment in College of Medicine.

MEI 7613 ALCOHOLISM (var.)
PR: Enrollment in College of Medicine.

MEI 8664 PSYCHIATRIC RESEARCH (var.)

RADIOLOGY

Chairperson: M. L. Silbiger; Professor: A. D. Graham; Associate Professors: M. S. Farber, S. Frenchman, C. P. Shah, S. A. Stenzler, H. Tanous.

MEI 7700 GENERAL RADIOLOGY (var.)
PR: Enrollment in College of Medicine.

SURGERY


BCC 6160 SURGERY CLERKSHIP (var.)
PR: Admission to College of Medicine.

MEL 7760 ANESTHESIOLOGY ELECTIVE (var.)
PR: Enrolled in College of Medicine.

MEL 7800 GENERAL SURGERY ELECTIVE (var.)
PR: Enrolled in College of Medicine.

MEL 7801 GENERAL SURGERY PRECEPTORSHIP (var.)
PR: Enrolled in College of Medicine.

MEL 7805 PLASTIC AND RECONSTRUCTIVE SURGERY ELECTIVE (var.)
PR: Enrolled in College of Medicine.

MEL 7806 PLASTIC SURGERY PRECEPTORSHIP (var.)
PR: Enrolled in College of Medicine.

COLLEGE OF NATURAL SCIENCES

ASTRONOMY

UNDERGRADUATE COURSES

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

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

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

AST 3033 CONTEMPORARY THINKING IN ASTRONOMY (3)
PR: Junior or Senior Standing of Cl. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. No experience in astronomy, physics, or mathematics is necessary. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

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

AST 3652 NAVIGATION (2)
PR: Some knowledge of geometry, algebra and trigonometry. Timekeeping, use of sextant, constellations, navigation with minimum equipment, some spherical astronomy.

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

PR: Jr. or Sr. Standing or CI. Astronomical concepts and observa-

GRADUATE COURSES

AST 5506 INTRODUCTION TO CELESTIAL MECHANICS (3)
PR: MAC 2413 and some knowledge of differential equations, or Cl. The two body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

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

BIOLOGY


UNDERGRADUATE COURSES

APB 2130 ENVIRONMENT (3)
PR: BSC 2933. 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.

APB 2140 FOODS AND DRUGS (3)
PR: BSC 2933. The application of basic biological principles to relevant problems and topics in nutrition and drugs through consideration of scientific and popular literature. For non-majors.

APB 2250 SEX, REPRODUCTION AND POPULATION (3)
PR: BSC 2933. 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.

APB 3110 MAN, MICROBE AND MOLECULE (3)
PR: BSC 2933. Origin of life, control of disease, environmental qual-
ity and the use of microorganisms as tools in searching for molecular explanations of living phenomena. For non-majors.

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

BOT 4663 INTRODUCTION TO TROPICAL BIOLOGY (4)

BSC 2932 SELECTED TOPICS IN BIOLOGY (4)
A brief review of living organisms, respiration, photosynthesis, cell structure, and specialization. Lec.-lab.

BSC 2933 TOPICS IN HUMAN BIOLOGY (3)
Lectures, individual reading, movies, classroom discussions, and evaluation of selected biological topics, reflecting biological principles. For non-majors.

BSC 3263 INTRODUCTORY MARINE BIOLOGY (3)
PR: 1 year major's Biology or CI. 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 4005 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 4940 SEMINAR IN BIOLOGY (1)
Senior or advanced junior standing. May be repeated once. (S/U only.)

BSC 4943 SELECTED TOPICS IN BIOLOGY (1-3)
PR: 1 year major's Biology. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lec.-dis.

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 BIOLOGY (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.

PCB 4064 EXPERIMENTAL GENETICS (2)
PCB 3063. Experimental analysis of genetic systems. Lec.-lab.

PCB 4074 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.

ZOO 2010C FUNDAMENTALS OF ZOOLOGY (4)

GRADUATE COURSES

BSC 5931 SELECTED TOPICS IN BIOLOGY (1-3)
Each topic is a course in directed study under supervision of a faculty member.

BSC 6907 INDEPENDENT STUDY (var.)
PR: CI and CC. Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

BSC 6910 DIRECTED RESEARCH (var.)
Master's level. Repeatable. (S/U only.)

BSC 6912 GRADUATE RESEARCH METHODS (1-4)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

BSC 6932 SELECTED TOPICS IN BIOLOGY (1-4)
PR: CI and CC.

BSC 6935 GRADUATE SEMINAR IN BIOLOGY (1)
PR: CI and CC. (S/U only.)

BSC 6945 GRADUATE INSTRUCTION METHODS (1-3)
PR: CI and CC. Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

BSC 7912 DIRECTED RESEARCH (var.)
PR: CI and CC. Must be submitted to Doctoral Candidacy. Repeatable. (S/U only.)

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

PCB 5235C PRINCIPLES OF IMMUNOLOGY (3)
PR: PCB 4023C or MCB 3010C. 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 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: PBC 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 4745C. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.

PCB 6176C ULTRASTRUCTURE TECHNIQUES IN ELECTRON MICROSCOPY (4)
PR: PCB 4023C and CI and CC. Discussion of theory and techniques in electron microscopy. Emphasis on preparation of biological specimens, electron microscopic optics and use of the electron microscope. Lec.-lab.

PCB 6356 TROPICAL ECOLOGY (2)
PR: PCB 4043C. Graduate Standing. A discussion of a series of related ecological topics to illustrate the features peculiar to the tropics.

PCB 6426C POPULATION BIOLOGY (3)
PR: PCB 4043C. Introduction to population dynamics with emphasis on the ecological components of population growth, competition, and predation.

PCB 6456C BIOMETRY (3)
PR: MAC 2243 and MAC 2244. An introduction to statistical procedures for research in the biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec.-dis.

BOTANY

UNDERGRADUATE COURSES

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

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

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

BOT 5185 MARINE BOTANY
PR: BOT 2010C, PCB 4043C. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec.-lab.

BOT 5405C PHYCOLOGY
PR: BOT 2010C. A detailed survey of the algae emphasizing both taxonomy and morphology of fresh and marine water forms; field and laboratory investigations, including individual projects. Lec.-lab.

BOT 5605 PLANT ECOLOGY

BOT 5725C EVOLUTION OF FLOWERING PLANTS
PR: BOT 4713C. A phylogenetic study of Angiosperms; relationship of the principal orders and families, problems of nomenclature, identification of specimens, comparisons of recent systems of classification, dissection of representative flower types. Field trips and lab work. Lec.-lab.

BOT 5938 SELECTED TOPICS IN BOTANY
Each topic is a course in directed study under supervision of a faculty member.

BOT 6516 PLANT BIOCHEMISTRY
PR: BOT 4503. A study of plant metabolism with emphasis on the biosynthetic pathways and their regulation.

BOT 6516L LABORATORY IN PLANT BIOCHEMISTRY
PR: BOT 4503. An intensive exposure to the methods used in experimenting with plant material.

BOT 6716C BIOCHEMICAL SYSTEMATICS
PR: BOT 3713C or equivalent. Application of cytology, ecology, genetics, biochemistry, and morphological analysis to the study of evolution and classification of species of higher plants. Lec.-lab.

BOT 6916 INDEPENDENT STUDY
PR: CI and CC. Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

BOT 6971 THESIS: MASTER'S
PR: CI and CC. Repeatable. (S/U only.)

*Micr0organisms are likely to be encountered by the bacteriologists, with special emphasis on the forms pathogenic for man.

MICROBIOLOGY

UNDERGRADUATE COURSES

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

MCB 3010C INTRODUCTION TO MICROBIOLOGY
PR: 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 microorganisms from nature, enumeration techniques, resistance to infectious diseases. Lec.-lab.

MCB 4115 DETERMINATIVE BACTERIOLOGY
PR: MCB 3010C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec.-lab.

MCB 4404 MICROBIAL PHYSIOLOGY
PR: MCB 3010C, 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 4505C VIROLOGY
PR: MCB 3010C. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.

MCB 4934 SEMINAR IN MICROBIOLOGY
PR: Senior or advanced junior standing. May be repeated. (S/U only.)

ZOOLOGY

UNDERGRADUATE COURSES

ENV 4004 INTRODUCTION TO ENTOMOLOGY
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.

PCB 3700 HUMAN ANATOMY AND PHYSIOLOGY
PR: BSC 2010C and ZOO 2010C. Lectures and discussions on the structure and function of the human body. For non-majors.
PCB 4184C HISTOLOGY
PR: ZOO 2010C. Comparative approach to the study of tissues and the relation of their structure and function. Lec.-lab.

PCB 4253C DEVELOPMENTAL BIOLOGY
PR: PCB 4023C. Structural and functional events involved in differentiation and morphogenesis. Lec.-lab.

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

ZOO 3200C INVERTEBRATE ZOOLOGY
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
PR: ZOO 2010C. Anatomy of selected vertebrate types emphasizing evolutionary trends. (Spring Sem.) Lec.-lab.

ZOO 3823C BIOLOGY OF TERRESTRIAL ARTHROPODS
PR: ZOO 2010C. An introduction to the biology of insects, spiders, and centipede and millipede groups. Lectures and laboratories will emphasize anatomy, physiology, behavior, and ecology of these organisms. Field work will be required. Lec.-lab.

ZOO 4503 ANIMAL SOCIAL BEHAVIOR
PR: ZOO 2010C. An introduction to comparative animal behavior (Ethology), with emphasis on communication, social use of space, and behavioral evolution. Lec.-lab.

ZOO 4583C PRIMATE SOCIAL BEHAVIOR
PR: ZOO 4503C. An introduction to primate social behavior and behavioral ecology.

ZOO 4893 WILDLIFE AND FISH MANAGEMENT
PR: ZOO 2010C and PCB 4043C. An introduction to the principles of wildlife and fisheries management. Certain methods and techniques utilized in the management of exploited animal species will be introduced. Designed primarily for students interested in the wildlife and fish management profession.

GRADUATE COURSES

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

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

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

PCB 5725C COMPARATIVE PHYSIOLOGY
PR: PCB 4023C. The evolution of physiological mechanisms. Lec.-lab.

PCB 6376C PHYSIOLOGICAL ECOLOGY
PR: CI and CC. Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism. Lec.-lab.

PCB 6756 COMPARATIVE METABOLISM
PR: PCB 4023C and PCB 5303. Some knowledge of Animal Phylogeny will be assumed. A presentation of various metabolic pathways found in invertebrate animals including specializations related to parasitism and facultative anaerobiosis.

PCB 6816C COMPARATIVE ENDOCRINOLOGY
PR: PCB 5725C. An analysis of the similarities and differences between the hormonal mechanisms of mammals, other vertebrates, and invertebrates. Lecture only.

ZOO 5235C PARASITOLOGY
PR: ZOO 2010C. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.-lab.

ZOO 5425C HERPETOLOGY
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 5455C ICHTHYOLOGY
PR: ZOO 3713C. Systematics of fishes, including major classification, comparative anatomy, embryology, and general distribution. Lec.-lab. (Also offered under Marine Science.)

ZOO 5475C ORNITHOLOGY

ZOO 5485C MAMMALOLOGY
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
PR: PCB 4043C and ZOO 3203C. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.

ZOO 5815C BIOGEOGRAPHY
PR: One year major's Biology. Principles and general patterns of terrestrial and marine animal and plant distributions.

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

ZOO 6506C ADVANCED ANIMAL BEHAVIOR
PR: ZOO 4503C, CI and CC. Recent advances in comparative animal behavior (ethology). Lec.-lab.

ZOO 6616C EXPERIMENTAL EMBRYOLOGY
PR: PCB 4253C, CI and CC. Lectures, laboratories, readings and discussions relating to contemporary advances in the area of biochemistry of development. Experimental techniques will be studied. Lec.-lab.

ZOO 6907 INDEPENDENT STUDY
PR: CI and CC. Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

ZOO 6971 THESIS: MASTER'S
PR: CI and CC. Repeatable. (S/U only.)

CHEMISTRY

Chairperson: W. E. Swartz, Jr.; Graduate Research Professor: R. N. Castle; Professors: J. S. Binford, Jr., R. S. Braman, J. C. Davis, Jr., J. E. Fernandez, G. R. Jurch, Jr., D. F. Martin, P. C. Maybury, E. D. Olsen, T. C. Owen, D. J. Raber, S. W. Schneller, T. W. G. Solomons, B. Stevens, W. E. Swartz, Jr., R. D. Whitaker, J. H. Worrell; Professor Emeritus: T. A. Ashford; Associate Professors: M. D. Johnston, Jr., J. A. Stanko, J. O. Tsokos, J. E. Weinzierl, G. R. Wenzinger; Assistant Professors: S. H. Grossman, S. W. Jahoda, R. M. O'Malley; Adjunct Professor: J. A. Bartrop; Visiting Associate Professor: E. Wickstrom; Visiting Lecturer: J. Kollenbach;Courtesy Assistant Professor: B. B. Martin; Other Faculty: N. C. Halder.

UNDERGRADUATE COURSES

BCH 3033 INTRODUCTORY BIOCHEMISTRY
PR: CHM 3200, CHM 3211, or BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

BCH 3033L BASIC BIOCHEMISTRY LABORATORY
PR: BCH 3033. Practical work in determination and characterization of important biomolecules. Lec.-lab.

CHM 1015 FOUNDATIONS OF UNIChemistry (3)
A survey of modern chemistry designed particularly for those with a poor preparation in algebra and/or chemistry. As a preliminary to CHM 2045. Lec.

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

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

CHM 2045 GENERAL CHEMISTRY I (3)
CHM 2045 students are expected to have performed well in the placement exam* or to have satisfactorily completed CHM 1015. Fun-
damentals 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)
CR: 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 2055C GENERAL AND ANALYTICAL CHEMISTRY I**
PR: Placement test and CI. Fundamentals of general chemistry excluding most of solution chemistry. Equivalent to CHM 2045 and parts of CHM 2046. Lec.-lab.

**CHM 2056C GENERAL AND ANALYTICAL CHEMISTRY II**
PR: CHM 2055C with "C" or better. Solution chemistry and fundamentals of elementary analytical chemistry. With CHM 2055C equivalent to CHM 2045, 2045L, 2046L, and 3120C.

**CHM 2932 ELEMENTARY PHYSICAL CHEMISTRY I**
PR: CHM 2046, 2046L, or CHM 2056C. Fundamental principles of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

**CHM 3033 ELEMENTARY PHYSICAL CHEMISTRY II**
PR: CHM 2046, CHM 2046L, or CHM 2056C. Introduction to the thermodynamics. Properties of solutions with emphasis on biological applications.

**CHM 3041 ELEMENTARY PHYSICAL CHEMISTRY I**
PR: CHM 3040. Reaction kinetics, enzyme kinetics, macromolecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.

**CHM 3042C ELEMENTARY PHYSICAL CHEMISTRY LABORATORY**
CR: CHM 3040 and/or CHM 3041. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

**CHM 3610C INTERMEDIATE INORGANIC CHEMISTRY**
PR: CHM 2046, CHM 2046L, or CHM 2056C. Fundamental principles of inorganic chemistry. Lec.-lab.

**CHM 4060 USE OF THE CHEMICAL LITERATURE**
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.

**Placement examination for admission to CHM 2045 and CHM 2055C offered the first day of registration each semester, during the summer FOCUS program, and is available during weeks of scheduled classes. Students should consult registration schedules or chemistry office for time and place.**

**GRADUATE COURSES**

**BCH 5065 BIOCHEMISTRY CORE COURSE** (3)
PR: Either CHM 3211, CHM 3211L, and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.
CHM 6066 GENERAL BIOCHEMISTRY I
PR: CHM 5065 or CI. First semester of a rigorous two-semester general biochemistry course for chemistry and biology graduate students whose primary interests are in this field. Lec.

CHM 6067 GENERAL BIOCHEMISTRY II

CHM 6506 ADVANCED BIOCHEMISTRY I. ENZYMES
PR: CHM 6507 or CI. A study of biochemical systems with emphasis on enzymes. Lec.

CHM 6706 ADVANCED BIOCHEMISTRY II. BIOORGANIC MECHANISMS
PR: CHM 6067 or CI. A study of biochemical systems with emphasis on mechanisms of biological reaction. Lec.

CHM 6746 ADVANCED BIOCHEMISTRY III. BIOPHYSICAL CHEMISTRY
PR: CHM 6067 or CI. A study of biochemical systems with emphasis on the physical methods of experimentation and interpretation. Lec.

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

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

CHM 5430 CHEMICAL THERMODYNAMICS
PR: CHM 4412 or CI. The applications of thermodynamic theory to the study of chemical systems with emphasis on the energetics of reactions and chemical equilibria. Lec.

CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY
PR: CHM 4411 or CI. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course. Lec.

CHM 5931 SELECTED TOPICS IN CHEMISTRY
PR: CI. 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.

CHM 6150 ADVANCED ANALYTICAL CHEMISTRY
PR: CI. A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.

CHM 6153 ELECTROCHEMISTRY

CHY 6250 ADVANCED ORGANIC CHEMISTRY I. SYNTHESIS

CHM 6260 ADVANCED ORGANIC CHEMISTRY II. PHYSICAL-ORGANIC

CHM 6280 ADVANCED ORGANIC CHEMISTRY III. NATURAL PRODUCTS
PR: CHM 5225 or CI. A study of any of several of the following topics: terpenes, steroids, vitamins, alkaloids, prophyridins, purine, and antibiotics. Lec.

CHM 6440 CHEMICAL KINETICS
PR: CI. Theory and methods for the study of reaction rates and the elucidation of reaction mechanisms. Advanced Lec.

CHM 6460 STATISTICAL THERMODYNAMICS
PR: CI. Application of statistical mechanics to thermodynamics; the relation of molecular structure to thermodynamic properties. Lec.

CHM 6480 QUANTUM CHEMISTRY

CHM 6625 CHEMISTRY OF THE LESS FAMILIAR ELEMENTS
PR: CI. An integrated treatment of the conceptual and factual aspects of the traditionally less familiar elements, including noblegas elements, unfamiliar non-metals, alkali and alkaline-earth metals and the transition elements. Lec.

CHM 6650 STRUCTURAL INORGANIC CHEMISTRY
PR: CHM 5621 or CI. Modern theories of bonding and structure of inorganic compounds, including coordination theory, stereochemistry, solution equilibria, kinetics, mechanisms of reactions, and use of physical and chemical methods. Lec.

CHM 6907 INDEPENDENT STUDY
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

CHM 6935 GRADUATE SEMINARS IN CHEMISTRY
PR: Admission to graduate program in chemistry. Required every semester (when offered) for all students enrolled in chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar. Must be repeated. (S/U only.)

CHM 6936 CHEMISTRY COLLOQUIUM
PR: Admission to graduate program in chemistry. Frequent (usually weekly) small-group analysis of current developments. May be repeated up to a cumulative total of 10 hours. (S/U only.)

CHM 6938 SELECTED TOPICS IN CHEMISTRY
PR: CI. The following titles are representative of those that are taught under this title: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics. Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.

CHM 6946 GRADUATE INSTRUCTION METHODS
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

CHM 6947 GRADUATE RESEARCH METHODS
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

CHM 6971 THESIS: MASTER'S
Repeatable. (S/U only.)

CHM 6973 DIRECTED RESEARCH
PR: GR. Master's level. Repeatable. (S/U only.)

CHM 7820 DIRECTED RESEARCH
PR: GR. Ph.D. level. Repeatable. (S/U only.)

CHM 7980 DISSERTATION: DOCTORAL
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

GEOLOGY
Chairperson: S. B. Upchurch; Professors: R. A. Davis, Jr., W. J. Ragan, A. Rosenzweig, S. B. Upchurch; Associate Professors: M. T. Stewart, R. N. Strom; Assistant Professor: M. T. Swanson; Visiting Assistant Professor: J. R. Wadsworth, Jr.; Courtesy Faculty: Research Associate: B. W. Leyden; Professor: W. H. Taft.

UNDERGRADUATE COURSES

GLY 2016 PHYSICAL GEOLOGY
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
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
Representative parks used to illustrate current concepts in geology. For the non-science student. No credit to geology majors.

GLY 3400 STRUCTURAL GEOLOGY
PR: 12 hours of geology, MAC 1104 or equivalent. CI. 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 CI. Emphasis on morphology and habits of fossil
invertebrate groups as they evolved through geologic time. Comparisons with modern examples or similar organisms. Stratigraphic distribution of major groups. Lec.-lab.

GLY 3830 GEOL OGY FOR ENGINEERS
PR: Not standing in College of Engineering or CI. 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 2016.)

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

GLY 4220 MINERALOGY-PETROLOGY II
PR: GLY 4200 or CI. 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 PRINCIPLES OF STRATIGRAPHY
PR: GLY 4550. Emphasis on classical principles of litho- and biostratigraphy, stratigraphic nomenclature, development of stratigraphic philosophy, and paleoecographic reconstruction of sedimentary basins. Emphasis on applications to petroleum exploration. Lec.-lab.

GLY 4550 DEPOSITIONAL SYSTEMS
PR: GLY 2016, 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 eventual preservation in rocks.

GLY 4555 SEDIMENTOLOGY
PR: GLY 4220, GLY 4550 or CI. 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
PR: Senior or advanced junior standing and CC. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab.

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

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

GLY 4820 INTRODUCTION TO HYDROGEOLOGY
PR: GLY 2016, advanced junior or senior standing, one year each physics and calculus recommended, or CI. Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-field-lab.

GLY 4905 INDEPENDENT STUDY
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated. (S/U only.)

GLY 4915 UNDERGRADUATE RESEARCH
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
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
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
Topics in biological, chemical, geological, and physical oceanography presented in lectures by a number of specialists in these fields. (Also listed under Marine Science.)

GRADUATE COURSES

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

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

GLY 5310 IGNEOUS AND METAMORPHIC PETROLOGY
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
PR: Senior or advanced junior standing, one year of Physics of CI. Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to site investigation and mineral deposits. Lec.-lab.-field trips.

GLY 5615 ADVANCED STRATIGRAPHIC PALEONTOLOGY
PR: GLY 3610, GLY 4550 or CI. Morphology, geologic distribution, and stratigraphic ranges of important invertebrate guide fossils. Lec.-lab.-field trips.

GLY 5825 ADVANCED HYDROGEOLOGY
PR: GLY 4820, MAC 3282 or MAC 3412 or CI. Flow systems, analytical and numerical solutions to ground water flow problems. Emphasis on the theoretical aspects of ground water flow systems and their interaction with the geologic framework. Lec.-lab.-field trips.

GLY 5932 SELECTED TOPICS IN GEOLOGY
PR: Senior or advanced junior standing and CC. 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.

GLY 6250 CLAY MINERALOGY
PR: Graduate standing in geology or CI. Composition, structures, origin, and diagenesis of clay minerals. Identification of clay minerals by X-ray diffraction techniques.

GLY 6290 SEDIMENTARY GEOCHEMISTRY
PR: GLY 5241 or CI. Fundamentals of aqueous geochemistry in relation to chemical and biochemical precipitation of sedimentary materials. Geochemistry of fluids with emphasis on diagenesis.

GLY 6345 SEDIMENTARY PETROGRAPHY
Classification, petrographic description and interpretation of sedimentary rocks including depositional environments and diagenesis. Lec.-lab.

GLY 6410 GEOLOGY OF NORTH AMERICA
PR: Graduate standing or CI. Regional structure, stratigraphy, and history of North America.

GLY 6420 GLOBAL TECTONICS
PR: Graduate standing or CI. Development of the global tectonic hypothesis, modern global tectonic theory, and application of the theory in selected regions of the earth.

GLY 6575 COASTAL SEDIMENTATION
PR: GLY 4555 or equivalent. Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec.-lab.-field trips.

GLY 6650 MARINE PALEOECOLOGY
PR: GLY 3610, GLY 4555 or CI. Interpretation of the relationships between ancient organisms and their environment with emphasis on the substrate. Applications of modern benthic marine environments and sediment-organism relationships to fossil record. Lec.-field trips.

GLY 6735 SELECTED TOPICS IN GEOLOGY
PR: CI. May be repeated for credit.

GLY 6905 INDEPENDENT STUDY
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

GLY 6910 DIRECTED RESEARCH
PR: GR. Master's level. Repeatable. (S/U only.)

GLY 6931 GRADUATE SEMINAR
PR: CC. May be repeated for credit. (S/U only.)
GRADUATE COURSES

OCC 5050 BIOLOGICAL OCEANOGRAPHY (3)
Study of the life in the sea with reference to distribution, reproduction, adaptation, evolution, and populations. Lab.-teaching. For students who have not majored in a biological science.

OCC 6567 PHYTOPLANKTON ECOLOGY (3)
PR: BS in biology, OCC 5050, or CI. An introduction to the phyology and ecology of marine phytoplankton. Emphasis will be on variable interactions which regulate photosynthesis, production, nutrient kinetics, and internal transport, spatial distribution, and succession.

OCC 6576 METHODS IN PHYTOPLANKTON ECOLOGY (3)
PR: BS in biology, OCC 5050, or CI. Laboratory and field procedures for identification, culture techniques, enumeration, growth and nutrient uptake rates, photosynthesis, biomass estimates, enzyme kinetics, etc. will be covered. Practical application of the techniques will be made in class designed experiments and/or a 5-10 day research cruise.

OCC 6606 MARINE ZOOGEOGRAPHY (3)
PR: BS in biology, OCC 5050, or CI. The geographical distribution of animals in the marine environment of the world including the major habitats of the benthic and pelagic realms. Studies of the relationships between distributional and evolutionary patterns.

OCC 6607 BIOLOGICAL PHYSIOLOGY (3)
PR: BS in biology, 1 year general and organic chemistry, OCC 5050, or CI. The study of the physiological mechanisms that enable organisms to live in their environment, and deal with changes in their environment. Coursework is focused on aquatic ecologies. Topics include osmotic and ionic regulation, nitrogen excretion, feeding and digestion, respiration, temperature and energetics. Lab. separate.

OCC 6611 METHODS IN BIOLOGICAL OCEANOGRAPHY (1)
PR: CI. To acquaint students with field and laboratory equipment and techniques currently used in biological oceanography. Emphasis will be on field problems especially those requiring research at sea.

OCC 5050 CHEMICAL OCEANOGRAPHY (3)
PR: CHM 2047 and CI. The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, modern methods of analysis in routine use in oceanography. Lab.-teaching.

OCC 5057 METHODS IN CHEMICAL OCEANOGRAPHY (1)
PR: OCC 5050 or CI. An intensive study of the use and limitations of field and laboratory equipment which is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.

OCC 5216 MARINE ORGANIC CHEMISTRY (3)
PR: BS in biology, chemistry, biochemistry, OCC 5050 or CI. Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction with trace metals, isotopic fractionation, microbial alternations, and biochemical tracers.

OCC 5059 MARINE POLICY (2)
PR: OCC 3001 or CI. Course explores marine problems and their impact on society. Topics of interest include financing and organization of marine science; regulation (local, state, and Federal) of uses of marine waterways, and the sea; political, social, and legal problems associated with marine pollution and the recovery and development of marine resources, conservation and multiple use-making in the marine sphere.

OCC 5934 SELECTED TOPICS IN OCEANOGRAPHY (1-3)
PR: CI. Special topics in chemical, biological, geologic, and physical oceanography.

OCC 5908 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

OCC 4093 SELECTED TOPICS IN OCEANOGRAPHY (1-3)
PR: CI. Special topics in biological, chemical, geologic, and physical oceanography.

OCC 4093 GRADUATE SEMINAR IN OCEANOGRAPHY (1)
PR: Graduate standing. May be repeated. (S/U only.)

OCC 6924 FIELD STUDIES IN MARINE SCIENCE (3)
PR: One of the following: OCC 5050, OCC 6671, OCC 5050, OCC 6057, OCC 6075, OCC 5051, OCC 6056, or CI. Combination of classroom study with the collection, analysis, and interpretation of field data to attack specific problems in marine science both for deep sea and nearshore environments.

OCE 5011 DISSERTATION: MASTER'S (var.)
Repeatable. (S/U only.)

OCE 6972 DIRECTED RESEARCH (var.)
PR: G. Master's level. Repeatable. (S/U only.)

OCE 7912 DIRECTED RESEARCH (1-19)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

OCE 7950 DISSERTATION: DOCTORAL (1-19)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (Z/U only.)

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

OCC 6492 MARINE ISOTOPE 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.

OCC 6475 METHODS IN GEOLOGICAL OCEANOGRAPHY (1)
PR: OCC 5050 or CI. Description and application of the modern techniques of geology and geophysics used to investigate.

OCC 5080 GEOLOGY OF CONTINENTAL MARGINS (3)
PR: B.S. in geology, OCC 5050, or CI. Analysis of tectonic, structural and stratigraphic development and general geologic history of the major types of continental margins. Includes interpretation of seismic data.

OCC 6356 STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (2)
PR: B.S. in Geology, OCC 5050, or CI. Study of seismic reflection data for the purpose of determining structural or stratigraphic facies distribution and, general geologic history of stratigraphic packages. Course includes fundamentals of seismic reflection and depositional sequence/seismic facies analyses.

OCC 6075 SCANNING ELECTRON MICROSCOPY: THEORY AND TECHNIQUE (4)
PR: Graduate standing, one year physics, or CI. Theory and practical application of the scanning electron microscope and the energy dispersive X-ray analyser. Emphasis is on independent operation of the instrument, preparation techniques for specimens, and interpretation of results.
OCP 6656C MARINE MICROPALeOANTHOLoGY (4)
PR: B.S. in geology or biology, OCG 5050, or Cl. Introduction to the microscopic marine fauna and flora found in the fossil sedimentary record. Emphasis is placed on the ecology, paleoecology, paleontology, and biostratigraphic record of calcareous and siliceous microfossils.

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

OCP 6856 METHODS IN PHYSICAL OCEANOGRAPHY (1)
PR: MAC 3414, OCG 5050 or OCP 5051, and Cl. Field and laboratory techniques for acquisition, reduction, display, and discussion of physical oceanographic data (e.g., waves, tides, currents, dissolved and suspended constituents).

PCB 6476 DYNAMICS OF MARINE BENTHIC COMMUNITIES (3)
PR: EGN 2210, ZOO 555C, or Cl. Theoretical approach to the study of benthic communities in fluctuating and constant environments. Methods of analysis of benthic data will be evaluated and discussed. Computer programs will be utilized for analysis wherever possible. Lec.-lab.

ZOO 5456C Ichthyology (4)
PR: CI or senior or graduate status; BSC 210C, BSC 212, PCB 4674 (helpful), ZOO 3713C (helpful). The evolution systemsatics, and ecology of fishes. (Also listed under Zoology.)

ZOO 6526 ZOOPLANKTON BIOLOGY (4)
PR: B.S. in biology, OCB 5050, or Cl. The taxonomy and biology of marine zooplankton with emphasis on tropical-subtropical fauna.

MATHEMATICS


UNDERGRADUATE COURSES

COP 3215 COMPUTER APPLICATIONS OF MATHEMATICS (3)
CR: MAC 3412 or CC. Computer applications to mathematics, especially calculus, with FORTRAN programming.

MAA 4211 ADVANCED CALCULUS I (4)
PR: MAC 3413, with a grade of "C" or better; MHF 3102 and MAS 3103 or CI. Concepts of limit, continuity, differentiation, and integration of functions in one and several variables. Major topics include partial differentiation, Reimnn-Stieljes integrals, improper integrals, infinite series, uniform convergence, implicit-function theorems, line and surface integrals, vector analysis.

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

MAC 1104 COLLEGE ALGEBRA AND TRIGONOMETRY (4)
PR: Two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033, taught on USF campus of CC, pass placement test in algebra. Real numbers and their properties, algebraic expressions, 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 1104 in students with credit in MAT 2243 or MAT 2244.)

MAC 1114 COLLEGE TRIGONOMETRY (2)
PR: 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 1104.)

MAC 2243 ELEMENTARY CALCULUS I (4)
PR: 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 2243-MAC 2244 is primarily for student from Biological Sciences. Social Sciences and Business. (No credit for math majors or students with credit in MAC 3281 or MAC 3411.)

MAC 2244 ELEMENTARY CALCULUS II (4)
PR: MAC 2243. 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 3412.)

MAC 3281 ENGINEERING CALCULUS I (3)
PR: MAC 1004 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 2243 or MAC 3411.)

MAC 3282 ENGINEERING CALCULUS II (3)
PR: MAC 3281. Definite integral, trigonometric functions, logs, exponential, applications. (No credit for students with credit in MAC 2244 or MAC 3412.)

MAC 3283 ENGINEERING CALCULUS III (3)
PR: MAC 3282. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3413.)

MAC 3411 CALCULUS I (4)
PR: MAC 1104 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 2243 or MAC 3281.)

MAC 3412 CALCULUS II (3)
PR: MAC 3411 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, log, exponential and trig functions. (No credit for student with credit in MAC 2244 or MAC 3282.)

MAC 3413 CALCULUS III (4)
PR: MAC 3412 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.)

MAC 4401 NUMERICAL ANALYSIS (4)
PR: MAC 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.

MAP 4302 DIFFERENTIAL EQUATIONS (3)
PR: MAC 3413. First order linear and nonlinear differential equations, higher order linear equations, applications.

MAS 3103 LINEAR ALGEBRA (3)
PR: MAC 3411 or CC. Matrices, systems of linear equations, linear transformations.

MAS 4156 VECTOR ANALYSIS (3)
PR: MAC 3413. The algebra and calculus of vectors, applications, general coordinates, introduction to tensor analysis. (No credit for both MAA 4211 and MAS 4156.)

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

MAT 2034 COLLEGE MATHEMATICS (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 1104.)

MAT 4906 INDEPENDENT STUDY (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Natural Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

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

MGF 2202 FINITE MATHEMATICS (3)
PR: Passing score on placement test. Students should have the equivalent of two years high school math including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus. Linear functions, matrices and systems of linear equations, linear programming, logic sets, permutations and combinations, introduction to statistics, introduction to probability.
MAD 6407 ANALYSIS OF NUMERICAL METHODS (4)

MAD 6510 ANALYSIS OF ALGORITHMS (4)
PR: CC. Mathematical theory associated with algorithms for computer information processing; expected time and space requirements of algorithms, comparison of algorithms, construction of optimal algorithms, theory, underlying particular algorithms.

MAD 6616 ALGEBRAIC AUTOMATA THEORY (3)
PR: MAS 5312 or CC. Algebraic automata theory.

MAD 6617 ALGEBRAIC CODING THEORY (3)
PR: MAD 6616 or CC. Algebraic coding theory.

MAE 5874 ABSTRACT ALGEBRA FOR TEACHERS (2)
PR: MAS 3103 and MAS 4301 and bachelor’s degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for Mathematics majors.)

MAE 5876 MATHEMATICAL ANALYSIS FOR TEACHERS (4)
PR: MAC 3413 and bachelor’s degree or CC. Advanced consideration of limits, continuity, derivatives, differentials. (No credit for Mathematics majors.)

MAP 5205 MATHEMATICAL OPTIMIZATION THEORY I (3)

MAP 5316 INTERMEDIATE DIFFERENTIAL EQUATION I (3)

MAP 5317 INTERMEDIATE DIFFERENTIAL EQUATION II (3)
PR: MAP 5316. Topics selected from oscillation and comparison theorems, stability and asymptotic behavior, perturbation theory, nonlinear theory, special functions.

MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS (3)
PR: MAP 4302 and CC. Separation of variables, the heat equation, wave equation, Laplace’s equation, classification, Green’s functions, with emphasis on applications.

MAP 5407 METHODS OF APPLIED MATHEMATICS (3)

MAP 6206 MATHEMATICAL OPTIMIZATION THEORY II (3)

MAP 6336 THEORY OF ORDINARY DIFFERENTIAL EQUATIONS (4)
PR: MAP 5316 or MAP 5407 or CC. Advanced topics selected from: existence and uniqueness theory, singularity theory, asymptotics and stability, eigenfunctions, perturbations, topological methods.

MAP 6350 PARTIAL DIFFERENTIAL EQUATIONS (4)
PR: MAP 5345 or CC. Classification of second order equations, Cauchy problems, Dirichlet and Neumann problems, mixed problems, properties of solutions.

MAP 6375 NUMERICAL TECHNIQUES FOR PARTIAL DIFFERENTIAL EQUATIONS (3)

MAS 5146 ADVANCED LINEAR ALGEBRA (3)
PR: MAS 3103, MHF 3102, or CC. Vector spaces, linear independence, dimensions, matrices, linear transformations.

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

MAS 5311 ALGEBRA I (3)
PR: MAC 3413, MAS 5146, MHF 3102. An introduction to group theory.
MEDICAL TECHNOLOGY


UNDERGRADUATE COURSES

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 4215 CLINICAL MICROSCOPY I
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. 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 4465 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 4545 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.

MLS 4625C CLINICAL CHEMISTRY I
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in the techniques and procedures for use in clinical chemical analyses. A hospital internship course for medical technology majors.

PHYSICS
Chairperson: S Sundaram; Professors: S. C. Bloch, S. R. Deans, R. W.
UNDERGRADUATE COURSES

PHS 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY
PR: One year of non-calculus general physics. CR: MAC 3283 or MAC 3413. 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.

PHS 3102 PROBLEMS IN GENERAL PHYSICS I
CR: PHY 3040. First semester of a 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.

PHS 3103 PROBLEMS IN GENERAL PHYSICS II

PHS 4802 ACOUSTICS FOR COMMUNICATION
Non-mathematical study of general wave motion and associated phenomena. Acoustic resonance and response of the ear. Introduction to harmonic analysis of complex wave-forms with application to testing with pure tones and various types of waves, Acoustic instrumentation. (No credit for science majors.) Semesters: Fall, Spring.

PHS 4814 FUNDAMENTAL ACOUSTICS

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 audio-visual presentations play important roles.

PHY 2050, 2050L GENERAL PHYSICS AND LABORATORY
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 2051, 2051L GENERAL PHYSICS AND LABORATORY
CR: PHY 2050, PHY 2050L. Second semester of general physics and lab for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

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

PHY 3040, 3040L GENERAL PHYSICS AND LABORATORY
CR: MAC 3281 or MAC 3411. First semester of a two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 3041, 3041L GENERAL PHYSICS AND LABORATORY
CR: MAC 3282 or MAC 3412, PHY 3040, PHY 3040L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 3123 MODERN PHYSICS

PHY 3223 MECHANICS I
CR: MAC 3283 or MAC 3413 and either PR: PHY 3040 or CR: PHS 3101. First semester of a two semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work. Fall Semester.

PHY 3323C ELECTRICITY AND MAGNETISM I
PR: PHY 3041, MAC 3283 or MAC 3413. Electromagnetic circuits; resistance, capacitance, inductance, direct and alternating current circuits, thermoelectricity, and instrumentation. Laboratory. First semester of sequence PHY 3323C, PHY 4324.

PHY 3432 OPTICS
PR: PHS 3101 or PHY 3041; CR: MAC 3283 or MAC 3413. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory. Fall Semester.

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

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

PHY 4324 ELECTRICITY AND MAGNETISM II

PHY 4404 HOLOGRAPHY FOR FILM MEDIA
CR: Junior standing in any major of CC. Practical instruction and laboratory experience in the making of holograms. Qualitative theory of lasers and holography. (For non-majors.) Spring Semester.

PHY 4526 STATISTICAL PHYSICS

PHY 4604 QUANTUM MECHANICS I
PR: PHY 3123 or CI. Postulates, Schroedinger'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
CR: 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.

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

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

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

PHY 4930 OPTICAL SEMINAR
CR: Senior or advanced junior standing or CC. All undergraduate physics majors must enroll in this course at least twice and are expected to attend all Physics Colloquia. (S/U only.) Semesters: Fall, Spring, Summer.

PHY 4936 SELECTED TOPICS IN PHYSICS
CR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.
PHS 5114 METHODS OF THEORETICAL PHYSICS II (3)
PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Elements of complex analysis including conformal mapping and calculus or residues, Fourier analysis, and transform calculus. Spring Semester.

PHS 5304 NUCLEAR PHYSICS (3)
PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reactions, and high energy physics. Spring Semester.

PHS 5405 SOLID STATE PHYSICS I (3)

PHS 5505 PLASMA PHYSICS I (3)
PR: PHY 4324 or CI. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation. Instabilities. Fall Semester.

PHS 6136 PHYSICAL APPLICATIONS OF GROUP THEORY (3)
PR: PHS 5114 or CI. Introduction to the theory of Lie Groups and Lie Algebras; applications to atomic and molecular physics, solid state physics, nuclear physics, classical physics, and elementary particle physics. (Offered alternate years.)

PHS 6204 ATOMIC AND MOLECULAR SPECTRA (3)
PR: PHY 4604 or CI. Quantitative study of atomic and molecular structure and spectra. Spring Semester.

PHS 6426 SOLID STATE PHYSICS II (3)
PR: PHY 5405 or CI. Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence PHS 5405, PHS 6426. Fall Semester.

PHS 6525 PLASMA PHYSICS II (3)
PR: PHS 5505 or CI. An analytical study of the various types of wave phenomena in plasmas describable by the continuum equations, the Boltzmann-Vlasov equation or the Boltzmann equation. Spring Semester.

PHS 6607 THEORY OF RELATIVITY (3)
PR: PHS 5113 or CI. The special and general theory of relativity, including the gravitational field equations, applications of the special theory, experimental tests of the general theory and various topics of current research interest. (Offered alternate years.)

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

College of Nursing

NURSING


Undergraduate Courses

HUN 3201 NUTRITION (3)
PR: Course work in chemistry and biology or, permission of faculty. Open to majors and non-majors. The study of fundamental principles of 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 3130 NURSING PROCESS II (2)
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 pathology, nutrition, pharmacology and essential psychomotor skills.

NUR 3130L NURSING INTERVENTION II (3)
PR: Permission of faculty. Clinical nursing practice linked with Nursing Process II and focuses on maturing families and their health needs. Includes psychomotor skills, nutrition, pharmacology, psychosocial and community aspects.

NUR 3321 NURSING PROCESS III (2)
PR: Permission of faculty. Development of nursing process as it relates to mental health-psychiatric nursing needs of clients. Integrates pathology, nutrition, pharmacology and essential psychomotor skills of all ages.

NUR 3321L NURSING INTERVENTION III (2)
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 pathology, nutrition, pharmacology, essential psychomotor skills and community aspects.

NUR 3612 NURSING PROCESS II (3)
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 3612L NURSING INTERVENTION II (2)
PR: Permission of faculty. Clinical nursing practice course on healthy families in a variety of settings (linked to Nursing Process II). Incorporates pathology, nutrition, pharmacology and essential psychomotor skills of all ages.
parates psychomotor skills, nutrition, pharmacology, psychosocial and community aspects.

NUR 3641L NURSING PRACTICUM I (3)
PR: All preceding courses in prescribed curriculum plan or permission of Dean. Clinical practice providing experience in application of the nursing process with selected multi-problem individuals and families in primary care settings.

NUR 3641 NURSING PROCESS IN PRIMARY CARE (3)
PR: RN students only. Admission to major or faculty permission. For the purpose of assessment skills and nursing process in serving healthy and multi-problem clients in primary care settings. Functions of skill examination included.

NUR 3722C CLIENT ASSESSMENT I (3)
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 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 4636 NURSING PROCESS IV (3)
PR: Permission of faculty. Care of institutionalized patients with selected major health problems, and care of the aged and chronically ill. Includes pathophysiology, nutrition, psychosocial aspects, pharmacology and appropriate psychomotor skills.

NUR 4636L NURSING INTERVENTION IV (4)
PR: Permission of faculty. Clinical nursing practice in community and secondary care settings (linked to Nursing Process IV.) Includes essential psychomotor skills, pharmacology, nutrition, and psychosocial health aspects.

NUR 4651 NURSING PROCESS V (3)
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 4651L NURSING INTERVENTION V (2)
PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process V) with clients of all ages with problems arising from electrolyte, metabolic, endocrine and genitourinary disturbances. Includes pathophysiology, nutrition, pharmacology, essential psychomotor skills, psychosocial and community health aspects.

NUR 4652 NURSING PROCESS VI (2)
PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from disturbances in oxygenation. Integrates pathophysiology, nutrition, pharmacology; psychosocial, essential psychomotor skills and community health aspects.

NUR 4652L NURSING INTERVENTION VI (2)
PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process VI) with clients of all ages with problems arising from disturbances in oxygenation. Includes essential psychomotor skills, pathophysiology, nutrition, pharmacology, psychosocial and community health aspects.

NUR 4653 NURSING PROCESS VII (2)
PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from disturbances in coordination, perception, or sensory function. Integrates pathophysiology, nutrition, essential psychomotor skills, pharmacology, psychosocial and community aspects.

NUR 4653L NURSING INTERVENTION VII (2)
PR: Permission of faculty. Clinical nursing practice in secondary or tertiary care settings (linked to Nursing Process VII) with clients in all age groups with disturbances in coordination, perception or sensory function. Integrates pathophysiology, essential psychomotor skills, nutrition, pharmacology, psycho-social and community aspects.

NUR 4654 NURSING PROCESS IN COMPLEX SITUATIONS (4)
PR: RN. Previous courses in sequence or permission of Dean. Content focuses on clinical management of clients of all ages with common and complex health illness problems.

NUR 4654L NURSING PRACTICUM II (4)
PR: RN. Permission of Dean. Application of theory from NUR 4654 in management of care for clients with complex health problems in a variety of health care settings.

NUR 4910C INDEPENDENT STUDY (1-5)
PR: Permission of faculty. Open to majors and non-majors. Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor. May be repeated to maximum of 5 credits.

NUR 4930 SELECTED TOPICS IN NURSING (2-8)
PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory and may be repeated for different topics. (S/U only.)

* NUR 4943C NURSING PRACTICUM III (5)
PR: All preceding courses in prescribed curriculum plan or permission of the well-elderly, including experience in a clinical and/or functional area of professional nursing which is related to student’s professional goals. Associated seminars and/or institutes. (S/U only.)

NUR 4943L PRECEPTORSHIP (6)
PR: Permission of faculty. Concentrated clinical nursing practice (preceptorship) under faculty guidance. The nature and goals of the experience will be determined collaboratively by students, faculty and personnel from cooperating agencies where students elect experience.

NUU 3500 NURSING CORE I (3)
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.

NUU 3501 NURSING CORE II (2)
PR: Permission of faculty. Continuation of Nursing Core I.

NUU 3502 NURSING CORE III (2)
PR: Permission of faculty. Continuation of previous core courses.

* NUR 4300 NURSING INQUIRY I (2)
PR: All preceding courses in prescribed curriculum plan or permission of Dean. This course will emphasize the relationship between research and the improvement of nursing practice and health care: attention will be directed toward the need for research in nursing, areas currently being investigated, ethical issues, the research process, and the implications of the research process for practice.

NUU 4504 INTERMEDIATE NURSING CORE (4)
PR: Admission to the major. Designed to assist registered nurses in building upon previous knowledge and experience in the following areas: research, roles, issues, and historical developments in nursing: ethical-legal matters; leadership and management; quality assurance; health team dynamics.

NUU 4505 NURSING CORE IV (2)
PR: Permission of faculty. Continuation of previous core courses with emphasis on issues and trends related to nursing roles in the health care delivery system and on nursing research.

NUU 4506 NURSING CORE V (3)
PR: Permission of faculty. Continuation of previous core courses with continued research emphasis and seminars related to problems of transition from student to practitioner including reality shock, use of supervision, self-evaluation, professional development and setting career goals.

*Courses available only to students currently enrolled.

GRADUATE COURSES

NUR 6507C ADULT NURSING (5)
PR: Advanced Physiologic Assessment. Exploration and testing of theoretical knowledge of growth and development in adulthood (rhythms, immunology and inflammation, pain, and abuse) and application in advanced adult nursing.

NUR 6513 GERONTOLOGICAL NURSING I (3)
PR: Permission of faculty. This foundation course in gerontological nursing emphasizes the physiological and psychological aspect of nursing of the well-elderly, including functional assessment.

NUR 6514 GERONTOLOGICAL NURSING II (3)
PR: Social Policy in Aging or permission of faculty. Theoretical and
clinical experience which emphasizes the health maintenance and environmental interaction of the well elderly.

NUR 6615 ISSUES IN GERONTOLOGY (2)
PR: Admission to program or permission of faculty. A multidisciplinary focus on current developments in gerontology in the fields of biology, psychology, medicine, nutrition, economics, adult education, sociology and nursing.

NUR 6616 PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF GERONTOLOGICAL NURSING (2)
PR: Admission to program or permission of faculty. A study of the physiological and psychological changes in gerontological patients and implications for nursing practice.

NUR 6617 GERONTOLOGICAL NURSING PRACTICUM I (4)
PR: Permission of faculty. Clinical practicum with emphasizes effective nursing intervention in acute and chronic illness in the elderly including: treatment of illness, prevention of complications, rehabilitation and health education.

NUR 6618 GERONTOLOGICAL NURSING PRACTICUM II (4)
PR: Gerontological nursing sequence course or permission of faculty. Practicum experience emphasizes leadership-management principles which assist the gerontological nurse in health care delivery of the elderly.

NUR 6620 ADVANCED PHYSIOLOGICAL ASSESSMENT (4)
PR: Admission to program or permission of faculty. Focus on cellular physiology and the feedback and control mechanism of bodily functions at the cellular, organ and system level.

NUR 6621 ADVANCED PATHOPHYSIOLOGY (2)
PR: Advanced Physiologic Assessment. A conceptual approach which focuses on disease mechanisms to establish a sound scientific base for clinical assessment and management of common health problems of adult patients.

NUR 6751C ADULT HEALTH ASSESSMENT (3)
PR: Admission to program or permission of faculty. Advanced Physiologic prerequisite or concurrent. Emphasizes advanced physical and psychological clinical assessment skills and includes a theoretical and practical approach based on nursing process.

NUR 6905 INDEPENDENT STUDY (1-6)
Specialized individualized study determined by students' needs and interests which requires an approved contract with a faculty member.

NUR 6931 SELECTED TOPICS (1-4)
Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.

NUR 6945 PRACTICUM IN CLINICAL NURSING I (4)
PR: Adult Nursing. Intensive directed study in advanced professional nursing which focuses on testing of nursing theories, teaching strategies and management of selected patients.

NUR 6946 PRACTICUM IN CLINICAL NURSING II. (4)
PR: Practicum in Clinical Nursing I. A summative clinical experience which focuses on the role of the advanced nurse clinician as a clinical specialist or adult primary care nurse.

NUR 6947 PRACTICUM IN NURSING EDUCATION (4)
PR: Course requirements for nursing educational functional minor; permission of faculty. Instructional experiences which utilize educational concepts and instructional strategies in a variety of educational settings in nursing.

NUR 6971 THESIS: MASTERS'S (var.)
Repeatable. (S/U only.)

NUT 6227 PHARMACOLOGY FOR ADVANCED NURSE CLINICIANS (2)
PR: NUR 6720 Advanced Physiologic Assessment. Graduate status. Synthesizes information relative to the pharmacological actions of selected classes of drugs with emphasis on mechanism, pharmacodynamics and implications for nursing practice.

NU 6617 NURSING EDUCATION IN INSTITUTIONS OF HIGHER EDUCATION (2)
PR: Permission of faculty. An examination of the historical development of nursing education within higher education, issues in higher education and their effect on nursing education, and the future role of nursing education in institutions of higher education.

NU 6622 ADVANCED ROLE DEVELOPMENT (3)
PR: Permission of faculty. Combined lecture/seminar focusing on an exploration of role theory and its application to advanced nurse roles.

NU 6623 CURRICULUM AND INSTRUCTION IN NURSING EDUCATION (2)
PR: Permission of faculty. Trends and issues in curriculum development, faculty role, instructional strategies, internal and external factors influencing decisions in curriculum and instruction and implications for their utilization in nursing programs.

NU 6640 FACTORS INFLUENCING HEALTH CARE (2)
PR: Admission to program or permission of faculty. An interdisciplinary course that focuses on contemporary social, political and economic issues related to health care and legal-ethical concepts applicable to the decision-making process in nursing practice, education and research.

NU 6660 NURSING RESEARCH (3)
PR: Theory Development in Nursing. Includes an overview of research in nursing, identification of researchable problems, design and analysis of research proposals and research methodologies and strategies applicable to nursing.

NU 6610 THEORY DEVELOPMENT IN NURSING (3)
PR: Admission to program or permission of faculty. Focuses on theory development in nursing, including theory development, relationships of theoretical frameworks, and analysis of conceptual models as a basis for nursing diagnosis.

PUBLIC HEALTH PROGRAM

GRADUATE COURSES

HEALTH CARE ORGANIZATION AND MANAGEMENT

HSC 6160 HEALTH CARE ORGANIZATION AND MANAGEMENT I (3)
CI. General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, national, and international levels.

HSC 6170 THEORY AND METHODS OF HEALTH PROGRAM PLANNING AND EVALUATION (3)
PR: HSC 6160 or CI. An in-depth orientation to the concepts of planning and evaluation and their application to decision-making in local, regional, state, national, and international health programs.

ECP 6536 HEALTH ECONOMICS (3)
PR: ECO 2023 or equivalent and CI. The microeconomic analysis of the structure of the health care industry and the economic incentives facing physicians, patients, and hospitals will be studied.

Epidemiology and Health Statistics

HSC 6412 EPIDEMIOLOGY AND HEALTH STATISTICS (3)
CI. Study of quantitative methods to evaluate the distribution and determinants of disease in populations and to assess data and evaluate conclusions using statistical principles.

HSC 6413 EPIDEMIOLOGY OF INFECTIOUS AND NON-INFECTIOUS DISEASES (3)
PR: HSC 6411 or CI. A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods.

Community Health Education

HES 6120 FOUNDATIONS OF HEALTH EDUCATION (3)
CI. Study of the factors which influence health behavior and the role
and responsibilities of health education in the intervention process.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH

HSC 6431 OCCUPATIONAL HEALTH (3)
The study of historical, epidemiologic, administrative, and legal and clinical aspects of health workers and of the workplace.

HSC 6435 INDUSTRIAL HYGIENE (3)
CI. A study of the recognition, evaluation, and control of the workplace affecting the health of employees.

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES

AFRICAN AND AFRO-AMERICAN STUDIES


UNDERGRADUATE COURSES

AFA 2001 INTRODUCTION TO AFRO-AMERICAN STUDIES (3)

AFA 4150 AFRICA AND THE UNITED STATES (3)
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 (3)
A study of social institutions as they relate to the American Black ghetto, with emphasis on social systems operating within and on the ghetto.

AFA 4335 BLACK WOMEN IN AMERICA (3)
PR: WST 2010 or 2011, or AFA 2001, or CI. An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths and realities surrounding that experience. (Offered for credit in Women’s Studies or African and Afro-American Studies.)

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

AFA 4031 SELECTED TOPICS IN AFRO-AMERICAN STUDIES (1-3)
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

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

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

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

AFS 4321 EDUCATIONAL DEVELOPMENT IN THE AFRICAN WORLD (3)
An examination of educational systems and experiences of African peoples cultural past and needs for their future. Attention to changing structures and functions of education as manifestations of governmental and societal needs and desires.

AFS 4910 RESEARCH AND FIELD STUDIES (1-3)
A course linking the study pursued by the student with research and work projects in the Tampa Black community.

AMH 3571, 3572 AFRO-AMERICAN HISTORY (3)
A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America (AMH 35 71, 1943-1865; AMH 3572 1865-1900-present.)

CPO 4240 GOVERNMENT AND POLITICS OF AFRICA (3)
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

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

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

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

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

INR 4254 AFRICA IN WORLD POLITICS (3)
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 (3)
Major themes and participants in the Black liberation movement since 1900.

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

GRADUATE COURSES

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

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

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

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

ANTHROPOLOGY

Chairperson: G. Kushner; Professors: M. V. Angrosino, R. T. Grange, Jr., G. Kushner, A Shiloh, J. R. Williams, A. W. Wolfe; Associate Professors: J. J. Smith, C. W. Wienker; Assistant Professors: S. J. Gluckman, S. Greenbaum, P. P. Waterman, L. M. Whiteford; Courtesy Faculty: Assistant Professor: J. D. Uzzell; Other Faculty: M. D. Vesper.

UNDERGRADUATE COURSES

ANT 2000 INTRODUCTION TO ANTHROPOLOGY (3)
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 3005 THE ANTHROPOLOGICAL PERSPECTIVE (3)
For non-anthropology majors only. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist's crosscultural view of the human species as adapting through biosocial means to life on this planet. May not be counted for credit toward an anthropology major.

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

ANT 3410 CULTURAL ANTHROPOLOGY (3)
PR: ANT 2000 or CI. 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 PHYSICAL ANTHROPOLOGY (3)
PR: ANT 2000 or CI. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.

ANT 3610 ANTHROPOLOGICAL LINGUISTICS (3)
PR: ANT 2000 or CI. 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 HISTORY OF ANTHROPOLOGICAL THEORY (3)
PR: Senior standing with major in anthropology or equivalent. The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th Century when they became incorporated into the new discipline of anthropology. 20th Century anthropological developments on these themes are considered.

ANT 4124 FIELD METHODS IN ARCHAEOLOGY (4)
PR: ANT 3100 or CI. 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 CI. Methods, theory and history of underwater archaeology. Diving history and physiology are considered. Emphasis on underwater archaeology as anthropology and the management of underwater archaeological resources.

ANT 4153 NORTH AMERICAN ARCHAEOLOGY (3)
PR: ANT 3100 or CI. 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 CI. 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 CI. 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 CI. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 HISTORICAL ARCHAEOLOGY (3)
PR: ANT 3100 or CI. 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 CI. 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 CI. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design and construction. Discussion of museum-related issues such as administration and curation.

ANT 4182 CONTEMPORARY PROBLEMS IN ARCHAEOLOGY (3)
PR: ANT 3100 or CI. Focuses on the development of current archaeological method and theory. Examines the relationship between archaeology and the other branches of anthropology.

ANT 4226 ANTHROPOLOGY OF ART (3)
PR: ANT 3410 or CI. 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 crosscultural materials. Consideration of diffusion and change of art forms, commercial and ethnic arts, and role of the artist.

ANT 4231 FOLKLORE (3)
PR: ANT 3410 or CI. 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 ANTHROPOLOGY OF RELIGION (3)
PR: ANT 3410 or CI. 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 symbols of belief will be considered in light of their impact
on the social, political or economic aspects of peoples' lives.

**ANT 4302 WOMEN IN CROSS-CULTURAL PERSPECTIVE (3)**
PR: ANT 3410 or CI. 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 Women's Studies.)

**ANT 4305 VISUAL ANTHROPOLOGY (3)**
PR: ANT 3410 or CI. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of anthropological monographs that emphasize the goal of “visual literacy.” Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.

**ANT 4312 CULTURES OF NATIVE NORTH AMERICA (3)**
PR: ANT 3410 or CI. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

**ANT 4316 CULTURES OF THE CONTEMPORARY UNITED STATES (3)**
PR: ANT 3410 or CI. Special concerns include the American community, change and continuity in American values and lifestyles, and the historical background and recent manifestations of human problems in the United States.

**ANT 4326 CULTURES OF MESOAMERICA (3)**
PR: ANT 3410 or CI. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

**ANT 4340 CULTURES OF THE CARIBBEAN (3)**
PR: ANT 3410 or CI. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indentures and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts and the literature of the contemporary Caribbean will also be surveyed.

**ANT 4347 CULTURES OF THE MIDDLE EAST (3)**
PR: ANT 3410 or CI. Delineates the environment and cultural ecology of the Middle East and analyzes how they have influenced the variety of subcultures of the region. The rise and fall of the "little tradition" of the enduring folk cultures will be analyzed. Contemporary culture change will be analyzed in a temporal perspective.

**ANT 4432 CULTURE AND PERSONALITY (3)**
PR: ANT 3410 or CI. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

**ANT 4442 URBAN ANTHROPOLOGY (3)**
PR: ANT 3410 or CI. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

**ANT 4462 MEDICAL ANTHROPOLOGY (3)**
PR: ANT 3410 or CI. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.

**ANT 4495 RESEARCH METHODS IN CULTURAL ANTHROPOLOGY (3)**
PR: CI. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formulation, data collection techniques, elicitation of information, data analysis and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

**ANT 4542 CULTURE AND PERSONALITY (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 THE PHYSICAL ANTHROPOLOGY OF LIVING HUMANS (3)**
PR: ANT 3511 or CI. An overview of evolution and biological variation of human races. Anatomical, morphological and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.

**ANT 4586 THE PHYSICAL ANTHROPOLOGY OF PREHISTORIC HUMANS (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. Bio-sociocultural patterns and cultures of the past are also covered.

**ANT 4590 LANGUAGE AND CULTURE (3)**
PR: ANT 3610 or CI. Examining the relationships between language and culture in crosscultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

**ANT 4705 APPLIED ANTHROPOLOGY (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 4723 ANTHROPOLOGY AND EDUCATION (3)**
PR: ANT 3410 or CI. Examines the processes through which human beings learn to become functioning members of a society. Crosscultural analysis of patterns of education based on crosscultural data. Discussion of problems of minority education and the teaching of anthropology in primary/secondary schools.

**ANT 4750 ETHNOGRAPHY OF COMMUNICATION (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: ANT 3410 or 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 and articulating special interests to be explored. May be repeated as topics vary.

**ANT 4935 SENIOR SEMINAR IN ANTHROPOLOGY (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.

**MUH 4521 FOLK MUSIC (3)**
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.

**GRADUATE COURSES**

**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: CI. Topics to be chosen by students and instructor.

**ANT 6186 SEMINAR IN ARCHAEOLOGY (2)**
PR: Graduate standing. One of four core courses required of all...
students. A critical survey of archaeology emphasizing contributions to applied anthropology. Open to non-majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ANT 6196 METHODS IN PUBLIC ARCHAEOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Field techniques, methods of collection, analysis, and interpretation of data. May be repeated up to 6 credit hours as topics vary. Open to non-majors. Lec.-lab, field trips.</td>
</tr>
<tr>
<td>ANT 6197 SELECTED TOPICS IN PUBLIC ARCHAEOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Current topical issues in public archaeology. May be repeated up to 6 credit hours as topics vary. Open to non-majors.</td>
</tr>
<tr>
<td>ANT 6198 REGIONAL PROBLEMS IN PUBLIC ARCHAEOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Contemporary problems in public archaeology in the context of a specific region. May be repeated up to 6 credit hours as topics vary. Open to non-majors.</td>
</tr>
<tr>
<td>ANT 6447 SELECTED TOPICS IN URBAN ANTHROPOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Current topical issues in urban anthropology. May be repeated up to 6 credit hours as topics vary. Open to non-majors.</td>
</tr>
<tr>
<td>ANT 6448 REGIONAL PROBLEMS IN URBAN ANTHROPOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Contemporary problems in urban anthropology in the context of a specific region. May be repeated up to 6 credit hours as topics vary. Open to non-majors.</td>
</tr>
<tr>
<td>ANT 6459 SELECTED TOPICS IN MEDICAL ANTHROPOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Current topical issues in medical anthropology. May be repeated up to 6 credit hours as topics vary. Open to non-majors.</td>
</tr>
<tr>
<td>ANT 6460 REGIONAL PROBLEMS IN MEDICAL ANTHROPOLOGY</td>
<td>3</td>
<td>Three of the core courses, or CI. Contemporary problems in medical anthropology in the context of a specific region. May be repeated up to 6 credit hours as topics vary. Open to non-majors.</td>
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</table>

**COMMUNICOLOGY**

**Chairperson:** S. W. Kinde; **Professors:** S. W. Kinde, L. H. Ricker, S. I.

Ritterman, D. C. Shepherd; **Associate Professors:** J. B. Crittenden, A. M. Guilford, J. F. Scheuerele, W. Strange; **Instructors:** R. L. Carlson, S. R. Halstead, C. F. Kuffel; **Lecturers:** E. A. Kasan; **Visiting Faculty Professor:** S. O. Richardson; **Assistant Professors:** L. H. Leeper, E. O. Kaplon; **Instructors:** B. L. Coulston, D. A. Risley, B. J. Snyder; **Visiting Faculty:** Professors: M. Abdonney, F. X. Frueh, E. T. Gray, M. Habal; **Other Faculty:** S. Daly, K. K. Hollahan.

**UNDERGRADUATE COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 2001 SURVEY OF COMMUNICATION DISORDERS</td>
<td>2</td>
<td>A general survey course concerning the nature and prevention of disorders of communication.</td>
</tr>
<tr>
<td>SPA 3020 INTRODUCTION TO COMMUNICATION DISORDERS</td>
<td>4</td>
<td>The scope of speech pathology as a profession and a field of study. An introduction to speech and language disorders (articulation, stuttering, voice, aphasia, etc.): etiologies, major treatment approaches, and research findings.</td>
</tr>
<tr>
<td>SPA 3080 INTRODUCTION TO RESEARCH PROCEDURES IN COMMUNICATION DISORDERS</td>
<td>4</td>
<td>Perspective on research in speech pathology and audiology. Introduction to experimental design considerations as they apply to research in speech and hearing laboratory and clinical settings. Analysis of basic hypothesis testing.</td>
</tr>
<tr>
<td>SPA 3101 ANATOMY OF THE SPEECH AND HEARING MECHANISM</td>
<td>6</td>
<td>The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.</td>
</tr>
<tr>
<td>SPA 3110 INTRODUCTION TO AUDITORY SCIENCE</td>
<td>4</td>
<td>The scope of audiology as a profession and field of study. An introduction to the study of hearing impairments: classifications, etiologies, major treatment approaches, and research findings.</td>
</tr>
<tr>
<td>SPA 3117 INTRODUCTION TO SPEECH SCIENCE</td>
<td>4</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 4004 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS</td>
<td>3</td>
<td>A concentrated study 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.</td>
</tr>
<tr>
<td>SPA 4010 STRUCTURE OF SIGN LANGUAGE</td>
<td>3</td>
<td>A concentrated study 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.</td>
</tr>
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**SPR 4050 INTRODUCTION TO PRACTICUM**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>(1-12)</td>
<td>Observation and participation in speech pathology and audiology practicum in the University clinical laboratory.</td>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SPA 4250 COMMUNICATION DISORDERS II: VOICE/ ARTICULATION/STUTTERING</td>
<td>2</td>
<td>SPA 4255. An introduction to communication disorders associated with neurological dysfunction: identification, etiologies and major treatment approaches. An overview of legal, ethical and professional roles and responsibilities.</td>
</tr>
<tr>
<td>SPA 4255 COMMUNICATION DISORDERS II: CEREBRAL PALSY/CLEFT PALATE/APHASIA</td>
<td>2</td>
<td>SPA 4255. An introduction to communication disorders associated with neurological dysfunction: identification, etiologies and major treatment approaches. An overview of legal, ethical and professional roles and responsibilities.</td>
</tr>
<tr>
<td>SPA 4333 INTRODUCTION TO AMERICAN SIGN LANGUAGE</td>
<td>1</td>
<td>Introduction to the elements of body language, gesture, and facial expression as related to manual communication. Also discusses aspects of physical contact as a communication tool. Open to interested non-majors as well as Communication majors.</td>
</tr>
<tr>
<td>SPA 4334 FUNDAMENTALS OF FINGERSPELLING</td>
<td>2</td>
<td>SPA 4334. An introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to</td>
</tr>
<tr>
<td>SPA 4336 BASIC AMERICAN SIGN LANGUAGE</td>
<td>2</td>
<td>SPA 4336. An introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to</td>
</tr>
</tbody>
</table>
various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour laboratory course (SPA 5380) to be taken concurrently. Open to all majors.

SPA 4532 PERIPHERAL AND CENTRAL AUDITORY TESTS (4)
PR: CI. 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 5380 AMERICAN SIGN LANGUAGE LABORATORY (1)
A laboratory course designed to offer students added practice with the material being presented in the manual communications coursework through video and audio tapes. To be taken concurrently with each level of manual communication.

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

SPA 5388 ADVANCED AMERICAN SIGN LANGUAGE (4)
PR: SPA 5384 and CI. 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. One hour laboratory course (SPA 5380) is to be taken concurrently. Open to all majors.

SPA 5402 COMMUNICATION DISORDERS: LANGUAGE (3)
PR: CI. 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 5550 METHODS FOR ORAL COMMUNICATION DISORDERS (4)
PR: CI. An in-depth analysis of classic and contemporary methods employed in the management of communicatively impaired individuals.

SPA 5552 EVALUATION OF ORAL COMMUNICATION DISORDERS (4)
PR: Admittance to the Program or CI. The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

SPA 5557 SPEECH PATHOLOGY AND AUDIOLOGY PRACTICUM (1-8)
PR: CI. Participation in speech pathology and audiology practicum in the University clinical laboratory and selected field settings.

SPA 5600 MANAGEMENT OF COMMUNICATION DISORDERS (3)
PR: CI. The planning of programs for individuals with speech, language, and hearing impairments. Includes administration of programs in public schools, clinics, and private practice.

SPA 5930 SELECTED TOPICS (3)
PR: CI. A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member. May be repeated three times.

SPA 6106 NEUROLOGICAL CORRELATES OF LANGUAGE (3)
PR: CC or delegate. Review of the anatomy and physiology of the nervous system. Discuss neurological correlates or receptive and expressive language in verbal and non-verbal transmission and feedback.

SPA 6231 CEREBRAL PALSY (3)
PR: CI. A study of the medical, physical, occupational, speech, language, and hearing problems of the cerebral palsied. Therapy techniques are reviewed and evaluated.

SPA 6245 CLEFT PALATE (3)
PR: CI. An in-depth study of speech, language and hearing problems associated with cleft lip and cleft palate. Consideration is given to a multidisciplinary approach to therapy and rehabilitation.

SPA 6305 CHILD AUDIOLOGY (3)

SPA 6307 SPECIAL AUDITORY TESTS (4)
PR: SPA 5312 or CI. History, development, rationale and techniques for administering hearing tests to determine site of lesion, including those requiring special instrumentation.

SPA 6322 TECHNIQUES OF AUDITORY TRAINING AND SPEECHREADING (4)
PR: CI. A careful analysis of the visual and auditory sense modalities as input systems used to facilitate communication in the hearing impaired. Methods employed in the habilitation of both modalities will be presented.

SPA 6326 PROCEDURES AND MATERIALS FOR THE HEARING IMPAIRED (3)
PR: Major in Aural (Re)Habilitation or CI. Curricular adaptation, methods and techniques, organization necessary for teaching the hearing impaired.

SPA 6329 READING FOR THE HEARING IMPAIRED (2)
PR: RED 4310, RED 4515, major in Aural (Re)Habilitation and CI. Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods.

SPA 6332 SPEECH FOR THE HEARING IMPAIRED (4)
PR: SPA 3020, SPA 3110, SPA 4363. Application and evaluation of techniques for teaching symbolic functioning to children with hearing impairments. Consideration of developmental and remedial aspects of reading.

SPA 6335 ADVANCED MANUAL COMMUNICATION AND BASIC INTERPRETING (3)
PR: SPA 4333 or equivalent and CI. A continuation of basic course which expands students signing skills and presents an exposition of sign systems aimed at signing in an English language context.

SPA 6345 HEARING AIDS (3)
Interpretation of hearing test data as it relates to the selection of the hearing aids and the planning of rehabilitation programs for the hearing impaired.

SPA 6354 HEARING CONSERVATION (4)
An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises.
SPA 6401 PEDIATRIC LANGUAGE DISORDERS (3)
PR: CI. An examination of the pre-verbal and language skills of the infant and preschool child, and the Speech Pathologist's role in the diagnosis, treatment and parent-training for these children.

SPA 6410 APHASIA (3)
PR: CI. A consideration of the neurological and psychological aspects of aphasia as they relate to communication disorders. Specific language therapy approaches are discussed and evaluated.

SPA 6423 LANGUAGE FOR THE HEARING IMPAIRED (4)
PR: SPA 3020, SPA 3110, SPA 4363 or CI. Techniques and materials of teaching language to children with auditory disorders. Evaluation and analysis of contemporary methods.

SPA 6505 PRACTICUM (1-8)
PR: CI. Participation in speech pathology and audiology practicum in the University clinical laboratory and selected field settings.

SPA 6553 ADVANCED DIFFERENTIAL DIAGNOSIS AND TREATMENT PLANNING (3)
PR: CI. The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of more advanced evaluation techniques not covered in SPA 5552.

SPA 6825 RESEARCH PROCEDURES IN SPEECH PATHOLOGY AND AUDIOLOGY (4)
PR: CI. Advanced research and experimental design techniques employed in clinical and laboratory settings in speech pathology and audiology.

SPA 6906 INDEPENDENT STUDY (var.)
Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

SPA 6910 DIRECTED RESEARCH (var.)
PR: G. Master's level. Repeatable. (S/U only.)

SPA 6930 SELECTED TOPICS (3)
PR: CI. A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member. May be repeated three times.

SPA 6971 TUTORIAL: MASTER'S (var.)
Repeatable. (S/U only.)

SPA 7931 SEMINAR IN COMMUNICATION DISORDERS (1-4)
PR: CI. Seminars addressing the central research and clinical issues related to the diagnosis and treatment of communication disorders.

CRIMINAL JUSTICE


UNDERGRADUATE COURSES

CCJ 3000 CRIME AND JUSTICE IN AMERICA (4)
A non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with criminal offenders and victims of crime. May be taken by both majors and non-majors for credit.

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

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

CCJ 3620 THEORIES AND TYPOLOGIES OF CRIMINAL BEHAVIOR (3)
PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration of patterns of offender behavior and principal theoretical approaches to the explanation of crime and criminals.

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

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

CCJ 4120 CRIMINAL JUSTICE ADMINISTRATION (3)
This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4130 THE LAW ENFORCEMENT OFFICER AND THE COMMUNITY (3)
PR: Junior Standing plus CCJ 3110 or CI. Examines the area of human relations especially as it applies to police functions within the community. Topics of justice and discrimination are emphasized.

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

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

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

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

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

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

CCJ 4700 RESEARCH METHODS IN CRIMINAL JUSTICE II (3)
PR: Junior standing plus CCJ 3701 or CI. Introduction to research methodology and the evaluation of research. This course may not be taken for credit if the student has already successfully completed STA 3122, GEB 2111, or STA 3023.

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

*CCJ 4900 DIRECTED READINGS (1-3)
PR: CI. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program. No more than five hours of CCJ 4900. 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: CI. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice. No more than five hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number for 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) The consideration will be given to Criminal Justice majors, and (d) Individual faculty members may add additional requirements at their discretion.

CCJ 4934 SEMINAR IN CRIMINAL JUSTICE (3)
PR: Senior standing and CI. This variable topic seminar will 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

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. Each three-hour block of credit will require a minimum of ten hours of work per week within the host agency in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminal Justice for the number of hours required. (S/U only.)

*Courses available only to students currently enrolled.

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.

GRADUATE COURSES

CCJ 6205 THE JUDICIAL PROCESS

(3)
PR: CCJ 6285 or Cl. Designed to equip the student with an understanding of the evolution and current features which characterize the structure and operations of county, state, and federal courts.

CCJ 6285 LAW AND CRIMINAL JUSTICE

(3)
An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provisions, statutes and case law.

CCJ 6305 THEORY, PRACTICE, AND RESEARCH IN CORRECTIONS

(3)
Examination of the complex interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation.

CCJ 6345 SUPERVISION AND TREATMENT STRATEGIES

(3)
Designed to acquaint the beginning graduate student with general conditions, skills and techniques required to provide effective correctional treatment or intervention with adult and juvenile offenders.

CCJ 6405 THEORY, PRACTICE, AND RESEARCH IN LAW ENFORCEMENT

(3)
This issues-oriented course explores the relationships among theory, practice, and research as these are reflected in the problems and challenges which confront law enforcement.

CCJ 6405 LAW ENFORCEMENT ADMINISTRATION

(3)
This course is designed to examine the major elements of law enforcement administration and management. Special attention is given to the organizational theory and scientific management of law enforcement agencies.

CCJ 6455 CORRECTIONAL ORGANIZATION AND ADMINISTRATION

(3)
This course is intended to provide a comprehensive overview of the state of the art of correctional organization and administration. This course blends together the most current information from the managerial and behavioral sciences.

CCJ 6466 RESOURCE DEVELOPMENT AND ACQUISITION

(3)
Provides introduction to practical experience in securing financial assistance for criminal justice agencies. Stress is placed on proposal development, planning, analysis of criteria, and feasibility of funding for specific projects.

CCJ 6475 SYSTEMS ANALYSIS IN CRIMINAL JUSTICE

(3)
PR: CCJ 6709. Time is spent on the design and analysis of both existing and student created systems, with an emphasis on the role of system analysis as it applies to management information systems, and computer-based systems.

CCJ 6605 THEORETICAL APPROACHES TO CRIMINAL BEHAVIOR

(3)
An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior.

CCJ 6705 SYSTEMATIC INQUIRY IN CRIMINAL JUSTICE

(3)
Introduces the basic concepts, terminology, techniques, approaches, and issues in criminal justice research, with emphasis on relationships among theory and research, legal bibliography, and ethical issues involved in systematic inquiry.

CCJ 6709 RESEARCH AND EVALUATION IN CRIMINAL JUSTICE I

(3)
PR: CCJ 6705. Introduction to empirical research techniques and principles, statistics, data management, and management information procedures.

CCJ 6716 RESEARCH AND EVALUATION IN CRIMINAL JUSTICE II

(3)
PR: CCJ 6709. Principles and methods of program evaluation and evaluative research in criminal justice. Focuses on application of research strategies under constraints of politics, deadlines, financial limits, and other field circumstances.

CCJ 6725 CORRECTIONAL PLANNING

(3)
Provides an in-depth examination of urban correctional planning processes, with emphasis on personnel development, budgeting, and facility plans and their implementation.

CCJ 6726 LAW ENFORCEMENT PLANNING

(3)
This course will examine the nature of law enforcement planning and will focus on techniques and skills required to forecast future needs of police agencies in rapidly expanding metropolitan areas.

CCJ 6910 DIRECTED RESEARCH

(1-3)
PR: GR. Master’s level. Repeatable. A maximum of 3 hours may be counted toward the minimum number of hours required by the department for the Master’s degree. (S/U only.)

CCJ 6920 PRO SEMINAR IN CRIMINAL JUSTICE

(1-2)
One hour is required for all students. Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward development of thesis topics. Should be taken during first semester in program.

CCJ 6935 TOPICS IN CRIMINAL JUSTICE

(3)
PR: Graduate standing in Department of Criminal Justice. This course provides opportunity for analysis and discussion of topics of major concern in criminal justice that are not covered in regular courses. May be repeated with different subject matter.

CCJ 6971 THESIS: MASTER’S

(6)
PR: CCJ 6705. Repeatable. A maximum of six hours may be counted toward the minimum number of hours required for the Master’s degree. (S/U only.)

GEOGRAPHY


UNDERGRADUATE COURSES

GEOGRAPHY

GEO 3000 WORLD REGIONAL GEOGRAPHY

Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, and physical diversity.

GEO 3002 GENERAL GEOGRAPHY

Selected topics in regional and topical geography offered as survey courses. Open to all students.

GEO 3194 REGIONAL GEOGRAPHY

Variable title course to systematically study and compare special regions identified by the instructor.

GEO 3202 GEOGRAPHY OF ANGLO-AMERICA

GEO 3260 GEOGRAPHY OF THE SOUTHEAST

GEO 3270 GEOGRAPHY OF FLORIDA

GEO 3300 GEOGRAPHY OF MIDDLE AMERICA

GEO 3360 GEOGRAPHY OF THE GULF OF MEXICO

GEO 3400 GEOGRAPHY OF LATIN AMERICA

GEO 3410 GEOGRAPHY OF SOUTH AMERICA

GEO 3500 GEOGRAPHY OF EUROPE

GEO 3584 GEOGRAPHY OF THE USSR

GEO 3600 GEOGRAPHY OF AFRICA

GEO 3703 GEOGRAPHY OF ASIA

GEO 3930 GEOGRAPHY OF CURRENT EVENTS

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 3070 SYSTEMATIC GEOGRAPHY (4)
PR: GEO 3013. Continuation of GEO 3013; soil, water, rocks, minerals, and landforms.

GEO 3440 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 3370. Analysis and synthesis of various types of maps and map projections.

GEO 4100C CARTOGRAPHY (4)
PR: GEO 3370. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)
PR: GEO 3370. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)
PR: GEO 3370. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photographic are also considered.

GEO 4164C QUANTITATIVE METHODS (4)
PR: GEO 3370. Statistical analysis in geographic research.

GEO 4200C PHYSICAL GEOGRAPHY (4)
PR: GEO 3370. Intensive study of a topic selected from physical geography.

GEO 4210 PHYSIOGRAPHY (4)

GEO 4280C HYDROLOGY (4)
PR: GEO 3370. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 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 4370 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 on its various components. May also include a survey of regional water problems.

GEO 4420 CULTURAL GEOGRAPHY (4)
PR: GEO 3370. 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 4470 POLITICAL GEOGRAPHY (4)
PR: GEO 3370. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4500 ECONOMIC GEOGRAPHY (4)
PR: GEO 3370. 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 3370. 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 3370. Interrelationships between freight and passenger transportation and land use, in terms of site, traffic generation, and circulation.

GEO 4890 COASTAL ZONE MANAGEMENT (4)
PR: GEO 3370. Physical, cultural, and environmental elements of the coastal zone; impact of economic activities; recreation and conservation.

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.

MGT 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.

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

URP 4628 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.

GRADUATE COURSES

GEA 6195 SEMINAR IN ADVANCED REGIONAL GEOGRAPHY (3)
PR: Graduate standing in geography. Analytic study of a selected region of the world. May be repeated once for credit, but region may not be repeated.

GEO 5065 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.

GEO 6119 SEMINAR IN ADVANCED TECHNIQUES & METHODOLOGY (3)
PR: Graduate standing in geography. Analytic study of a technique or investigation into an aspect of methodology. May be repeated once for credit, but topic may not be repeated.

GEO 6209C SEMINAR IN ADVANCE PHYSICAL GEOGRAPHY (3)
PR: Graduate standing in geography. Analytic study of a problem selected from one or more aspects of the atmosphere, biosphere, hydrosphere, or lithosphere. May be repeated once for credit, but topic may not be repeated.

GEO 6428 SEMINAR IN ADVANCED CULTURAL GEOGRAPHY (3)
PR: Graduate standing in geography. Analytic study of a problem selected from one or more aspects of the cultural landscape (urban, political, economic, population, settlement). May be repeated once for credit.

GEO 6908 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

GEO 6918 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

GEO 6919 GRADUATE RESEARCH METHODS (1-4)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

GEO 6945 ACADEMIC METHODOLOGY (3)
PR: Graduate standing in geography. Current trends in college geography, with the emphasis on the junior college program. Not available to thesis students.

GEO 6947 DIRECTED TEACHING (1-6)
GEO 6948 GRADUATE INSTRUCTION METHODS (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)
GERONTOLOGY


UNDERGRADUATE COURSES

GEY 3000 INTRODUCTION TO GERONTOLOGY (3)
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

GEY 3200 APPLIED GERONTOLOGY (3)
PR: Cl. This course is designed to provide an integration of empirical data in the study of aging with practical experience in working with older people. Students will spend time working with older people in an agency or institutional setting.

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

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

GEY 4900 DIRECTED READINGS (1-2)
PR: Cl. A reading program with topics in gerontology conducted under the supervision of a faculty member.

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

GRADUATE COURSES

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

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

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

GEY 5645 MID-LIFE DEVELOPMENT (4)
PR: Cl. The life space of middle age is explored through an examination of the physical, social, and psychological forces which influence this period of the human life span.

GEY 6325 SOCIAL POLICY AND PLANNING FOR GERONTOLOGISTS (3)
PR: Cl. This course is designed to provide an empirical and analytical base for understanding the major issues and trends involved in existing and proposed programs and services in the field of aging at local, state, and federal levels.

GEY 6350 WORKING WITH THE ELDERLY (3)
PR: Cl. An introduction to personality theory and concepts of adjustment with an overview of counseling techniques and rehabilitative efforts with the aged.

GEY 6450 GERONTOLOGICAL RESEARCH AND PLANNING I (3)
PR: Cl. Social research and planning methods in the field of gerontology. Directed to the consumers of research findings—persons whose positions call for the ability to interpret, evaluate, and apply the findings produced by others.

GEY 6455 GERONTOLOGICAL RESEARCH AND PLANNING II (3)
PR: Cl. As a continuation of GEY 6450, this course will center on quantitative methodology as it applies to the field of gerontology. It will be aimed at preparing the student for more advanced data analysis.

GEY 6500 INSTITUTIONAL ADMINISTRATION (3)
PR: Cl. This course deals with the management problems and practices in the administration of institutions in the field of aging. Consideration is given to federal and state legislation, the management of people, and fiscal management.

GEY 6600 PHYSICAL AND PSYCHOLOGICAL ASPECTS OF AGING (3)
Study of normal functioning of major organ systems of the body and basic psychological processes as related to the aging process, changes in functioning in perceptual, motor and cognitive areas from the developmental perspective.

GEY 6901 DIRECTED READINGS (1-4)
PR: Cl. A reading program of selected topics under the supervision of a faculty member. May be repeated up to 4 semester hours. (S/U only.)

GEY 6910 DIRECTED RESEARCH (1-4)
PR: Cl. Master's level. May be repeated up to 4 credit hours. (S/U only.)

GEY 6930, 6932, 6931, 6933 SEMINAR IN SOCIAL GERONTOLOGY (1,1,1,1)
PR: Cl. Designed to give the graduate student an opportunity to integrate concepts within the field of gerontology, and relate these to other fields of study. Guest lecturers from a variety of disciplines participate in the seminar. (S/U only.)

GEY 6934 SPECIAL TOPICS IN GERONTOLOGY (2)
PR: Cl. Courses on topics such as pre-retirement, mental health, services organization and senior center administration. May be repeated for credit with different subject matter up to 6 credit hours.

GEY 6940 FIELD PLACEMENT (6)
PR: Cl. Internship in an agency or setting. An assignment to an agency or organization engaged in planning or administering programs for older people or in providing direct services to older people. (S/U only.)

GEY 6971 THESIS: MASTER'S (var.)
PR: Cl. Thesis: Master's. (var.) Repeatable. (S/U only.)

HISTORY


UNDERGRADUATE COURSES

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

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

AMH 2010, 2020 AMERICAN HISTORY I, II (3,3)
A history of the United States with attention given to relevant developments in the Western Hemisphere. AMH 2010: European origins to 1877; AMH 2020: 1877 to present.

AMH 3110 AMERICAN COLONIAL HISTORY TO 1750 (4)
A study of the evolution of American society from the Age of Recon-
naissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.

AMH 3130 THE AMERICAN REVOLUTIONARY ERA (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 THE AGE OF THOMAS 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 THE AGE OF JACKSON (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 THE CIVIL WAR AND RECONSTRUCTION (4)
An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).

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

AMH 3252 THE UNITED STATES SINCE 1929 (4)
The United States from the Great Depression to the present. Covering political, social and diplomatic developments, examines the New Deal, World War II, the Cold War, Viet Nam, civil rights, feminism and Watergate.

AMH 3402 THE OLD SOUTH (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 Southern frontier, the development of sectional consciousness, and the coming of the Civil War.

AMH 3403 THE SOUTH SINCE 1865 (4)
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demography and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3420 FLORIDA HISTORY (4)
A history of Florida from Spanish discovery to the present. Examines Florida as an area of European conflict, the emergence of Florida within its regional setting, acquisition by the U.S. and subsequent political, economic and cultural growth.

AMH 3428 TAMPA HISTORY (3)
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 3460 AMERICAN URBAN HISTORY (4)
A study of American cities from the colonial period to the present. Through an examination of economic, political, social and physical developments, the course traces both the opportunities and problems presented by urban life.

AMH 3500 AMERICAN LABOR HISTORY (4)
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

AMH 3510 U.S. DIPLOMATIC HISTORY TO 1898 (3)
The development of American Foreign Relations in the Agricultural era.

AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY (3)
A history of American Foreign Relations in the Industrial era.

AMH 3530 IMMIGRATION HISTORY (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 UNITED STATES MILITARY HISTORY (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 WAR AND AMERICAN 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 3800 HISTORY OF CANADA (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 regionalism.

ASH 3403 ANCIENT AND 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 Manchu Dynasty (17th century).

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

ASH 3501 HISTORY OF INDIA (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 British periods as well as the modern independent sub-continent.

EUH 2101, 2102 ANCIENT HISTORY I, II (3,3)
An introductory survey of ancient history. EUH 2101 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 2102 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.

EUH 2121, 2122 MEDIEVAL HISTORY I, II (3,3)
A thematic survey of the Middle Ages. EUH 2121 deals with the nascent Christian civilization of European, circa 300-1050 A.D.; EUH 2122 treats the mature medieval civilization of Europe, circa 1050-1500.

EUH 2200, 2201 MODERN EUROPEAN HISTORY I, II (3,3)
A thematic survey of Europe in the modern age. EUH 2200 treats the period from the Renaissance to the French Revolution; EUH 2201, from the French Revolution to the present.

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

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

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

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

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

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

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

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

EUH 3300 BYZANTINE HISTORY (4)
A survey of the Byzantine (Eastern Roman) Empire from its 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.
EUH 3185 VIKING HISTORY (4) 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.

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

EUH 3401 CLASSICAL GREECE (4) A study of ancient Greece focusing on the brilliant period following the Persian wars, but embracing as well the formative Bronze, Middle, and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedonia in 338 B.C.

EUH 3402 HELLENISTIC GREECE (4) A study focusing on the career of Alexander the Great and the great Hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

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

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

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

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

EUH 3501 BRITISH HISTORY TO 1688 (4) A study of major developments in British history from the 15th century to 1688.

EUH 3502 BRITISH HISTORY 1688 TO PRESENT (4) A study of the major themes of British history since the Glorious Revolution including social, political, and economic developments leading to the creation of the modern democratic welfare state.

EUH 3530 BRITISH EMPIRE AND COMMONWEALTH (4) A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational Common­wealth. Included are examinations of theory and myth of colonialism and imperial architecture.

EUH 3571 RUSSIAN HISTORY TO 1865 (4) A survey of the social, political, 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.

EUH 3572 RUSSIAN HISTORY 1865 TO PRESENT (4) 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.

HIS 3461 SCIENCE AND CIVILIZATION (4) 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.

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

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

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

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

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

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

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

LAH 3022 MODERN LATIN AMERICA (4) A study of the emergence of the Latin American states. The course will examine developments in Latin American during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 HISTORY OF MEXICO (4) Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 HISTORY OF THE CARIBBEAN (4) A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neocolonial relationships.

LAH 3480 HISTORY OF CUBA (4) Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.

LAH 3600 HISTORY OF BRAZIL (4) Brazil from the 16th century to the present. Emphasis on the Portuguese conquest and settlement, emergence of the Empire and republic, the 20th century quest for modernity and leadership in Latin America.

WOH 3270 REVOLUTIONS IN THE MODERN WORLD (4) A comparative study of the major revolutions in world history. Emphasis is placed on the testing of various theories and models of the revolutionary process as well as conceptual issues of imperialism.

WST 3210 WOMEN IN WESTERN CIVILIZATION I (4) Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in Women's Studies.)

WST 3220 WOMEN IN WESTERN CIVILIZATION II (4) Survey of European women from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in Women's Studies.)

WST 4309 THE FEMALE EXPERIENCE IN AMERICA (4) PR: WST 2010, or WST 2011, or CI. The female experience in America, in historical context, viewed through the writings of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in Women's Studies.)

WST 4310 FEMINISM IN AMERICA (4) PR: WST 2010, or WST 2011, or CI. Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in Women's Studies.)

GRADUATE COURSES

HIS 6085 INTERNSHIP IN HISTORY (1-4) PR: CI. Supervised field placement in a local agency involved in historical planning and preservation. Students will receive practical
experience in the fields of archival management, architectural preservation, and state and local research. (S/U only.)

HIS 6112 ANALYSIS OF HISTORIC KNOWLEDGE (4)
PR: Graduate standing. A study of History as a form of knowledge with emphasis on explanatory models and the relationships of social science theory to the problems of historical analysis.

HIS 6904 DIRECTED RESEARCH (var.)
PR: GR. Master’s level. Repeatable. (S/U only.)

HIS 6908 INDEPENDENT STUDY (var.)
Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

HIS 6920 COLLOQUIUM IN HISTORY (4)
A readings and discussion course organized around an in-depth examination of selected topics within the fields. Emphasis of the course is on the review of the historiographical, methodological, and interpretative advances as they affect the topics under study. Repeatable as topics vary.

HIS 6939 SEMINAR IN HISTORY (4)
Research in selected topics within the fields selected by the instructor. Repeatable as topics vary.

HIS 6971 THESIS: MASTER’S (var.)
Repeatable. (S/U only.)

HUMAN SERVICES

Coordinator: T.A. Rich; Faculty: J.L. Garcia, A.S. Gilmore, D.R. Kenerson, J.J. Kosberg, W.F. Mangum, T.J. Northcutt, Jr., S.V. Saxon; Visiting Faculty: Professor: W.Vasey

UNDERGRADUATE COURSES

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 3502 (Formerly HUS 3300) SOCIAL POLICY IN THE UNITED STATES (3)
PR: HUS 3001 or CI. Historical development of social policy in the United States. The impact of industrialization and urbanization on the individual and family. The changing roles of family, community, state, nation and current issues.

HUS 4020 THE LIFE CYCLE (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 4100 (Formerly HUS 4100) 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 program in modern society.

HUS 5505 MINORITY AGING (3)
This course treats the general issues, concerns and problems relevant to researchers and practitioners in the field of minority aging. Available to both majors and non-majors.

INTERNATIONAL STUDIES

Director: M.T. Orr; Professors: C.W. Arnade, H. W. Nelsen, F.J. Ohaegbulem, M.T. Orr; Professor Emeritus: R.A. Warner; Associate Professors: A. Hechiche, S.M. Stoudinger; Assistant Professor: M.M. Amen, D. Slider; Assistant Professor Emeritus: J.W. Palm.

UNDERGRADUATE COURSES

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

AFS 3930 AFRICA (3)

ASN 3000 ASIA (3)

ASN 3030 THE MIDDLE EAST (3)

EUS 3000 EUROPE (3)

LAS 3001 LATIN AMERICA (3)

AFS 4150 AFRICA AND THE UNITED STATES (3)
An examination of the historical and current political, economic, and cultural relations between the United States and Africa. (Also offered under African and Afro-American Studies.)

ASN 3012 JAPAN TODAY (3)
An introduction to modern Japan and its world role, drawing upon insights provided by the social and behavioral sciences. Emphasis is placed upon Japan's foreign relations.

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

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

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

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

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

INR 3503 THE UNITED NATIONS AND PEACE (3)
Study and analysis of the continuing development of the United Nations, using current major issues to understand its role as a harmonizing forum for conflicting political systems and ideologies.

INR 4083 READINGS SEMINAR IN SINO-SOVIET RELATIONS (3)
A readings seminar on the origin, development, present status, and future possibilities of Sino-Soviet relations, focusing on the period since 1956, and broader international ramifications.

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

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

SSI 3128 ENERGY AND FOREIGN POLICY (3)
A multidisciplinary study of the interrelationship of energy policy and foreign policy.

SSI 3221 AMERICA'S ROLE IN THE WORLD (3)
A multidisciplinary study of America's role in world affairs, emphasizing current problems and issues in the formulation and implementation of foreign policy.

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

Director: D.K. Lupton

UNDERGRADUATE COURSES

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 4 credit hours.

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

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

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

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

POLITICAL SCIENCE


UNDERGRADUATE COURSES

CPO 3002 INTRODUCTION TO COMPARATIVE POLITICS (4)
Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS (4)
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 (4)
Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 12 credit hours as topics vary.

INR 3002 INTRODUCTION TO INTERNATIONAL RELATIONS (4)
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

INR 3102 AMERICAN FOREIGN POLICY (4)
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

INR 4035 INTERNATIONAL POLITICAL ECONOMY (4)
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4334 DEFENSE POLICY (4)
Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW (4)
Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.

INR 4502 INTERNATIONAL ORGANIZATIONS (4)
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.

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION (4)
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 (4)
Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

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, the social and political influences that shape them, and the dynamics of their administrative processes.

POS 3142 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (4)
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 (4)
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 POLITICS (4)
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 FLORIDA POLITICS AND GOVERNMENT (4)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns. Open to majors and non-majors.

POS 3273 PRACTICAL POLITICS (4)
PR: POS 2041 or POS 3453 or Cl. Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.

POS 3283 JUDICIAL PROCESSES AND POLITICS (4)
The organization, development, and mechanical functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 POLITICAL PARTIES AND INTEREST GROUPS (4)
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 INTRODUCTION TO LAW AND POLITICS (4)
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.
POS 3713 EMPIRICAL POLITICAL ANALYSIS (4)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

POS 4165 COMMUNITY LEADERS AND POLITICS (4)
Analysis of the roles and powers of mayors, city managers, council members, and interest and ethnic groups; distribution of community power.

POS 4204 POLITICAL BEHAVIOR, PUBLIC OPINION, AND ELECTIONS (4)
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

POS 4413 THE AMERICAN PRESIDENCY (4)
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decisionmaking; White House staffing; limits on power.

POS 4424 THE AMERICAN CONGRESS (4)
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

POS 4614 CONSTITUTIONAL LAW I (4)
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

POS 4624 CONSTITUTIONAL LAW II (4)
PR: POS 2041. Analysis of Supreme court decisions and scholarly commentaries on the constitutional rights of individuals.

POS 4693 WOMEN AND THE LAW (4)
Issue concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and non-majors. (Also offered under Women's Studies.)

POS 4905 INDEPENDENT STUDY (1-4)
PR: 3.0 average in Political Science and CI. Specialized study determined by the student's needs and interests. (S/U only.)

POS 4910 INDIVIDUAL RESEARCH (1-6)
PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an original research paper.

POS 4936 SENIOR SEMINAR (4)
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

POS 4941 FIELD WORK (4)
PR: 3.0 average in Political Science and CI. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

POS 4970 HONOR THESIS (4)
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

POT 3003 INTRODUCTION TO POLITICAL THEORY (4)
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicist theory, analytical theory, and critical theory.

POT 3013 CLASSICAL POLITICAL THEORY (4)
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

POT 4054 MODERN POLITICAL THEORY (4)
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4064 CONTEMPORARY POLITICAL THOUGHT (4)
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

POT 4024 AMERICAN POLITICAL THOUGHT (4)
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding, and culminating in recent contributions and understanding contemporary political problems and solutions.

PUP 4534 HOUSING AND GOVERNMENT (4)
Analyses of political and administrative aspects of housing policy formation and delivery system; and the role of government in housing policy.

URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT (4)
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.

GRADUATE COURSES

CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS (4)
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.

CPO 6007 SEMINAR IN COMPARATIVE POLITICS (4)
Extensive examination of the major theories and approaches used in the study of comparative politics. Seminar format.

CPO 6036 POLITICS OF DEVELOPING AREAS (4)
Advanced study of ideologies, politics, political institutions, and the socio-economic conditions that influence them in developing nations. May be repeated as topics vary.

INR 5068 ISSUES IN INTERNATIONAL RELATIONS (4)
Explores specific topics and provides the student with an opportunity for indepth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.

INR 6007 SEMINAR IN INTERNATIONAL RELATIONS (4)
Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.

INR 6036 SEMINAR IN INTERNATIONAL POLITICAL ECONOMY (4)
PR: POS 5734 or CI. Advanced study of the development and politics of the international economic system focusing on theoretical and empirical analyses of cooperation and conflict in trade, aid, and investment relationships.

INR 6107 AMERICAN FOREIGN POLICY (4)
Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches.

POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (4)
Selected topics of study in American government. May be repeated for credit as topics vary.

POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (4)
Selected issues and topics in Urban Government and politics. May be repeated for credit as topics vary.

POT 5734 POLITICAL RESEARCH METHODS (4)
A survey of methods, problems, and issues in political research and analysis for the advanced student.

POT 5764 COMPUTER APPLICATIONS IN POLITICAL SCIENCE (4)
The student will be introduced to the use of modern computers as a research tool. Computer lab component.

POS 6045 SEMINAR IN AMERICAN GOVERNMENT AND POLITICS (4)
Advanced study of the institutions and processes of American national government and politics.

POS 6095 SEMINAR IN INTERGOVERNMENTAL RELATIONS (4)
Advanced study of the interaction between the various levels of government. Interlocal processes, state and federal grants-in-aid, and their use for policy coordination will also be emphasized.

POS 6127 ISSUES IN STATE GOVERNMENT AND POLITICS (4)
Advanced study of selected topics in institutions, processes, and behavior of American state governments and Florida government. May be repeated as topics vary.

POS 6157 SEMINAR IN URBAN GOVERNMENT AND POLITICS (4)
Advanced study of selected topics in institutions, processes, and behavior of American state governments and Florida government. May be repeated as topics vary.

POT 6247 ISSUES IN POLITICAL BEHAVIOR AND SOCIALIZATION (4)
Advanced study of selected topics in political behavior and socialization, including participation and activism, voting, public opinion, and leadership. May be repeated as topics vary.

POS 6415 THE AMERICAN PRESIDENCY (4)
Analysis of problems and powers of the modern Presidency with em-
PSYCHOLOGY


UNDERGRADUATE COURSES

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

CLP 4003 PSYCHOLOGY OF ADJUSTMENT
PR: PSY 3213 and CI. An examination of the evolution of behavior and the psychological processes of adaptation to the environment.

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

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

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

DEP 3103 CHILD PSYCHOLOGY
Developmental and psychological aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior. Not for major credit.

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

EXP 4004 PERCEPTION
PR: PSY 3213 or CI. 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
PR: PSY 3213 or CI. An examination of human and animal motivations from both physiological and psychological viewpoints.

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

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

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

INP 4004 INDUSTRIAL PSYCHOLOGY
PR: PSY 3213 or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

PSP 4013C PERSONALITY
PR: PSY 3213 or CI. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 4013C NEUROPSYCHOLOGY
PR: PSY 3213 or CI. 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
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
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. Two lectures, one discussion/lab.

PSY 3022 CONTEMPORARY PROBLEMS IN PSYCHOLOGY
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
PR: PSY 3013 or Cl. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab.

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

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

PSY 4913 DIRECTED STUDY
PR: Upper division 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 4931 SELECTED TOPICS: SEMINAR
PR: Upper division standing and Cl. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology. May be repeated with a maximum of six hours credit.

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

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

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

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

SOP 471C ENVIRONMENTAL PSYCHOLOGY
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.

GRADUATE COURSES

CLP 6166 PSYCHOPATHOLOGY
PR: Admission to graduate program in psychology or Cl. Exploration of current approaches to the understanding of pathologic behavior and implications for theories of personality. A survey of treatment methods is included. M.A. core course.

CLP 6438 PSYCHOLOGICAL ASSESSMENT
PR: Cl. Courses cover theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, neuropsych-diagnostic, and personality testing. May be repeated for credit with different subject matter.

CLP 6477 BEHAVIORAL DISORDERS OF CHILDREN
PR: Cl. Causative factors in behavior deviations common to children and adolescents. Thorougeh study of selected childhood mental disorders and a survey of ameliorative techniques for treating childhood behavior difficulties.

CLP 6537 TOPICS IN CLINICAL-COMMUNITY PSYCHOLOGY
PR: Cl. Courses on topics such as humanistic psychology, community psychology, and clinical neuropsychology. May be repeated for credit with different subject matter.

CLP 7188 PSYCHOTHERAPY AND BEHAVIOR CHANGE
PR: Cl. Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention. May be repeated for credit with different subject matter.

CLP 7379 GRADUATE SEMINAR IN CLINICAL-COMMUNITY PSYCHOLOGY
PR: Cl. Seminar on topics such as psychopathology, community psychology, clinical issues, personality, and developmental psychology. May be repeated for credit with different subject matter.

DEP 6058 DEVELOPMENTAL PSYCHOLOGY
PR: Admission to graduate program in psychology or Cl. Detailed study of the development of human behavior aimed toward an understanding of early contributions to later behaviors. Effects of early experience on later behavior.

EXP 6208 PERCEPTION
PR: Admission to graduate program in psychology or Cl. Current data and theory of perceptual processes. Consideration of physiological and psychological variables in perception, and applications of information theory and signal detection theory.

EXP 6307 MOTIVATION AND EMOTION
PR: Cl. A detailed examination of human motivation and emotion from both the physiological and psychological viewpoints.

EXP 6406 LEARNING
PR: Admission to graduate program in psychology or Cl. Habituation, sensitization, classical and instrumental conditioning, generalization, discrimination, trial and error learning, problem solving. M.A. core course.

EXP 6526 HUMAN MEMORY
PR: Admission to graduate program in psychology or Cl. Review of methods, findings, and theoretical interpretations associated with the study of acquisition and retention of information.

EXP 6608 COGNITIVE PSYCHOLOGY
PR: Admission to graduate program in Psychology or Cl. A survey of the research and theory dealing with higher mental processes. Core requirement for all graduate students in Psychology.

EXP 6930 TOPICS IN EXPERIMENTAL PSYCHOLOGY
PR: Cl. Courses on topics such as operant behavior, electro-physiological methods, psychophysics, and memory. May be repeated for credit with different subject matter.

EXP 7099 GRADUATE SEMINAR IN EXPERIMENTAL PSYCHOLOGY
PR: Cl. Seminars on topics such as learning, perception, physiological psychology, cognitive processes, and quantitative methods. May be repeated for credit with different subject matter.

INP 6056 INDUSTRIAL PSYCHOLOGY
PR: Admission to M.A. program in psychology or Cl. An introduction to the major areas of Industrial-Organizational Psychology including the topics of selection and placement, training, criterion development and performance appraisal, job satisfaction and motivation, and organizational theory and structure.

INP 6935 TOPICS IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY
PR: Cl. Courses on topics such as industrial psychology, testing in industry, human factors psychology, and training in industry. May be repeated for credit with different subject matter.

INP 7097 GRADUATE SEMINAR IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY
PR: Cl. Seminars on topics such as industrial psychology, evaluation of performance in industry, and human factors. May be repeated for credit with different subject matter.
PFE 6058 PERSONALITY
PR: Admission to graduate program in psychology or Cl. Traditional and current theory and research in the area of personality. M.A. core course.

PSB 6056 PHYSIOLOGICAL PSYCHOLOGY
PR: Admission to graduate program in psychology or Cl. Neural and physiological foundations of behavior. Structure and function of the central nervous system. Physiological basis of learning, motivation in subhumans and humans. M.A. core course.

PSY 6217 RESEARCH METHODS AND MEASUREMENT
PR: Cl. Courses in research strategies, design and analysis, and measurement theory in psychological experimentation. Inferential statistics, correlational methods, and interpretation. May be repeated for credit with different subject matter.

PSY 6218 GRADUATE RESEARCH METHODS
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

PSY 6907 INDEPENDENT STUDY
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

PSY 6946 PRACTICUM AND INTERNSHIP IN CLINICAL PSYCHOLOGY
PR: Cl. Supervised training in community and university settings in the application of psychology. May be repeated for credit.

PSY 6947 GRADUATE INSTRUCTION METHODS
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

PSY 6971 THESIS: MASTER'S
Repeatable. (S/U only.)

PSY 7780 PROGRAM EVALUATION
PR: PSY 6217 A & B or Cl. CLP 6348, SOP 6669 desirable. An overview of principles and practices of program evaluation, including historical background, purposes and methods, planning and implementation, political context, ethics, and utilization.

PSY 7900 DIRECTED READINGS IN PSYCHOLOGY
PR: Cl. An advanced reading program of selected topics in Psychology under the supervision of a psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member. May be repeated for credit.

PSY 7918 DIRECTED RESEARCH
PR: GR. Ph.D. level. Repeatable. (S/U only.)

PSY 7931 SEMINAR IN ETHICS AND PROFESSIONAL PROBLEMS
PR: Second year in Ph.D. program in psychology or Cl. Ethical issues and professional problems in the practice of psychology.

PSY 7940 PRACTICUM IN PROGRAM EVALUATION
PR: PSY 7800 or Cl. Supervised training in program evaluation within community agencies.

PSY 7980 DISSERTATION: DOCTORAL
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

SOP 6059 SOCIAL PSYCHOLOGY
PR: Admission to graduate program in psychology or Cl. Overview of theoretical and research in social psychology. Attitudes, values, group processes, leadership, conformity, social learning and motivation. M.A. core course.

SOP 6669 TOPICS IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY
PR: Cl. Courses on topics such as experimental social psychology, organizational psychology, attitudes, and group process. May be repeated for credit with different subject matter.

SOP 7609 GRADUATE SEMINAR IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY
PR: Cl. Seminars on topics such as social psychology, scientific communications, and decision making. May be repeated for credit with different subject matter.

PUBLIC ADMINISTRATION
Acting Director: F.W. Swierczek; Professor: J.E. Ireisat; Associate Professors: M.E. O'Donnell, F.W. Swierczek.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY
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
PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision-making.

PAD 5417 PERSONNEL ADMINISTRATION
A study of the major functions in public personnel, including recruiting, selection, testing, training, and development, and employee and human relations in the public service.

PAD 5605 ADMINISTRATIVE LAW
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 6112 ADMINISTRATION OF PUBLIC POLICIES
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 5807 ADMINISTRATION OF URBAN AFFAIRS
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 6034 COMPARATIVE PUBLIC ADMINISTRATION
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.

PAD 6037 BUREAUCRACY AND PUBLIC POLICY
Analysis of the formal, informal, and societal characteristics of public bureaucracies. A study of the implementation of public policy by bureaucratic agencies.

PAD 6060 SEMINAR IN PUBLIC ADMINISTRATION
Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.

PAD 6105 SEMINAR IN PUBLIC ORGANIZATIONAL CHANGE
Introduction to problems, diagnosis, strategies, and methodology of changing public organizations.

PAD 6207 PUBLIC FINANCIAL ADMINISTRATION
An examination of the fiscal organization of federal, state and local governments. Current problems in budgeting, revenue and indebtedness are considered.

PAD 6228 STATE AND LOCAL BUDGETING
An examination of the budgetary systems and practices of state and local governments with emphasis on preparation, authorization, execution and control.

PAD 6306 URBAN POLICY ANALYSIS
Examination of the organizational and administrative aspects of planning, program development, and evaluation at local levels by state, regional, and other agencies.

PAD 6327 SEMINAR IN PROGRAM EVALUATION
Focus on program cycle-planning, development, implementation and evaluation, needs assessment, goal setting, designing alternative program structures, and grant writing.

PAD 6907 INDEPENDENT STUDY
A flexible format for conceptual or theoretical studies in public administration. Cl. Majors and non-majors.

PAD 6909 SPECIAL PROJECT IN PUBLIC ADMINISTRATION
A required thesis-like quality research project or policy design and report. Majors only.

PAD 6915 DIRECTED RESEARCH
A flexible format for structured field research in public administration. Cl. Majors and non-majors.

PAD 6934 SELECTED TOPICS IN PUBLIC ADMINISTRATION
A flexible format to offer specialized courses not available within the regular curriculum. Majors and non-majors. May be repeated as topics vary.

PAD 6946 FIELD WORK IN PUBLIC ADMINISTRATION
A structured learning and work experience in a public agency or non-profit organization. Cl. Majors only.
URP 5131 IMPLEMENTATION MEASURES IN URBAN/REGIONAL PLANNING I (4)
Basic legal concepts of land-use planning and implementation with the use of legal reference materials and academic works; zoning, subdivision regulation, public uses, and environmental issues. Majors and non-majors. Cross-listed with Political Science.

URP 5132 IMPLEMENTATION MEASURES IN URBAN/REGIONAL PLANNING II (4)

URP 6056 CITY AND REGIONAL PLANNING (4)
A review of goals, objectives, and interrelationships between regional and city planning; intergovernmental and policy issues. Majors and non-majors. Cross-listed with Political Science.

REHABILITATION COUNSELING

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

GRADUATE COURSES

EGC 5065 REHABILITATION: CONCEPTS AND THEORETICAL ISSUES (4)
An introduction to the rehabilitation process in the public and private sector. An integration of concepts and procedures from the medical, socio-psychological, and human service disciplines.

EGC 5376 MEDICAL ASPECTS OF DISABILITY (4)
A survey of medical conditions and disabilities encountered by rehabilitation counselors. Examines the relationship of client handicaps to rehabilitation programming.

EGC 5493 SEMINAR IN PRINCIPLES AND PRACTICES OF REHABILITATION COUNSELING I (3)
PR: CI. Counseling and case management procedures appropriate to meeting the needs of handicapped individuals in the rehabilitation process. Must be taken concurrently with EGC 5850. (S/U only.)

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

EGC 5725 INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING I (4)
PR: CI. Focuses on the utilization of one’s self in the counseling relationship. Emphasis is on the experiential exploration and development of interpersonal skills.

EGC 5850 PRACTICUM I (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 5965 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.

EGC 6205 EVALUATION IN THE REHABILITATION PROCESS (4)
PR: CI. Examines assessment procedures utilized in the rehabilitation process and critical issues in the evaluation of the handicapped.

EGC 6215 VOCATIONAL EVALUATION AND ADJUSTMENT SERVICES OF THE HANDICAPPED AND DISADVANTAGED (4)
An introduction to various systems of vocational evaluation including work samples, situational assessment and on-the-job evaluation. Includes adjustment services.

EGC 6375 PLACEMENT METHODS AND PROCESSES (4)
PR: CI. An in-depth examination of placement methods and processes with handicapped individuals. Includes a survey of work requirements in different occupations and how these relate to specific functional limitations.

EGC 6417 APPLICATIONS OF LEARNING PRINCIPLES (4)
PR: CI. Application of various learning principles and procedures to special problems encountered in rehabilitation.

EGC 6468 PSYCHOSOCIAL ASPECTS OF DISABILITY IN REHABILITATION COUNSELING (4)
PR: CI. Personal, social, psychological, and environmental aspects of disability in America relevant to rehabilitation counseling with handicapped individuals.

EGC 6470 PRACTICUM IN APPLIED ALCOHOL ABUSE IN REHABILITATION COUNSELING (4)
PR: EGC 5496. An extension of EGC 5496 with emphasis on field work in alcoholism and alcoholism treatment.

EGC 6476 REHABILITATION OF THE DEAF AND HEARING IMPAIRED: ASSESSMENT AND EVALUATION (4)
PR: SPA 2001, SPA 4333, SPA 4363, SPA 4405, EGC 6205, EGC 6374 or CI. An in-depth examination of assessment and evaluation issues in the rehabilitation of the deaf and hearing impaired.

EGC 6477 REHABILITATION OF THE DEAF AND HEARING IMPAIRED: COUNSELING AND CASE MANAGEMENT (4)
PR: EGC 6476, EGC 6727, SPA 6335, or CI. Procedures and processes of case management and counseling for deaf clientele.

EGC 6494 SEMINAR IN PRINCIPLES AND PRACTICES OF REHABILITATION COUNSELING II (3)
PR: EGC 5493, EGC 5850. Continuation of EGC 5493. Must be taken concurrently with EGC 6851. (S/U only.)

EGC 6497 THEORETICAL AND EXPERIENTIAL APPROACHES TO COUNSELING THE ALCOHOL ABUSER (4)
PR: EGC 5496 and CI. An extension of EGC 5496 with emphasis on experiential approaches to counseling the alcohol abuser.

EGC 6566 GROUP WORK IN REHABILITATION COUNSELING (4)
PR: CI. Extension of EGC 6566 with emphasis on field work.

EGC 6727 INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING II (4)
PR: EGC 5725. An extension and intensification of skills developed in EGC 5725.

EGC 6767 RESEARCH IN REHABILITATION (4)
PR: CI. The evaluation and utilization of available research studies and the development of research skills. An individual research project is required.

EGC 6851 PRACTICUM II (1)
PR: EGC 5493, EGC 5850. Continuation of EGC 5850. Must be taken concurrently with EGC 6494. (S/U only.)

EGC 6885 INTERNSHIP IN REHABILITATION (8)
PR: CI. Student placement in an approved intern setting for a minimum of 600 hours of supervised experience. (S/U only.)

EGC 6906 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

EGC 6915 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

EGC 6934 SEMINAR IN REHABILITATION COUNSELING (1-4)
PR: CI. Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor. May be repeated for credit with different content.

EGC 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

SOCIAL SCIENCES (INTERDISCIPLINARY)

UNDERGRADUATE COURSES

SSI 4162 THE CITY AND MAN  
An interdisciplinary study of selected urban problems.  
(3)

SSI 4164 SOCIAL ISSUES OF OUR TIME  
An interdisciplinary study of selected social issues of today.  
(3)

STA 3122 SOCIAL SCIENCE STATISTICS  
A study of statistical terms and methods to provide students with comprehension thereof, enable them to use statistics in research, and understand their use in professional social science journals.  
(3)

GRADUATE COURSES

SSI 5934 SELECTED TOPICS  
PR: CI plus senior standing or graduate status; Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.  
(1-3)

SSI 6900 DIRECTED READING  
PR: CI and graduate status. A supervised program of intensive reading of interdisciplinary materials of specific interest. May be repeated.  
(1-3)

SSI 6910 DIRECTED RESEARCH  
PR: GR. Master's level. Repeatable. (S/U only.)  
(var.)

SOCIAL WORK

Chairperson: P.L. Smith; Professor: G. M. St. L. O'Brien; Associate Professors: T. Howard, W.S. Hutchison, Jr., F.C. Johnson, B. Yeğidis Lewis, J.C. Renick, P.L. Smith; Assistant Professors: R. Martin, R.L. White, R. Willetts; Visiting Faculty: Professor: W. Vasey; Instructor: A.J. Floyd; Courtesy Faculty: Professor: J.J. Kosberg; Associate Professor: D. Boone; Instructor: L. Middleton.

UNDERGRADUATE COURSES

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I  
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families and groups.  
(3)

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II  
PR: SOW 3101. Restricted to Social Work majors; others by Department permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with organizations and communities.  
(3)

SOW 3203 INTRODUCTION TO SOCIAL WELFARE AND SOCIAL WORK  
An introductory course tracing the development of the American welfare system and the development of social work as a major profession within that system.  
(4)

SOW 3403 RESEARCH AND STATISTICS FOR SOCIAL WORK  
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. The purpose of this course is 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.  
(4)

SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM  
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.  
(4)

SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION  
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. Intervenent methods with individuals, families and small groups. Some agency field work required.  
(5)

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION  
PR: All pre-core courses, SOW 4341, SOW 4233, and SOW 3102 may be taken as PR or CR. Restricted to Social Work majors, others by Department permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Some agency field work required.  
(5)

SOW 4361 SENIOR SEMINAR  
PR: All pre-core courses; all core Social Work courses, except that SOW 4510 may be taken as CR. This course is the final course taken in the BSW curriculum. It is restricted to Social Work majors in their final stages of the senior year. The course serves as a means for assisting the student in synthesizing and integrating his/her learning experiences in the BSW program.  
(3)

SOW 4510 FIELD PLACEMENT  
PR: Completion of all social work core courses except SOW 4361. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 35 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.  
(10)

SOW 4900 DIRECTED READINGS  
PR: Completion of four social work courses including SOW 3403, upper division 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.  
(1-6)

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK  
PR: Consent of chairperson. 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 students' educational interest.  
(1-3)

GRADUATE COURSES

SOW 6105 NORMATIVE DEVELOPMENT AND THE SOCIAL ENVIRONMENT  
PR: Consent of chairperson. Interaction of biological, psychological, social, and cultural environments on growth and adaptation.  
(5)

SOW 6121 THEORETICAL PERSPECTIVES ON DYSFUNCTIONING  
PR: Consent of chairperson. Addresses the spectrum of psychosocial responses to disease, injury, developmental disabilities and stress of both chronic and acute states; identifies major forms of psychopathology and central modes of adaptation.  
(3)

SOW 6126 DYNAMICS OF DYSFUNCTIONING IN CHILDREN AND YOUTH  
PR: Consent of chairperson. Specific disease, injury and stress states; etiology and typical response patterns. Parallels dysfunctional states addressed concurrently in treatment course.  
(2)

SOW 6129 DYNAMICS OF DYSFUNCTIONING IN THE ADULT AND ELDERLY  
PR: Consent of chairperson. Study of specific dysfunctional states; etiology and typical response patterns. Parallels dysfunctional states addressed in concurrent treatment course.  
(2)

SOW 6235 TRENDS AND ISSUES IN SOCIAL POLICY AND SERVICES  
PR: Consent of chairperson. Examines historical themes and analyzes programmatic development of present American social welfare system. Attention given to policy-clinical practice interaction.  
(4)

SOW 6356 TREATMENT METHODS WITH CHILDREN AND YOUTH  
PR: Consent of chairperson. Differential psychosocial treatment related to various dysfunctional states with children and youth. Parallels dysfunctional states addressed in concurrent behavior course.  
(2)

SOW 6359 TREATMENT METHODS WITH ADULTS AND THE ELDERLY  
PR: Consent of chairperson. Differential psychosocial treatment related to various dysfunctional states encountered in field with adults and the elderly. Parallels dysfunctional states addressed in concurrent behavior course.
SOW 6360 SOCIAL WORK PRACTICE: THE PSYCHOSOCIAL PERSPECTIVE (5)
PR: Consent of chairperson. Historical development of knowledge, skills and ethics of the profession. Psychosocial model of clinical practice is emphasized. Primary focus on individual modality.

SOW 6362 INDIVIDUAL, FAMILY AND GROUP TREATMENT I (3)
PR: Consent of chairperson. Emphasizes selection of techniques of the psychosocial model of treatment. Primary focus on family, couple, and parent-child problems. Group treatment modalities are introduced.

SOW 6368 INDIVIDUAL, FAMILY AND GROUP TREATMENT II (3)
PR: Consent of chairperson. Continuation of SOW 6362. Primary focus on psychosocial model of group treatment. Comparison with individual and family modality.

SOW 6375 MACRO PRACTICE SEMINAR (3)
PR: SOW 6435, SOW 6368, SOW 6335. Restricted to MSW students; others by Department permission. Various facets of organizational environment in which clinical practice takes place; develops skills in various macro practice functions of the agency, such as supervision, program operations, and interagency relations.

SOW 6404 SOCIAL WORK MEASUREMENT AND DESIGN (3)
PR: Consent of chairperson. Assumes competence in fundamental techniques of descriptive and inferential statistics. Organized around modules and structured exercises designed to stimulate research issues and processes found in social work settings.

SOW 6432 MICRO AND MACRO RESEARCH EVALUATION (3)
PR: Consent of chairperson. Projects and exercises designed to simulate typical practice problems are coordinated. Prepares student for the field research project.

SOW 6435 FIELD RESEARCH (3)
PR: Consent of chairperson. Formal mechanism, under Departmental supervision, for conducting required agency-based research on some aspect of the agency's target population or service delivery system. (S/U only.)

SOW 6534 FIELD INSTRUCTION I (4)
PR: Consent of chairperson. Supervised field instruction in a social service agency consisting of approximately 20 hours per week plus a 2 hour practice seminar. (S/U only.)

SOW 6535 FIELD INSTRUCTION II (6)
PR: Consent of chairperson. Supervised field instruction in a social service agency consisting of approximately 32 hours per week plus a 2 hour practice seminar. (S/U only.)

SOW 6536 FIELD INSTRUCTION III (4)
PR: Consent of chairperson. Supervised field instruction in a social service agency consisting of approximately 20 hours per week plus a 2 hour practice seminar. (S/U only.)

SOW 6900 DIRECTED READINGS (1-3)
PR: Admission to MSW program. A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by departmental chair.

SOW 6931 SELECTED TOPICS IN SOCIAL WORK (1-4)
PR: CI. Restricted to MSW students; others by Department permission. Variable topic courses will selectively expand on the four sequence areas in the social work curriculum.

SOCIETY


UNDERGRADUATE COURSES

DHE 4101 POPULATION (3)
PR: SOC 2000 or CI; upper division standing. Sociological determinants of fertility, mortality and migration; theories of population change.

LEI 4163 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, sub-cultures, religion, value systems, social class, and the functions of government.

LEI 4167 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.

MAF 2001 MARRIAGE (3)
Study of pre-marital and marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

MAF 3501 THE FAMILY (3)
PR: SOC 2000 or CI. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

SOC 1020 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.

SOC 2000 INTRODUCTION TO SOCIOLOGY (3)
Nature and application of sociological concepts, theories, and methods; analysis of societies, associations and groups; social processes and social change.

SOC 2484 CAREERS IN SOCIOLOGY (1)
PR: One course in sociology. An examination of sociology as a career base and a basis for general education. Employment opportunities, occupational skills taught in the several courses, and other useful aspects of sociology will be discussed. Description of the several sub-fields of specialization and a brief introduction to the courses taught in the department will lead to the student's making a tentative program schedule for his major. The value of sociology to the individual as a self-actualizing person of unique worth will be stressed. (S/U only.)

SOC 3211 SOCIOLOGY OF RELIGION (3)
PR: SOC 2000 or CI. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SOC 3410 SOCIAL STRATIFICATION (3)
PR: SOC 2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.

SOC 3422 SOCIAL ORGANIZATION (3)
PR: SOC 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SOC 3500 SOCIAL INVESTIGATION (3)
PR: SOC 2000, STA 3122. Methods and techniques of social research. Design of sociological studies, collection of data, and interpretation of results. (S/U only.)

SOC 3612 FOUNDATIONS OF THEORY (3)
PR: SOC 2000 or CI. Consideration of selected theories in sociology and procedures of systematic theory construction.

SOC 3695 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)
PR: Major in the College of Social and Behavioral Sciences and CR in an upper division 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 cassettes) in the commentary film. Ethics of film making.

SOC 3965 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)
PR: SOC 3695, 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.)

SOC 3745 RACIAL AND ETHNIC RELATIONS (3)
PR: SOC 2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.
SOC 3800 SOCIAL PSYCHOLOGY
PR: PSY 2012 or SOC 2000. Behavior of the individual human being as affected by social and cultural influences of modern society.

SOC 4130 JUVENILE DELinquENCY
PR: SOC 2000 or CI; upper division standing. Theories of delinquency, patterns of delinquent behavior, methods of control and treatment.

SOC 4150 CRIMINOLOGY
PR: SOC 2000 or CI; upper division standing. Etiology of criminal behavior; law enforcement, crime in the United States; penology and prevention.

SOC 4221 POLITICAL SOCIOLOGY
PR: SOC 2000 or CI. An examination of the social factors that affect government, politics, and political behavior.

SOC 4230 SOCIOLOGY OF MEDICINE
PR: SOC 2000 or CI. An examination of the major theoretical and methodological tools used by sociologists in studying medical care. A representative sampling of medical sociological studies will be reviewed and discussed.

SOC 4261 SOCIOLOGICAL IMPLICATIONS OF INDUSTRIALIZATION
PR: SOC 2000 or CI. Socio-cultural elements which define and accompany the process of industrialization as observed in mature industrial nations.

SOC 4263 OCCUPATIONS AND PROFESSIONS
PR: Upper division standing or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on process professionalizing service occupations like law enforcement, business management, public administration and social work.

SOC 4316 URBAN SOCIOLOGY
PR: SOC 2000 or CI; upper division standing. The social structure of the community in modern industrial societies. Analysis of community change.

SOC 4320 COMPARATIVE RURAL SOCIOLOGY
PR: SOC 2000 or CI. The study of rural life in the United States; compares the situation in the United States with that of other societies as well as other times in history; some aspects of rural peasant societies and experiments in rural community formation.

SOC 4402 SOCIETY IN TRANSITION
PR: Introduction to Sociology and upper level standing. An analysis of the forces for change in contemporary society, utilizing a sociological perspective.

SOC 4531 COMPUTERS IN SOCIOLOGICAL RESEARCH
PR: COC 3300 and 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.

SOC 4651 SOCIOLOGY OF THE ARTS
PR: SOC 2000 or CI; upper division standing. The creation, distribution and use of arts from a sociological perspective; the social roles involved.

SOC 4850 COLLECTIVE BEHAVIOR
PR: SOC 2000 or CI; upper division standing. Study of the development of group and mass behavior—crowds, social movements.

SOC 4910 INDIVIDUAL RESEARCH
PR: Four courses in sociology, including SOC 3500, upper division standing, at least 3.0 overall GPA, or CI. Content dependent upon interest and competence of student. A contract specifying the work to be done must be completed and signed by both the student and the chairperson of the department before registration for this course will be permitted. May be repeated for credit. Up to 3 credits may be counted towards meeting major electives requirement.

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

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

GRADUATE COURSES

MAF 6621 FAMILY ANALYSIS
PR: Course in Family or CI. Theory of interpersonal relations and interaction in the modern family. Analysis of functions and roles.

SOC 5265 INDUSTRIAL SOCIOLOGY
PR: SOC 2000 or CI; upper division standing. Interaction, communication and authority in economic organizations; the factory as a social system.

SOC 5405 SOCIAL CHANGE
PR: SOC 2000 or CI; upper division standing. Major theories of social and cultural change, and mechanisms of change in various societies.

SOC 5804 SOCIAL INTERACTION
PR: SOC 3800 or CI; upper division standing. Interpersonal influence, complex behavior, role, conflict, and social situational factors.

SOC 5825 SOCIOLOGY OF SMALL GROUPS
PR: SOC 2000 or CI; upper division standing. Theory of small group structure, mechanisms of interaction, observation of small groups.

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

SOC 6106 DEVIANCE & CONTROL
PR: Course in criminology or juvenile delinquency or CI. Theories of control and deviance with research application in problem areas.

SOC 6302 COMMUNITY ANALYSIS
PR: Course in Urban Sociology or CI. Theories of community and community organization. Methods of community study; problems of urban areas.

SOC 6426 COMPLEX ORGANIZATIONS
PR: Course in Social Organizations or CI. Organizational Theory, bureaucratic models, authority, power legitimation, and types of formal organization.

SOC 6502 METHODS OF RESEARCH
PR: Course in Social Investigation or CI. Logic and practice of research; problems of observation and data collection, data processing, and evaluation.

SOC 6526 SOCIOLOGICAL STATISTICS
PR: STA 3122 or CI. Logic and application of parametric and non-parametric statistical analysis for sociological data.

SOC 6606 CONTEMPORARY SOCIOLOGICAL THEORY
PR: Undergraduate course in sociological theory or CI. Emphasizes logical and conceptual dimensions of theory and theory construction.

SOC 6699 THE COMMUNICATION OF SOCIOLOGY
PR: SOC 6502, SOC 6526, SOC 6606, or CI. Designed to help student define and formalize more effective efforts at communicating sociology. Majors only.

SOC 6805 SOCIAL PSYCHOLOGY SEMINAR
PR: Course in Social Psychology or CI. Stresses contemporary developments in social psychological theory and empirical research.

SOC 6909 INDEPENDENT STUDY
(var.) Independent study in which student must have a contract with an instructor. Repeatable; (S/U only.)

SOC 6912 DIRECTED RESEARCH
(var.)

SOC 6933 SPECIAL TOPICS-SOCIOLOGY
PR: CI. Content varies according to interests of students and instructor. May be repeated for credit.

SOC 6971 THESIS: MASTER'S
(var.) Repeatable. (S/U only.)

WOMEN'S STUDIES PROGRAM
Director: J. Ochshorn; Professor: J.H. Williams; Associate Professors: M. Myerson, J. Ochshorn, J.B. Snook

UNDERGRADUATE COURSES

AFA 4335 BLACK WOMEN IN AMERICA
PR: WST 2010, 2011, or AFA 2001, or CI. An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience. (Offered for credit in Women's Studies or African and Afro-American Studies.)

ANT 4382 WOMEN IN CROSS-CULTURAL PERSPECTIVE
PR: ANT 3410 or CI. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (Also offered under Anthropology.)
LIT 3383 IMAGE OF WOMEN IN LITERATURE (4)
An historical literary analysis of stereotyped and liberated female images from Sappho through the emergence of the women's movement. (May also be taken for credit in English.)

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

REL 3145 WOMEN AND RELIGION (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.)

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

WST 2011 INTRODUCTION TO WOMEN'S STUDIES II (3)
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

WST 3210 WOMEN IN WESTERN CIVILIZATION I (4)
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 (4)
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 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 (4)
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 (4)
PR: WST 2010, or WST 2011, 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 (4)
PR: WST 2010, or WST 2011, 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 (4)
PR: WST 2010, or WST 2011, or Cl. The influence of the health care system on the process which socializes people to traditional sex roles.

WST 4380 HUMAN SEXUAL BEHAVIOR (4)
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 4930 SELECTED TOPICS (1-4)
PR: WST 2010 or Cl. Study in special areas such as Women Writers, Southern Women, Communications.

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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Tallahassee
State University System
BARBARA NEWELL, Chancellor

*term expires

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University of South Florida
May, 1993
UNIVERSITY OF SOUTH FLORIDA

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Faculty Assistant to the President .................... HARVEY A. MOORE
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Florida Mental Health Institute

Director ...................................................... JACK ZUSMAN
Associate Director, Clinical/Community Services .... JOE V. GONZALEZ
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Associate Dean and Director of Graduate Studies .... CHARLES A. McINTOSH, JR.
Assistant Dean and Director of Undergraduate Studies . MELVIN T. STITH (LOA)
Coordinator of Undergraduate Advising .................. ROBERT B. THOMPSON
Academic Coordinator of Executive MBA ................ STEVEN A. BAUMGARTEN

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Center for Economic and Management Services ....... G. HARTLEY MELLISH
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Special Education .......................................... AUGUST J. MAUSER

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Student Personnel .......................................... MELVIN G. VILLEME
Teacher Education Centers and Off-Campus Programs . PHILLIP PFOST
Center for Children with Special Learning Needs .... JAMES W. BARNARD
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Chairman, USF Press Editorial Board ................................. SILVIA R. FIORE

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Army ROTC ........................................................ LT. COL. CARLTON SMITH

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Director, Regional Data Center ................................ TBA
Director, Operations Analysis ................................. LYnda BLOCK HILL

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Assistant General Counsel ........................................... TBA
Assistant General Council ......................................... TBA
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Director, University Personnel Relations .................... PAULA N. KNAUS

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Director, Recreational Sports .................................... ANDREW HONKER
Director, Student Health Services ............................... MARIA ANDERSON
Director, Student Publications ................................. LEO STALNAKER
Director, Sun Dome .............................................. MICHAEL BARBER
Director, University Center (Acting) ....................... JAMES CROUCH

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Director, Development ............................................... DONALD B. SWEGAN
Director, Governmental Relations ............................. TBA
Director, Media Relations and Publications ................... MICHAEL K. SIMMONS
Executive Director, Athletic Association ....................... RICHARD T. BOWERS
FACULTY AND ADMINISTRATIVE STAFF

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 15, 1982. (A semicolon between degrees indicates different institutions.)

ABRAM, JACQUES .......................................................... Professor (Music), 1963
   Diploma with Distinction, Julliard School of Music, 1938
ACHEBACH, KARL E. .......................... Assistant Professor (Psychiatry), 1979
   B.A.; Ph.D., University of Florida, 1966
ACKERMAN, DORIS J. .......................... University Librarian (Libraries), 1969
   B.A.; M.L.S., Rutgers, 1969
AIR, W. E., JR. .................................. Assistant Professor (Biochemistry), 1975
   Sc.B.; Ph.D., Georgetown University, 1972
ADAMS, PATRICIA B. .................................. Assistant Professor (Nursing), 1976
   B.S.N., M.N., University of Florida, 1974
ADAMS, PATRICIA W. .......................... Counselor and Adviser
   (Academic Services, Undergraduate Studies), 1965
AGETT, JOHN A. .......................... Director (Financial Aids, Student Affairs), 1980
   B.A.; M.S., State University of New York at Albany, 1967
AGRESTI, DAVID L. .......................... Assistant Professor (Criminal Justice), 1973
   B.A.; M.S.W.; Ed. D., Nova University, 1980
AHRENS, VICKI W. .......................... Student Affairs Coordinator
   (Entrance Standards, Student Affairs), 1974
   B.A.; M.A., University of South Florida, 1975
ALBERS, BRADLEY G. .......................... Assistant Professor (Music-SYCOM), 1978
ALBERTSON, HELEN D. .......................... Instructor - Librarian (Libraries), 1982
   St. Petersburg Campus
   B.A.; M.S., Ph.D., University of Miami, Florida, 1980
ALEXANDER, LUELLA K. .......................... Lecturer (Sociology), 1972
   B.A.; M.A., Ohio State University, 1966
ALEXANDER, MICHAEL D. .......................... Clinical Psychologist (Counseling), 1975
   Sarasota Campus (Part time)
   B.S., M.A., Ph.D., Ohio State University, 1972
ALEXIOU, NICHOLAS G. .......................... Assistant Professor
   (Comprehensive Medicine), 1979
   A.B.; M.P.H.; M.D., University of Vermont, 1955
ALI, ELFAITH M. .......................... Assistant Professor (Civil Engineering and Mechanics), 1981
   B.Sc.; M.S.C.E., Ph.D., Ohio State University, 1979
ALIX, CLETA M. .......................... Assistant University Librarian (Libraries), 1981
   B.A.; M.L.S., Louisiana State University, 1978
ALJURE, JULIO .......................... Assistant Professor (Surgery), 1981
   B.A.; M.D., Premedical and Medical School at National University
ALLEN, HAROLD C. .......................... Assistant Professor (Management), 1967
   B.A.; M.B.A.; Ph.D., University of Florida, 1969
ALLEN, JAMES L. .......................... Professor (Electrical Engineering), 1972
   B.S.E.E., M.S.E.E., Ph.D., Georgia Institute of Technology, 1966
ALLEN, LOIS P. .......................... Assistant in Research (Diabetes Center), 1980
   B.S., M.S., Florida State University, 1975
ALLEN, NOLA A. .......................... Associate Professor (Criminal Justice), 1979
   B.A.; L.L.B., J.D.; M.A., Ph.D., University of Notre Dame, 1979
ALLYN, JANET F. .......................... Visiting Instructor (College Administration, Education), 1977
   B.A.; M.A., University of South Florida, 1974
ALTIERI, JOANNE S. .......................... Visiting Associate Professor
   (Humanities), New College of USF, 1982 Sarasota Campus
   A.B.; M.A., Ph.D., University of North Carolina, 1969
ALTUS, PHILIP .......................... Associate Professor (Internal Medicine), 1976
   A.B.; M.D., State University of New York, Upstate Medical Center, 1971
   A.B.; M.D., State University of New York, Upstate Medical Center, 1982
   A.B., M.S., Ph.D., University of Florida, 1964
   AMBERDAR, VEENA .......................... Visiting Assistant Professor (Mathematics),
   New College of USF, 1981 Sarasota Campus
   B.Sc., M.Sc.; Ph.D., Indian Institute of Technology, Delhi, India, 1975
   AMEN, MICHAEL M. .......................... Assistant Professor
   (Interdisciplinary Social Sciences), 1982
   B.A.; M.A.; Ph.D., University of Geneva, 1976
   AMMONS, J. MICHAEL .......................... Research Associate
   (Electrical Engineering), 1980
   B.A., M.S., Ph.D., University of South Florida, 1980
   ANDERSON, DAVID E. .......................... Visiting Associate Professor (Psychiatry), 1981
   B.A.; M.A.; Ph.D., University of Oregon, 1966
   ANDERSON, DONALD J. .......................... Continuing Education Coordinator
   (Regional Campus Affairs), 1967 Ft. Myers Campus
   B.S.; M.A., University of South Florida, 1971
   ANDERSON, E.CHristian .......................... Professor (Psychological and Social
   Foundations Education), 1964
   B.S., M.A., Ph.D., University of Michigan, 1964
   ANDERSON, JEAN R. .......................... Department Head and University Librarian
   (Libraries), 1975 Ft. Myers Campus
   B.A.; M.S.L.S., Columbia University, 1961
   ANDERSON, MARIA J. .......................... Director (Student Health Services,
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   M.D., University of Havana School of Medicine, 1961
   ANDERSON, MELVIN W. .......................... Professor-Coordinator (Civil Engineering
   and Mechanics), 1969
   B.S., M.S., Ph.D., Carnegie-Mellon University, 1967, P.E.
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   B.A.; M.S., Ph.D., North Texas State University, 1971
   ANDREWS, ANTHONY P. .......................... Assistant Professor (Anthropology),
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   B.A.; M.A., Ph.D., University of Arizona, 1980
   ANGROSINO, MICHAEL V. .......................... Professor (Anthropology), 1972
   University of North Carolina, 1973
   B.A.; M.A.; Ph.D., University of North Carolina, 1972
   ANKER, JAMES M. .......................... Acting Associate Vice President
   (Academic Affairs), Professor (Psychology), 1974
   A.B.; M.A., Ph.D., Catholic University of America, 1957
   ANTIA, MURAD J. .......................... Assistant Professor (Finance), 1981
   B.S.; M.B.A.; Ph.D., University of Houston, 1981
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   ANTON, WILLIAM D. .......................... Director (Counseling Center,
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   B.A., M.A.; Ph.D., University of South Florida, 1975
   APPLEGATE, MINERVA I. .......................... Associate Professor (Nursing), 1976
   B.S.N.; M.Ed., Ed.D., Columbia University Teachers College, 1980
   ARCHER, CYNTHIA S. .......................... Professor
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   B.A., M.A., University of South Florida, 1975
   ARENDASH, GARY W. .......................... Assistant Professor (Biologv), 1981
   B.S.; Ph.D., University of California, San Francisco, 1978
   ARNADE, CHARLES W. .......................... Professor (Interdisciplinary
   Social Science), 1961
   A.B., M.A., Ph.D., University of Florida, 1935
   ARNAULT, RALPH L. .......................... Associate University Librarian
   (Libraries), 1982 St. Petersburg Campus (Part time)
   B.A., M.S., Simmons College, 1973
   ARSENAULT, RAYMOND O. .......................... Assistant Professor (History), 1980
   St. Petersburg Campus
   B.A.; M.A., Ph.D., Brandeis University, 1980
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   AUBEL, JOSEPH L. .......................... Associate Professor (Physics), 1964
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AUCREMAN, CHARLES E.        Associated Professor-Chairperson (Family Medicine), 1975
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AUSBON, WILLIAM W.        Professor - Acting Director (Pediatrics), 1982
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AZAR, HENRY A.           Professor (Pathology), 1972
B.A., M.D., American University of Beirut, Lebanon, 1952
BAGLEY, DANIEL S. III       Associate Professor (Mass Communications), 1979
B.S.; M.B.A.; Ph.D., University of Tennessee, 1977
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B.A.; M.A., Ph.D., Princeton University, 1955
BALFOUR, ALAN              Associate Professor (Management), 1980
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BALIS, JOHN U.            Professor (Pathology), 1978
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BANES, ALBERT A.          Professor (Physical Education, Student Affairs), 1979
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BARBER, MICHAEL R.        Director (Multipurpose Facility, Student Affairs), 1980
B.S.; M. Ed., University of Toledo, 1980
BARBER, SOTRIOSS A.        Professor (Political Science), 1967
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BARKHOLD, GERALD R.       Assistant Professor (Library, Media and Information Studies Education), 1968
B.S., M.Ed.; Ed.D., University of Florida, 1976
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BARRY, PATRICIA P.        Assistant Professor (Internal Medicine), 1979
B.S.; M.D., University of South Florida, 1975
BARTELS, LOREN J.         Assistant Professor (Surgery), 1980
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BARTLETT, ALTON C.        Professor (Management), 1967
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BASS, EDWARD              Assistant Professor (Internal Medicine), 1982
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B.S.; M.S., Ed.D., Indiana University, 1964
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BELKnap, DANIEL F.       Assistant Professor (Marine Science), 1979 St. Petersburg Campus
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BELL, JAMES A.         Associate Professor (Philosophy), 1974
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BELT, JACK W.           Associate Professor (Theatre Arts), 1966
B.A.; M.F.A.; J.D., University of Florida, 1967
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B.S., New College of USF, 1975 Sarasota Campus
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BENSON, ANDRE W.        University Physician (Student Health Service, Student Affairs), 1980
B.S.; M.D., University of Florida, 1973
BENTLEY, JOSEPH G.       Professor (English), 1961
B.A., M.A.; Ph.D., Ohio State University, 1961
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BENTON, J. EDWIN        Assistant Professor (Political Science), 1979
B.A., M.A.; Ph.D., Florida State University, 1978
BENTON, THELMA D.       Director (Intercollegiate Athletics), 1969
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B.A.; M.D., University of Virginia, 1964
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Professional Graduate Diploma, The Juilliard School, 1963
BERGREN, DOUGLAS C.     Professor (Humanities), 1969
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B.S., M.S., New Mexico Institute of Mining & Technology, 1955

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B.A., University of South Florida, 1966

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B.S., M.B.A., Florida State University, 1974

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B.S.C.; Ph.D., St. Bonaventure University, 1963

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St. Petersburg College, 1969
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B.S., M.S.; Ph.D., City University of New York, 1974

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B.S., M.A.; M.E., Columbia University, 1977

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B.S.; M.S., State University of New York, Oswego, 1969

BIERSDORF, WILLIAM R. ............... Associate Professor (Ophthalmology), 1978
B.S., M.S.; Ph.D., University of Wisconsin, 1954

BINFORD, JESSE S., JR. ............... Professor (Chemistry), 1961
B.A.; M.A.; Ph.D., University of Utah, 1955

BIRKIN, STANLEY J. .................... Professor (Management), 1969
B.S.C., M.S.C.; Ph.D., University of Alabama, 1969

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B.S.; M.D., Tulane Medical School, 1970

BLAIR, R. CLEVELAND .................. Associate Professor (Measurement and Research Education), 1975
B.A., M.A., University of South Florida, 1972

BLAKE, MICHAEL G. .................... Assistant Professor (Mathematics), 1981
B.A.; M.A.; Ph.D., Michigan State University, 1981

BLAKE, NORMAN J. ..................... Associate Professor (Marine Science), 1972 St. Petersburg Campus
B.S.; M.S., Ph.D., University of Rhode Island, 1972

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

BLENHORN, GEORGE H. ............... Associate Director (Facilities Planning), 1977
B.C.N., University of Florida, 1954, P.E.

BLOCH, SYLVAN C. ..................... Professor (Physics), 1963
B.S., M.S., Ph.D., Florida State University, 1962

BLOOMQUIST, ALLEN J. ............... Associate Professor (Psychology),
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B.S.; M.P.A., Nova University, 1980

BLOUNT, MERRY L. ...................... Athletic Coach (Intercollegiate Athletics), 1979
B.S.; M.S., Pennsylvania State University, 1975

BLOUNT, WILLIAM R. ................... Associate Professor (Criminal Justice), 1968
B.A.; M.A.; Ph.D., George Peabody College, 1969

BLUDS, PETER A. ...................... Assistant Professor (Humanities),
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B.S.; M.A., Ph.D., Princeton University, 1976

BOATWRIGHT, EARL W., JR. ........... Instructor (Marketing), 1982
B.S.; M.B.A., Florida State University, 1970

BOLIVAR, JUAN C. ...................... Professor (Surgery), 1972
B.S., M.D.; M.D., University of Paris, Sorbonne, 1940

BOLLINGER, CYNTHIA A. ............... Director, Human Resource Development (Employee Relations and Legal Affairs), 1980
B.A., University of South Florida, 1980

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

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

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

BOTT, WILLIAM K. ..................... Professor (Guidance Education), 1960

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

BOWERS, LOUIS E. ..................... Professor-Chairperson (Physical Education, Education), 1967

Bowers, Richard T. .................... Professor and Executive Director
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B.S.; M.S., Ed.D., George Peabody College, 1961

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

Boxill, Bernard R. ..................... Associate Professor (Philosophy), 1980
B.A.; M.A.; Ph.D., University of California at Los Angeles, 1971

Boyce, Henry W., JR. ................. Professor (Internal Medicine), 1975
B.S.; M.S.; M.D., Bowman Gray School of Medicine, 1955

Boyd, Herbert F. ...................... Professor (Exceptional Child Education), 1978
B.S., M.S., Ph.D., University of Illinois, 1958

Boyd, L. ADLAI ..................... Florida Mental Health Institute Faculty, 1978
B.A.; M.Div.; M.A.; Ph.D., Temple University, 1978

Boyd, Sarah E. ......................... Assistant Professor (Nursing), 1977
B.S.; M.S.; M.P.S., Long Island University, 1977

Boyd, William P., JR. .............. Assistant Professor (Internal Medicine), 1979
B.S.; M.D., University of South Carolina, 1972

Bradley, Robert V. .................... Associate University Librarian (Libraries), 1959
B.A., M.A., Florida State University, 1957

Brady, Henry G. ....................... Associate Professor (Adult and Vocational Education), 1969
B.S.; M.Ed.; Ph.D., Florida State University, 1969

Brady, Patrick G. ..................... Associate Professor (Internal Medicine), 1978
A.B.; M.D., New Jersey College of Medicine, 1968

Braman, Robert S. ..................... Professor (Chemistry), 1967
B.S.; Ph.D., Northwestern University, 1966

Brames, Herman J. .................... Continuing Education Center Administrator (Regional), 1964
B.S., M.S., Indiana University, 1964

Brandmeyer, Gerard A. .............. Associate Professor - Acting Chairperson
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B.S., M.A., Ph.D., University of California, Los Angeles, 1962

Brandon, Susan E. .................... Assistant In (Biology), 1980
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B.A.; M.A., University of North Carolina, 1965

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B.S.; M.S., University of South Florida, 1976

Breit, Frank D. ....................... Associate Professor (Content Specializations/Science Education), 1968
B.A.; M.Ed., Ph.D., Texas Woman's University, 1968

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A.B.; M.A.; B.M., M.D., Laval University, Quebec, 1942

Bridges, Virginia A. ................. Professor (Music Education), 1964
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B.S.; M.A., Ed.D., Ph.D., University of Florida, 1975

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B.A.; M.A.; Ed.D., Florida State University, 1979

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B.S., M.A., Ph.D., University of South Florida, 1952

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B.S., Ohio State University, 1948

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

Broner, Cynthia W. ................... Visiting Instructor (Pediatrics), 1982
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Brooker, H. Ralph ..................... Associate Professor (Physics), 1964
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A.B.; M.A., Ph.D., Cornell University, 1965
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CATLIN, ROBERT A. ………………… Associate Professor (Political Science), 1977
B.S.; M.S.; Ph.D., Claremont Graduate School, 1976
CAVAN, M. DENIS …………………… Professor (Osteetrics and Gynecology), 1977
M.B., Ch.B., University of Glasgow, 1952
CECONI, ISABELLA F. …………….. Lecturer (English), 1960
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CHANDLER, KEITH W. ……………… Assistant Professor (Internal Medicine) 1981
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CHEN, LI-TSUN …………………….. Associate Professor (Anatomy), 1980
B.Sc.; Ph.D., University of Alberta, 1968
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CHERRY, R. ADRIAN ……………….. Associate Professor (Languages), 1961
B.A., M.A., Ph.D., University of Kentucky, 1960
CHISWELL, ROBERT ……………….. Associate Professor (Languages), 1961
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CLAPP, ROGER W., JR …………….. Associate Professor (Physics), 1963
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CLARK, JAMES R………………….. Systems Coordinator (Computer Research Center), 1982
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CLARK, JOHN R………………….. Professor (English), 1973
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CLINE, RALPH …………………….. Associate Professor (Exceptional Child Education), 1971 St. Petersburg Campus
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COOPER, CLARA B………………….. Associate Professor (Humanities), 1969
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M.D., University of Buenos Aires, 1976
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CRANE, ROGER A………………….. Associate Professor-Assistant Chairperson (Mechanical Engineering), 1974
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B.S.; M.A.; Webster College, 1981
CRITTENDEN, JERRY ……………….. Associate Professor (Communicology), 1971
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B.Arch., University of Florida, 1969
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A.B., M.A., Ph.D., University of Texas, 1964

FACTOR, REGIS A.
 Associate Professor (Political Science), 1971
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C.P.A., Clark University, 1971

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B.A.; M.A., Ph.D., Syracuse University, 1978

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Sarasota Campus
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B.A.; B.S.; M.A.; M.B.A., Louisiana State University, 1977, C.P.A.

FENDER, RICKARD C.
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B.A., University of South Florida, 1969

FENSKE, NEIL A.
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FERGUSON, DONALD G.
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B.S.; M.A.; Ed.D., Western Reserve University, 1956

FERNANDEZ, JACK E.
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B.S., Ch., M.S., Ph.D., University of Florida, 1954

FERNANDEZ, RAYMOND J.
Associate Professor (Pediatrics), 1977
B.A.; M.D., Tulane University School of Medicine, 1968

FIERENSEZ, ROBERT C.
Associate Professor-Associate Chairperson (Psychiatry), 1977
B.S.; M.D., University of Tennessee, 1969

FERNANDEZ, SUSAN J.
Counselor/Adviser (Academic Advising, Student Affairs), 1974
B.A.; M.A., University of South Florida, 1975

FERRARO, NANCY E.
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B.S., Sarasota Campus
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FETZER, JAMES H.
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A.B.; M.D., Ph.D., Indiana University, 1970

FIGG, ROBERT M., III.
Associate Professor (English), 1965
B.S., M.A., Ph.D., University of North Carolina, 1965

FILSKOV, SUSAN B.
Associate Professor (Psychology), 1975
B.A., Ph.D., University of Vermont, 1975

FINELLI, PATRICK M.
Coordinator (Fine Arts Events), 1976
GORDON, HORACE C. Lecturer (Electrical Engineering), 1973

PONZALEZ, GOODMAN, GONZALEZ, Gooling, Dolores

GOLLOWAY, GOFORTH, GOFF, GLASS, Harvey, GLUCKMAN, GILMORE, Alden

GIBBS, DOROTHY S. Visiting Instructor (Adult and Vocational Education), 1981

B.A., M.A., University of South Florida, 1981

GIERON-KORTHALS, MARIA A. Visiting Assistant Professor (Centers for Children with Special Learning Needs, Education), 1981

M.D., Medical School, Warsaw, Poland, 1971

GILBERT RICHARD. Assistant Professor (Mechanical Engineering), 1978

B.A.; M.S., John Carroll University, 1971

GILMAN, HAROLD F. Assistant Professor (Geography), 1979

B.A.; M.A., Ph.D., University of California at Riverside, 1977

GILMORE, ALDEN S. Associate Professor (Gerontology) 1961

B.A., M.A., Florida State University, 1957

GLADDEN, TOM T. Assistant Professor (Family Medicine), 1981

M.D., University of Kashmir, Taiwan, 1969

GLASS, HARVEY. Professor (Computer Science and Engineering), 1969

B.S., M.S., D.Sc., Washington University, 1965

GLASSER, STEPHEN P. Professor (Internal Medicine), 1976

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GLOVER, KOFI A. Professor (African Studies), 1972

B.A.; M.A.; Ph.D., Indiana University, 1975

GLUCKMAN, STEPHEN J. Assistant Professor (Anthropology), 1977

B.A.; M.A.; Ph.D., The Catholic University of America, 1973

GOFF, A. ALLAN D. Counselor/Advisor (Academic Services, Undergraduate Studies), 1978

A.B., M.Ed., Ohio University, 1971

GOFORTH, FRANCES S. Associate Professor (Childhood and Language Arts Education), 1967

B.S., M.Ed.; Ed.D., Indiana University, 1966

GOLDING, LOIS A. Professor (Music Arts), 1962


GOLDBERG, DOUGLAS A. Professor (Internal Medicine), 1974

B.A., B.S., M.D., University of Minnesota, 1968

GOLLWAY, GLENN G. Associate Professor (Psychiatry), 1976

B.A.; M.D., Cornell University Medical College, 1949

GOMEZ, OSBORNE L. Director (Extension Library), 1965

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A.B., M.A., M.S.L.S., Florida State University, 1969

GOMEZ, RAFAEL A. Associate Professor (Radiology), 1977

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B.S.E.E., M.S.E.E.; Ph.D., University of Florida, 1973

GONZALEZ, JOE V. Florida Mental Health Institute Faculty, 1979

B.S., M.D., University of Florida, 1961

GONZALEZ, JUAN A. Professor (Mechanical Engineering), 1965

B.S., M.S., Virginia Polytechnic Institute, 1950

GOODING, DOLORES K. Instructor-Acting Director (Industrial and Management System Engineering), 1975 St. Petersburg Campus

B.S.E.E., M.S.E.E., University of South Florida, 1975

GOODMAN, ADOLPH W. Distinguished Service Professor (Mathematics), 1964

B.S., M.A., Ph.D., Columbia University, 1947

GORDON, CHARLES A. Coordinator (Undergraduate Advising, Education), 1968

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GORDON, HORACE C. Lecturer (Electrical Engineering), 1973

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GOULD, JAMES A. Professor (Philosophy), 1964

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

GOWEN, HOWARD B. Associate Professor (Humanities), 1963

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GRABSTALD, HARRY Professor (Surgery), 1982

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GRAHAM, ARTHUR D. Professor (Radiology), 1972

M.D., University of Colorado, 1958

GRANDON, GARY M. Associate Director (Computer Research Center), 1981

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GRANGE, ROGER T., JR. Professor (Anthropology), 1964

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GRANT, JONATHAN. Visiting Assistant Professor (Biology), 1982

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GRASSO, ROBERT J. Associate Professor (Medical Microbiology), 1971

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GRAVELY, ARCHER R. Coordinator (Institutional Research), 1981

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GRAY, JIM S., JR. Assistant Department Head-Assistant University Librarian (Libraries), 1980

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GREENBEALL, LEON C., JR. Professor-Chairperson (Childhood and Language Arts Education), 1970

B.S., M.S., Ed.D., Syracuse University, 1969

GREEN, CAROLE A. Assistant Professor (Economics), 1982


GREEN, MARCIA Coordinator (Office, University Relations), 1980

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GREENBAUM, SUSAN D. Assistant Professor (Anthropology), 1981

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GRECO, PATRICIA L. Acting Continuing Education Coordinator (Executive M.B.A. Program), 1981

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GREGORY, S. JOAN. Associate Professor-Assistant Dean for Student Personnel and Outreach (Nursing), 1977

B.S., M.S., Ph.D., University of Florida, 1977 R.N.

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GRIMES, MAXYNE M. Assistant Director (Medical Center Library), 1972

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GRINDEY, ROBERT J. Associate Professor (Elective Physical Education, Education), 1964

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GRISCTI, WALTER E. Professor (Mass Communications), 1967

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GROSS, PINCUS. Associate Professor (Rehabilitation Counseling), 1971

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GROSSMAN, STEVEN H. Assistant Professor (Chemistry), 1981

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GUNTER, BILLY G. Associate Professor (Sociology), 1968

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GUST, GIESELHER R. Associate Professor (Marine Science), 1979 St. Petersburg Campus

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B.S.; M.S.; Ph.D., University of Berne, Switzerland, 1970

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HILBELINK, DON R. .............. Assistant Professor (Anatomy), 1980
B.S.; M.Ed., Florida A&M University, 1971

HINDLE, WILL M. .................... Professor (Visual Arts), 1972
HINE, ALBERT C. ................. Associate Professor (Marine Science), 1979
St. Petersburg Campus
A.B.; M.S.; Ph.D., University of South Carolina, 1975

HINSCH, GERTRUDE W. ............ Professor (Biology), 1974
B.S.; M.S., Ph.D., Iowa State University, 1957

HINZ, JOHN .................. Dean-Profiessor (St. Petersburg Campus), 1979
B.A., M.A., Ph.D., Columbia University, 1959

HIRSCH, LEONARD P. .......... Assistant Professor (Political Science), 1981
B.A.; M.A., Ph.D., Northwestern University, 1980

HIRSCHBERG, EDGAR W. ............. Professor (English), 1960
B.A., M.A., Ph.D., Yale University, 1951

HODES, RICHARD S. .......... Professor - Chairperson (Anesthesiology), 1981
B.S., M.D., Tulane University School of Medicine, 1946

HODGES, SHARON P. .......... Associate In (Management), 1981
B.A.; M.B.A., University of South Florida, 1981

HODGSON, JOHN S. .......... Professor (Economics), 1980
B.A.; M.B.A.; Ph.D. University of Virginia, 1971

HOFFMAN, GWEN E. ........... Athletic Trainer (Intercollegiate Athletics), 1980
B.S.; M.S., Indiana University, 1977

HOFFMAN, HUBERT A. .............. Professor (Professional Physical Education), 1966
B.S., M.Ed., P.E.D., Indiana University, 1969

HOFFMAN, THEODORE B. .......... Professor (Humanities), 1962
A.B., M.A., Ph.D., University of the Pacific, 1959

HOLMBERG, DAN L. .......... Athletic Coach (Intercollegiate Athletics), 1965
B.Ed., M.S., Florida State University, 1962

HOLLAND, MARGARET S. .......... Associate Professor (Content Specializations/English Education), 1966
B.A., M.A.T.; Ph.D., Union Graduate School, 1977

HOLM, KATHRYN C. ............... Assistant Professor (Music Arts), 1977 (Part time)
B.M.; M.M., Cleveland Institute of Music, 1973

HOLM, ROY H. .............. Assistant Professor (Geography), 1974 St. Petersburg Campus
A.B., M.S.; Ph.D., University of Chicago, 1979

HOLTZ, LILLIAN C. .......... Director (Space Utilization and Analysis), 1964
B.A., University of South Florida, 1977

HOLZER, GEORGE F. ....... Visiting Lecturer (Dance), 1981
B.A., M.F.A., University of South Florida, 1978

HOMAN, SUSAN P. .............. Visiting Assistant Professor (Reading Education), 1978
B.A.E.; M.A.E., Ph.D., University of Florida, 1978

HONG, SUNGDO D. ........ Visiting Assistant Professor (Psychiatry), 1980 (Part time)
M.D., Seoul National University, 1970

HONKER, H. ANDREW .......... Associate Professor-Assistant Director (Physical Education, Student Affairs), 1969

B.S., M.S., University of Illinois, 1965

HOOKS, KAREN L. ............... Assistant Professor (Accounting), 1979
B.A., University of South Florida, 1976

HOOVER, DENNIS L. .......... Assistant Professor (Surgery), 1982
B.A.; M.D., Abraham Lincoln School of Medicine, University of Illinois, 1972

HOPKINS, THOMAS L. ........... Professor (Marine Science), 1967
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HORACEK, MARGARET B. .... Associate University Librarian (Medical Library), 1974
B.A.; M.S.L.S., Kansas State Teachers College, 1974

HORRIGAN, FREDERICK J. .... Associate Professor (Political Science), 1968
B.A., M.A., Ph.D., Indiana University, 1958

HOUGHTON, LEA M. .............. Academic Administrator (Graduate Studies, Academic Affairs), 1968
B.S., University of Florida, 1976

HUG, WILLIAM G. .......... Professor (Dance), 1969
B.S., M.A., University of Illinois, 1960

HULBARY, WILLIAM E. .......... Associate Professor (Political Science), 1976
B.A., M.A., Ph.D., University of Iowa, 1972

HUSTING, EDWARD L. ............ Professor (Comprehensive Medicine), 1981
B.S., M.P.H.; Ph.D., University of London, 1968

HUTCHCRAFT, GILBERT R. ........ Associate Professor (Education), 1977 Fl. Myers Campus

HUTCHISON, WILLIAM S., JR. .. Associate Professor (Social Work), 1977
B.A., M.S.W., University of Georgia, 1968

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M.D., Charles University School of Medicine, Prague, Czechoslovakia, 1969

IARDO, DOMINICK .......... Associate Professor (Languages), 1970
B.A.; M.A., Ph.D., New York University, 1974

INGALLS, ROBERT P. .......... Associate Professor-Chairperson (History), 1974
B.A., M.A., Ph.D., Columbia University, 1973

INGRAM, JAMES M. .......... Professor-Chairperson (Obstetrics and Gynecology), 1971
M.D., Duke University, 1943

IRIO, JOHN J. ................... Professor (English), 1963
B.A., M.A., Columbia University, 1951

IRONSON, GAIL H. .......... Associate Professor (Psychology), 1979
B.S.; M.S., Ph.D., University of Wisconsin-Madison, 1977

ISAAC, SAMUEL M. .......... Associate Professor (Mathematics), 1968
M.Sc.; Ph.D., Indiana University, 1965

ISBELL, ROBERT G. ....... Associate Professor (Radiology), 1973 (part time)
B.A., M.D., University of Michigan Medical School, 1964

JACKSON, GARY M. .......... Florida Mental Health Institute Faculty, 1978
B.A.; M.A., Ph.D., Southern Illinois University, 1976

JACKSON, JOHN A. .......... Associate Director (Regional Data Center), 1967

JAHODA, SUSAN W. ......... Assistant Professor (Chemistry), 1982
B.S.; Ph.D., Louisiana State University, 1980

JAIN, VIJAY K. ........... Professor (Electrical Engineering), 1972
B.E.; M.E.; Ph.D., Michigan State University, 1964

JAMES, NITA C. ............. Assistant Professor (Communication), 1981
B.A., M.A., Ph.D., Indiana University, 1981

JAMES, PAULA L. .......... Counselor/Adviser (Project Thrust), 1982
B.S., Bethune-Cookman College, 1972

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B.S.L.S.; M.S.L.S.; Ed.D., Nova University, 1977

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B.A.; M.A., Ph.D., University of Minnesota, 1990

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B.M., M.Ed., D.M.E., University of Oklahoma, 1972

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B.A., M.D., University of Vermont, 1963
LAYMAN, JAY S. ............ Associate Business Manager (Medical Center), 1971
B.S., Florida State University, 1968
LEAVENGOOD, LEE B. ........ Director (Lifelong Learning), 1973
B.S.; M.A., University of South Florida, 1973
LEBEAU, REBECCA N. ........ Visiting Instructor (Economics), 1977
B.A.; M.S., Purdue University, 1974
LEE, BARTON W. ............. Assistant Professor (Theatre), 1982
B.S.; M.A., West Virginia University, 1978
LEE, SUNG JAE ................ Associate Professor (Mathematics), 1981
B.Sc.; M.A.; Ph.D., McMaster University, Canada, 1972
LEES, NANCY J. .............. Assistant Professor (Nursing), 1980
B.S.; M.N., Emory University, 1980
LEFORD, WILLIAM M. ....... Associate Professor (Internal Medicine), 1979
B.A.; M.S., Indiana University Medical Center, 1968
LEIBOWITZ, LEON E........... Assistant Professor (Internal Medicine), 1979
B.A.; M.D., State University of New York at Buffalo, 1970
LEIBOWITZ, LEON E........... Associate Professor (Pathology), 1977
B.S.; Ph.D., New York University, 1970
LEIVY, ARTHUR B. .......... Associate Professor (Political Science), 1970
B.A., M.A., Ph.D., Harvard University, 1969
LEIVY, CHARLENE C. ......... Associate Professor (Social Sciences), 1969
New College of Sarasota Campus
B.A.; M.A., Ph.D., Michigan State University, 1975
LEIVY, JOHN W. .............. Associate Professor (Content Specializations/ Social Science Education), 1972
B.S.; M.A.; Ed.D., University of Georgia, 1970
LEWIS, BONNIE L. ............ Associate Professor (Social Work), 1977
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B.A.; M.A.; Ph.D., Syracuse University, 1967
LEWIS, JAMES E. ............. Associate Professor (Music Arts), 1971
B.M.; M.M., University of Illinois, 1965
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B.A.; M.A.L.S., George Peabody College, 1964
LIANG, JOSEPH J. ............. Professor (Mathematics), 1970
B.A., M.A., Ph.D., Ohio State University, 1969
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LICHTENBERG, DONOVAN R. ....... Professor (Content Specializations/ Mathematics Education), 1962
B.A.; M.S., Ph.D., University of Wisconsin, 1966
LILLETUN, ABBY G. ........... Assistant Professor (Theatre), 1981
B.F.A.; M.F.A., Florida State University, 1980
LILLIBRIDGE, EDMUND M. ...... Counselor/Adviser (Counseling Center, Student Affairs), 1971
B.A.; M.A.; Ph.D., United States International University, 1972
LIM, DANIEL V. .............. Associate Professor (Biology), 1976
B.A.; Ph.D., Texas A&M University, 1973
LIN, SHU-YUNG T. ............ Associate Professor (Mathematics), 1964
B.S., Ph.D., University of Florida, 1965
LIN, YU-FENG .................. Professor (Mathematics), 1964
B.Sc., Ph.D., University of Florida, 1964
LINDER, JEAN B. .............. Assistant Professor (Childhood Education), 1977 Sarasota Campus
B.S.; Ed.M., Ed.D., State University of New York at Buffalo, 1977
LINDER, RONALD .............. Professor (Childhood and Language Arts Education), 1969
B.S., M.S., Ed.D., University of Florida, 1969
LINDSEY, BRUCE G. .......... Assistant Professor (Physiology), 1977
B.A.; Ph.D., University of Pennsylvania, 1974
LINDSEY, MARY J. ............ Coordinator (Special Services, Undergraduate Studies), 1981
LISTON, JOHN P. .............. Budget Analyst (Medical Center), 1978
B.S.B.A., Marquette University, 1970
LIVNAT, SHMUEL ............. Assistant Professor (Medical Microbiology), 1981
B.Sc.; M.S.; Ph.D., Weizmann Institute of Science, Rehovot, Israel, 1976
LLEWELLYN, JOHN A. ......... Professor (Chemical Engineering), 1971
B.Sc., Ph.D., University College Cardiff, 1958
LOCKEY, ANNE S. ............. Visiting Assistant Professor (Psychiatry), 1982
B.A.; M.D., Temple Medical School, 1965
LOGAN, ROBERT A. ........... Assistant Professor (Mass Communications), 1980
B.A.; M.A., University of Iowa, 1977
LONG, CHARLENE M. ......... Assistant Professor (Nursing), 1978
B.S.; M.S., Ohio State University, 1962
LONG, JO ANN ................. Professor (Childhood and Language Arts Education), 1969
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LONG, SUSAN W. .............. Associate Professor (Finance), 1982
B.S.; M.B.A., Ph.D., University of South Carolina, 1976
LONGSTREET, JAMES R. ...... Professor (Finance), 1967
B.A.; M.B.A., Ph.D., Northwestern University, 1955
LONGSTREET, WILLIAM A., III .... Associate Professor (Theatre Arts), 1966
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LOTZ, MICHAEL J. ............ Associate Professor (Pathology), 1978
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LOVELESS, RICHARD L. ....... Professor (Art and Music Education), 1968
B.S.; M.S., Pennsylvania State University, 1964
LOUGHRAN, ALVIN J. .......... Professor (Reading Education), 1966
LOWE, THOMAS L. ............ Associate Professor (Psychiatry), 1980
B.S., M.D., University of Michigan, School of Medicine, 1974
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LUCOFF, MANNY ............... Professor (Mass Communications), 1963
B.S., M.A., Ph.D., University of Iowa, 1971
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LUPTON, D. KEITH ............ Program Director (Interdisciplinary Social Science), 1967
B.S.; LL.B.; M.A., Dartmouth College, 1951
LURIA, L. WILLIAM .......... Assistant Professor (Surgery), 1982
B.S.; M.D., Far Eastern University School of Medicine, Manilla, 1975
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M.D., Louisiana State University School of Medicine, 1949
LUTHER, ANITA B. ............ Assistant in Research (Medicine), 1975
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LYMAN, CHARLES P. .......... Professor (Visual Arts), 1972
B.A.; M.S., Institute of Design, Illinois Institute of Technology, 1969
LYMAN, GARY H. .............. Associate Professor (Internal Medicine), 1977
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MAC CULLOUGH, DOUGLAS B. ... University Registrar (Registrar), 1971
B.A., M.A., University of Florida, 1965
MAC DONALD, GWENDOLINE R. .... Dean-Professor (Nursing), 1973
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B.F.A.; M.A.; Ph.D., University of Florida, 1977
MAC MULLEN, JAMES T. ....... Visiting Assistant Professor (Physics), 1980
B.S.; M.S., Ph.D., University of Arizona, 1979
MACON, A. RILEY .......... Director (Sponsored Research), Professor (Chemistry), 1980
B.S.; M.S.; Ph.D., Northwestern University, 1961
MAC Phiall, JAN A. ..... Associate Professor (Family Medicine), 1981
M.D., University of Toronto, 1956
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B.A., M.Ed., Stetson University, 1981
MALONE, JOHN, 1971
MAMEL, MAURICE MANDLOW, MANKER, CHARLES C., JR., 1970
MANN, CHERYL MANOUGIAN, MANOUG, 1972
MANN, WILLIAM P. MANSELL, MARLOW, MARSH, MARSHALL, MARTIN, MARTIN, PEASE, 1970
MANN, WILLIAM P. MANNING, WILEY P. MANKER, CHARLES C., JR., 1971
MANKER, CHARLES C., JR. Professor (Psychological and Social Foundations Education), 1966
B.A., M.R.E., Ph.D., University of Kentucky, 1956
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MANSFIELD, MARTHA Counselor/Adviser (Business), 1972
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B.S.; M.D., University of South Florida, 1977
MANN, MARCIA L. Associate Professor-Program Director (Childhood and Language Arts Education), 1970
B.A.; M.Ed.; Ph.D., University of Nebraska, 1970
MANN, WILLIAM P. Athletic Coach (Intercollegiate Athletics), 1976
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MANOUGIAN, MANOUG N. Professor-Chairperson (Mathematics), 1968
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MANSELL, JOYCE A. Visiting Counselor/Adviser (Student Personnel, Education), 1981
B.S., M.S., Indiana University, 1964
MANSELL, RICHARD L. Professor (Biology), 1967
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B.S.; M.S.W., Ph.D., University of Connecticut, 1980
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MASSIE, PAUL Associate Professor (Theatre Arts), 1974
MATHENY, ARTHUR R. Assistant In (Biology), 1979
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MAUKSCH, INGEBORG G. Visiting Professor (Nursing), 1981
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MAUSER, AUGUST J. Professor-Chairperson (Exceptional Child Education), 1981
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MAYBURY, P. CALVIN Professor (Chemistry), 1961
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MAYER, GEORGE H. Professor (History), 1969
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B.A.; M.A.; Ph.D., University of Minnesota, 1948
MAZUR, JOSEPH L. Professor-Chairperson (Measurement and Research Education), 1970
A.B.; M.A.; Ph.D., Case Western Reserve University, 1968
MCELHISHER, LINDA L. Dean - Associate Professor (Kinesiology), 1982
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MC CAIN, HANCE C. Coordinator (Development and Alumni Affairs), 1980
B.S., M.S., University of Tampa, 1978
MC CLELLAN, LESLIE Professor (Childhood and Language Arts Education), 1964
B.S.; M.Ed., University of Missouri, 1961
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MC CLUNG, GENE E. Professor (Accounting), 1960 St. Petersburg Campus
B.A.; M.A., Hardin-Simmons University, 1957, C.P.A.
MC CLUNG, NORVEL M. Professor (Biological Sciences), 1966
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MC CORMICK, ROBERT M. Associate Professor (Music Arts), 1974
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M.F.A., Academy of Fine Arts, Prague, 1973

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B.A.; M.A., Ph.D., University of Kansas, 1974

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B.A.; M.S., Ph.D., University of Michigan, 1960

PARKER, JOHN W., JR ........ Visiting Professor (English), 1963
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PARRISH, JAMES, JR. Assistant Professor (English), 1960
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PARRISH, MARY E. Assistant Professor (Mathematics), 1979
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PATOUILLER, LELAND D. Associate Director, Alumni Affairs
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PATTERSON, GERALD E. Associate Professor (Adult and Vocational Education), 1971
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PATTERSON, MICHAEL H. Director (University Physical Planning, Facilities Planning), 1973
B.A., University of Florida, 1966

PATTERSON, ROGER L. Florida Mental Health Institute Faculty, 1975
B.A., M.S.; Ph.D., Florida State University, 1971

PAULSON, DARRYL G. Associate Professor (Political Science), 1974 St. Petersburg Campus
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PAVAN, PETER R. Assistant Professor (Ophthalmology), 1981
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PEARCEY, WALTER E. JR. Instructor (Childhood and Language Arts Education), 1970
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PENNER, LOUIS A. Professor (Psychology), 1969
B.A.; M.A., Ph.D., Michigan State University, 1969

PERRARD, VICTOR E. Associate Professor (Languages), 1975
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PEREZ, JO ELLEN V. Visiting Assistant Professor (Administration, Education), 1981
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PEREZ, LOUIS A. JR. Professor (History), 1970
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B.S.B.A., University of Florida, 1968

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PETEYERSON, DONOVAN D. Professor (Educational Leadership Education), 1968
B.S.; M.A.; Ph.D., University of Pittsburgh, 1970

PETETGREW, LOYD S. Assistant Professor (Communication), 1982
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PETTIGREW, JAMES H. Assistant Academic Administrator (Cooperative Education and Placement, Student Affairs), 1981
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PFEIFER, ERIC A. Professor-Director (Psychiatry), 1978
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PFISTER, FRED C. Associate Professor (Library, Media and Information Studies Education), 1976
B.S.; M.Ed.; A.M.L.S.; Ph.D., University of Michigan, 1970

PFOST, H. PHILIP. Associate Professor-Program Director (Reading Education), 1967
B.A.; M.Ed.; Ed.D., George Peabody College, 1966

PHAM, SON. Assistant Professor (Computer Science and Engineering), 1980
B.S.; M.S.; Ph.D., University of Cincinnati, 1975

PHELPS, CHRISTOPHER P. Associate Professor (Anatomy), 1976
A.B.; Ph.D., Rutgers University, 1973

PHILLIPPI, STEVE W. Associate In (College Administration, Education), 1974
B.A.; M.B.A., University of South Florida, 1974

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PIERCE, CARMEIL J. Counselor/Adviser (Student Personnel Advising, Education), 1970 St. Petersburg Campus
B.S., University of South Carolina, 1945

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POLETT, ROBERT J. Visiting Associate Professor (Internal Medicine), 1974
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POLSON, JAMES B. Assistant Dean-Associate Professor (Pharmacology), 1971
B.A.; M.B.A.; M.D., University of Missouri, 1968

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POWELL, ROBERT W. Associate Professor (Psychology), 1966
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POWER, FRED B. Associate Professor (Finance), 1964
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PRATHER, SAM W. Associate Professor (Elective Physical Education), 1962
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B.S., M.S.; Ph.D., University of Missouri, 1959

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**RITTERMAN, STUART I.**.....Professor (Communicology), 1969
B.A.; Ph.D., Case Western Reserve University, 1966, C.C.C.

**RIVARD, RICHARD J.**.......Associate Professor (Finance), 1977
B.S.; M.S., Ph.D., Texas A&M University, 1978

**ROBERTS, LORIE G.**........Coordinator (Student Personnel Office, Education), 1968
B.S., M.S., Emporia State Teachers College, 1963

**ROBERTS, ROBIN E.**.........Athletic Coach (Intercollegiate Athletics), 1976
B.S., Michigan State University, 1948

**ROBERTS, WILLIAM S.**.....Assistant Professor (Obstetrics and Gynecology), 1982
B.S.; M.D., New Jersey Medical School, 1976

**ROBERTSON, HENRY M.**.....Professor (American Studies), 1961
B.A.; M.A., Ph.D., University of Minnesota, 1966

**ROBERTSON, PHYLLIS M.**...Counselor/Adviser (Student Personnel Office, Education), 1968
B.A., University of Minnesota, 1941

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

**ROBINSON, CLAIRE S.**.....Budget Officer (Administration and Finance), 1960
B.A., University of South Florida, 1978

**ROBINSON, EMMETT M.**.....Professor (Mathematics), 1961
B.A.; M.A., University of Minnesota, 1966

**ROBINSON, GERALD G.**.....Professor (Mathematics), 1960
B.S., Ph.D., University of Minnesota, 1960

**ROBINSON, JOHNSON J.**.....Professor (Measurement and Research Education), 1963 St. Petersburg Campus
B.S.; M.A.; Ed.D., Harvard University, 1960

**ROBINSON, SANDRA W.**.....Visiting Assistant Professor (Dance), 1982

RODRICK, GARY E. Associate Professor-Associate Chairperson (Comprehensive Medicine), 1978
B.A.; M.S.; Ph.D., University of Oklahoma, 1971

ROBISON, JOHN 0.

ROMEO, JOHN

ROOT,

ROSE,

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ROSS,

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ROUSH, S.

ROWLANDS, DAVID T. Professor-Professor Chairperson (Pathology), 1982
M.D., School of Medicine, University of Pennsylvania, 1955
B.A.; M.A., University of Michigan, 1969

RUNDUS, DEWEY J. Director (Psychology), 1972

B.F.A., North Carolina School of the Arts, 1970

ROBISON, JOHN O. ............ Assistant Professor (Music), 1977

ROCHELLE, DAVID B. ........... Director, University TV (Educational Resources), 1979

J.B.A., University of Houston, 1956

RODICK, GARY E. Associate Professor-Associate Chairperson (Comprehensive Medicine), 1978

ROBISON, JOHN 0.

ROCHELLE, DAVID B.

RUBIN, STEVEN J. ................. Professor (English), 1969

RUSH, JAMES A. ................ Professor (Ophthalmology), 1979

A.B.; M.D., Georgetown University School of Medicine, 1972

RUSH, WILLIAM E. ............... Associate Dean (Medical Clinics), Associate Professor (Pediatrics), 1979

B.S.; M.D., Wayne State University, 1952

RUSSELL, WALLACE A. .......... Dean-Professor (Social and Behavioral Sciences), 1982

B.S., M.A.; Ph.D., State University of Iowa, 1949

RUTENBERG, DANIEL ............ Professor (Humanities), 1964

A.B., M.A.; Ph.D., University of Florida, 1967

SABA, HUSSAIN I. ............. Associate Professor (Internal Medicine), 1975

M.D.; Ph.D., University of North Carolina School of Medicine, 1970

SABA, SABIA ................... Assistant Professor (Pathology), 1979

B.S.; M.D., Dabney Medical College, India, 1933

SACCO, WILLIAM P. .......... Assistant Professor (Psychology), 1979

B.A.; M.S., Ph.D., Florida State University, 1979

SACKETT, WILLIAM M. .......... Professor—Chairperson (Marine Science), 1979

St. Petersburg Campus

A.B., Ph.D., Washington University, 1958

SAENZ, ARMANDO ............. Associate Professor (Psychiatry), 1975

B.A.; M.D., University of Texas, Southwestern Medical School, 1963

SAFF, DONALD J. ............. Distinguished Service Professor (Visual Arts), 1966

B.A.; M.A.; F.A.; Ed.D., Columbia University, 1964

SAFF, EDWARD B. ............ Professor (Mathematics), 1969

B.S.; Ph.D., University of Maryland, 1968

SANDERS, THOMAS E. .......... Associate Professor (English), 1968

B.A., M.A., University of Denver, 1951

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B.A., M.A., Ph.D., University of South Florida, 1980

SANDEJER, JACK ............. Professor (Psychology), 1969

B.A.; M.S.; Ph.D., Florida State University, 1969

SANKEY, ANNIE F. ........... Counselor/Adviser (Project Thrust), 1980

B.A., Florida Memorial College, 1974

SAPORTA, SAMUEL ............. Associate Professor (Anatomy), 1977

B.A.; Ph.D., University of Southern California, 1973

SARACENO, CARMELO A. ....... Assistant Professor (Surgery), 1978

B.S., M.D., University of Maryland, 1973

SASMOOR, JEANETTE L. ........ Professor (Nursing), 1979

B.S.; M.Ed., Edinboro University, 1974

SASSER, EMERY L. ............ Professor-Chairperson (Mass Communications), 1973

A.B., M.A.; Ph.D., University of Illinois, 1967

SATO, ATSUSHI ........... Visiting Research Associate (Biochemistry), 1980

B.S.; M.S.; Ph.D., Tokushima University, 1979

SAXON, SUE V .......... Professor (Gerontology), 1963

B.S., M.S., Ph.D., Florida State University, 1963

SCERBO, JOSE C. ............ Assistant Professor (Obstetrics and Gynecology), 1981

B.S., M.D., University of Buenos Aires, 1971

SCHALEMAN, HARRY J., JR. ...... Associate Professor (Geography), 1969, St. Petersburg Campus

B.S.; M.A., University of Cincinnati, 1963

SCHATZ, DAVID R. .......... Associate Professor (Humanities), New College of USF, 1975, Sarasota Campus

B.A.; M.A., Harvard University, 1969

SCHEINCK, DAVID P. ....... Associate Professor-Director (Languages), 1974

B.A.; M.A., University of Pennsylvania, 1975

SCHMIDT, PAUL J. .............. Professor (Pathology), 1981

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B.S.; M.S.; M.D., New York University, 1953

SCMITT, CHARLES J. ........... Coordinator (Fine Arts Events), 1976

B.A.; M.S.A., University of Wisconsin, 1956

SCHNEIDER, RAYMOND J. ....... Professor (Communication), 1968

A.B.; Ph.L.; M.A.; S.T.L.; Ph.D., University of Michigan, 1965
SCHNEIDER, STEWART W. .............. Professor (Chemistry), 1971
B.S.; M.S.; Ph.D., Indiana University, 1968

SCHNITZLER, HAROLD N. .............. Professor (Anatomy), 1973
A.B.; M.S., Ph.D., St. Louis University, 1954

SCHOCKEN, DOUGLAS D. ............ Assistant Professor (Internal Medicine), 1981
B.A., M.D., Duke University, 1974

SCHRODER, HAROLD M. .............. Professor-Director (Management), 1973
B.A.; M.A., Ph.D., Ohio State University, 1954

SCHROEDER, ROBERT ................. Associate Professor (Visual Arts), 1981

SCHWARTZ, ARTHUR L. .............. Associate Professor (Finance), 1982
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B.A.A.; M.B.A.; Ph.D., University of Oregon, 1975

SCHWARTZ, CAROLE J. .............. Instructor (Childhood and Language Arts Education), 1970

B.A.; M.S., University of Wisconsin, 1969

SCHWARTZ, JAMES B. ............... Assistant Professor (Economics), 1982
B.A.; M.A.; Ph.D., University of North Carolina, 1982

SCHWARTZ, JULIA L. ............... Assistant Department Head-University Librarian (Libraries), 1962
B.S.; M.S.L.S., Case Western Reserve University, 1955

SCOTT, LAWRENCE E. .......... Coordinator (Development/Alumni Affairs), 1976
B.S.; M.A., Ed.D., Western Michigan University, 1976

SCOTT, LINUS A. .................... Acting Associate Dean-Professor-Chairperson (Energy Conversion and Mechanical Design), 1964

B.S.M.E., M.S.E.; Ph.D., Case Institute of Technology, 1960, P.E.

SCOURTES, CHRISTINE C. .......... Counselor/Adviser (Educational Leadership and Higher Education), 1973

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

SCRUGGS, CHARLES E. .............. Associate Professor (Languages), 1972
B.A.; M.A., Ph.D., University of Kentucky, 1968

SEDAHL, PAUL H. .................. Assistant Professor (Natural Sciences), New College of USF, 1978, Sarasota Campus
B.S.; Ph.D., University of Wisconsin, 1977

SEGRAVE, FRANCES M. .......... Student Affairs Coordinator (Student Affairs), 1974, St. Petersburg Campus

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SEARLS, EVELYN F. ............... Associate Professor (Reading Education), 1974

SEEHOLZEN, TIM F. .............. Assistant Professor (Family Medicine), 1978
A.B., M.D., Indiana University School of Medicine, 1973

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SELMAN, JAMES ................... Professor (And Adult Vocational Education), 1971
B.S., M.S., Ed.D., Florida State University, 1967

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M.B.B.S., Toniaiwa National Medical College, 1968

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B.S.; M.B.A.; Ph.D., University of Illinois, 1966

SHANNON, ROGER ................... Professor (Physiology), 1974
B.A., Ph.D., University of Kentucky, 1970

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B.A., M.A., Ph.D., University of Chicago, 1965

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B.S.N., M.S.N., University of Cincinnati, 1978

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J.M.B.; M.D., University of Cape Town Medical School, 1966

SHEA, WILLIAM M. .............. Associate Professor (Religious Studies), 1980
B.A.; Ph.D., Columbia University, 1974

SHELLEY, SUE A. ................ Associate Professor (Pathology), 1978
B.A.; M.S., Ph.D., Loyola University of Chicago, 1974

SHEPHERD, DAVID C. .............. Professor (Communicology), 1972
B.A., M.A.; Ph.D., Syracuse University, 1962

SHERMAN, BARBARA R. .......... Assistant Vice President for Academic Affairs (Planning and Budgeting), 1977
A.B.; M.D., University of Michigan, 1973

SHERMAN, JAMES J. .............. Professor (Management), 1967
B.S.; J.D.; Ph.D., State University of New York at Buffalo, 1966

SHERMAN, JAMES M., JR. ........ Visiting Assistant Professor (Pediatrics), 1981
B.A., M.D., University of South Florida, 1975

SHEWMAKER, JANETH D. .......... Assistant University Librarian (Libraries), 1979 St. Petersburg Campus
A.B.; M.S.L.S., Case Western Reserve University, 1953

SHIFFMAN, SAUL M. .............. Assistant Professor (Psychology), 1981
B.S.; M.A., Ph.D., University of California, Los Angeles, 1981

SHILOH, AILON .................... Professor (Anthropology), 1973
B.A.; M.A.; Ph.D., Dropsie University, 1959

SHIRES, DANAL, JR. .............. Professor (Internal Medicine), 1973
B.S., M.D., University of Florida, 1961

SHIVER, ROBERT H. .............. Assistant Director (Golf Course, Student Affairs), 1969
B.S., University of Florida, 1961

SHOTTALL, JOHN W., III ........ Lecturer (Mechanical Engineering), 1980
B.S., Northwestern University, 1950

SHOWS, E. WARREN .............. Professor (Economics), 1964
B.A.B., M.B.A., Ph.D., Georgia State University, 1968

SHULMAN, DOROTHY I. .......... Visiting Assistant In Research (Diabetes Center), 1982
B.A.; M.D., University of Kansas Medical Center, 1978

SITZ, ROBERT T. ................... Professor (Psychology), 1969
B.A.; M.S., Ph.D., University of Wisconsin, 1956

SIEBEL, JERRY D. .............. Associate Professor (Accounting), 1976
B.B.A., M.S., Ph.D., University of Iowa, 1967, C.P.A.

SIEGEL, RICHARD L. .............. Assistant Professor (Pediatrics), 1981
A.B., M.D., Ph.D., Washington University, 1977

SILBERT, EDWARD M. .............. Assistant Dean (Social and Behavioral Sciences), Associate Professor (History), Coordinator (Advising), 1963
B.S.; M.A.; Ph.D., University of Florida, 1966

SILBIGER, MARTIN L. ............. Associate Professor-Chairperson (Radiology), 1973 (Part-Time)
A.B.; M.D., Western Reserve University, 1962

SILVER, ARCHIE A. ............. Professor (Psychiatry), 1978
B.S., M.D., New York University College of Medicine, 1940

SILVER, BRUCE S. ............... Associate Professor (Philosophy), 1971
B.A., M.A., Ph.D., University of Colorado, 1971

SILVER, WARREN S. .............. Professor (Biology), 1970
B.A., M.S., Ph.D., Johns Hopkins University, 1953

SILVER, IRA J. .................. Associate Professor (Criminal Justice), 1972
B.A.; M.A., Ph.D., Ohio State University, 1970

SILVERMAN, MITCHELL .......... Professor (Criminal Justice), 1968
B.A.; M.S., Ohio State University, 1968

SILVERMAN, STUART H. ........ Professor (Psychological and Social Foundations Education), 1970
B.A.; M.S., Ph.D., Yeshiva University, 1971

SIMMONS, A. KEITH .............. Director (Procurement), 1969
B.A., University of South Florida, 1968

SIMMONS, MICHAEL K. .......... Director (Information Services), 1979

S.B., University of Florida, 1970

SIMON, JOSEPH L. ............... Professor (Biology), 1963
B.S.; M.S., Ph.D., University of New Hampshire, 1963

SINGH, SURENDRA P. .......... Professor (Exceptional Child Education), 1967
B.A., M.A.S.; Ed.D., University of California, Los Angeles, 1967

SISCO, JOHN I. ............. Professor-Chairperson (Communication), 1968
B.S.; M.A.; Ph.D., University of Minnesota, 1966

SISK, DOROTHY D. .............. Professor (Exceptional Child Education), 1966
B.S.; M.A.; Ed.D., University of California, Los Angeles, 1966

SISTRUNK, FRANCIS .......... Professor (Psychology), 1965

B.A.; M.A.; Ph.D., University of California, Los Angeles, 1966

B.S.; M.A.; Ph.D., University of California, Los Angeles, 1966

B.A.; M.A.; Ph.D., University of California, Los Angeles, 1966

B.S.; M.A.; Ed.D., University of California, Los Angeles, 1966

B.S.; M.A.; Ed.D., University of California, Los Angeles, 1966
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B.A.; M.D. University of Pennsylvania, 1960
SOLC, HELAINE S. Visiting Assistant In Research (Diabetes Center), 1981
B.A.; M.S.W. University of Houston, 1981
SOLOMON, DAVID A. Associate Professor (Internal Medicine), 1976
B.S., M.D. University of Maryland School of Medicine, 1969
SOLOMONS, T. W. GRAHAM Professor (Chemistry), 1960
B.S.; Ph.D. Duke University, 1959
SOLOMONSON, LARRY P. Associate Professor (Biochemistry), 1976
B.A.; Ph.D. University of Chicago, 1969
SOMMER, ADA M. Assistant Professor (Psychiatry), 1976
Part time
B.S.; M.A., University of Chicago, 1935
SPAIN, FRANK H. Director (Community College Relations), 1959
B.S.; M.S.; Ed.D., University of Florida, 1954
SPARKS, AMY J. Associate Professor (Humanities), 1968
B.A.; M.A.; Ph.D. Louisiana State University, 1964
SPECTER, STEVEN C. Assistant Professor (Medical Microbiology), 1979
B.A.; Ph.D. Temple University, 1975
SPECTOR, PAUL E. Assistant Professor (Psychology), 1981
B.A.; M.A., Ph.D. University of South Florida, 1975
SPENCE, JAMES G. Assistant Professor (Economics), 1975
Pt. Myers Campus
B.S.; M.A., Ph.D. University of Oklahoma, 1979
SPIEGEL, PHILLIP G. Professor-Acting Chairperson (Surgery), 1978
B.A., M.D., Northwestern University, 1960
SPIELBERGER, CHARLES D. Professor (Social Science Program of Distinction), 1972
B.A., M.B.A.; Ph.D., University of Iowa, 1973
SPIRELES, H. ALLAN Associate Professor (Exceptional Child Education), 1971
B.S.; M.Ed., Ed.D., University of Georgia, 1973
STABLEIN, JOHN J. Visiting Assistant Professor (Internal Medicine), 1981 (Part time)
M.D., Abraham Lincoln College of Medicine, University of Illinois, 1976
STAFFA, MARY C. Acting Clinical Psychologist (Counseling Center, Student Affairs), 1982 Sarasota Campus (Part time)
B.A.; M.A.; Ph.D., University of South Dakota, 1973
STAFFORD, JOHN W. Associate Professor (Geography), 1969
B.S., M.S.; M.A.; Ph.D., Michigan State University, 1971
STALNAKER, LEO, JR. Associate Professor-Director (Student Publications, Student Affairs), 1969
B.A., M.A., University of South Florida, 1973
STAMPS, MIRIAM B. Assistant Professor (Marketing), 1982
B.A.; M.B.A.; Ph.D., Syracuse University, 1982
STAMPS, SPURGEON M.D. Professor (Interdisciplinary Social Sciences), 1982
B.S.; M.A., Ph.D., Washington State University, 1974
STANKO, JOSEPH A. Associate Professor (Chemistry), 1973
B.S.; Ph.D., University of Illinois, 1966
STANTON, KENNETH D. Director (Instructional Media, Educational Resources), 1964
B.Des.; M.A., University of South Florida, 1968
STARK, CHARLES R. Assistant Professor (Obstetrics and Gynecology), 1969
M.P.H., M.D., D.P.H., University of Michigan, 1963
STARK, WILLIAM R. Assistant Professor (Mathematics), 1978
B.S.; Ph.D., University of Wisconsin, 1975
STEILE, CHRISTOPHER L. Assistant Professor (Theatre), 1979
B.A.; M.F.A., Southern Methodist University, 1979
STEINER, H. EDWIN, JR. Associate Dean-Professor (Content Specializations/Social Science Education), 1969
B.S., M.A.; Ph.D., University of Texas, 1970
STEINIKE, LEONARD N. Associate Professor (Economics), 1970
B.S.; Ph.D., University of California, Berkeley, 1963
STEINMETZ, JOHN C. ................ Assistant Professor (Marine Science), 1977, St. Petersburg Campus
B.S., M.S.; Ph.D., University of Miami, Florida, 1977

STELZMAN, RAINULF A. ............... Professor (Languages), 1963
D.I.P.; D.I.P. II, Dr. Phil., University of Freiburg, 1953

STENMARK, DAVID E. .................. Professor-Program Director (Psychology), 1977
B.A.; Ph.D., University of Alabama, 1969

STENZLER, STEPHEN A. ............... Assistant Professor (Radiology), 1982
B.A.; M.S.; M.D., State University of New York at Stonybrook School of Medicine, 1978

STEPHENS, RAINULF STEVENMARK, STEVENS, STEPHENS, STEVENS, NOELS.

STEWART, WILLIAM E. .............. Visiting Associate Professor
1977, 1980

STOUDINGER, SUSAN ................. Associate Professor (Communicology), 1982
B.A.; M.A.; Ph.D., University of South Florida, 1972

STRAIGHT, WINIFRED .................. Associate Professor (Libraries), 1972
B.S., M.A., University of Florida, 1971

STIRLING, HAMILTON L. .......... Instructor (Mass Communications), 1973
B.A.; M.A., University of Miami, 1980

STOULL, CARL ......................... Associate Professor (Guidance Education), 1969
B.A.; M.A., Indiana University, 1970

STOUT, RICHARD N. .................. Associate Professor (Languages), 1977
B.A., M.A., University of Florida, 1971

STROUL, GEORGE ....................... Professor (Psychology), 1975
B.A.; M.A., Florida State University, 1977

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

STROM, RICHARD N. .................. Associate Professor (Geology), 1977
B.A.; M.S., Ph.D., University of Delaware, 1975

STRONG, PASCHAL N. ................. Professor (Psychology), 1966
B.A.; Ph.D., University of Tennessee, 1955

STRONG, WILLIAM J. ................. Associate Professor (English), 1963
B.A., M.A.; Ph.D., University of Florida, 1971

SU, SHING-FONG .................... Visiting Assistant Professor (Electrical Engineering), 1981
B.S.; M.S.; Ph.D., Georgia Institute of Technology, 1976

SULLIVAN, TIMOTHY M. .............. Visiting Research Associate
(Pharmacology), 1982
B.S.; M.S., Purdue University, 1982

SUMMER, AVERILL V. ............... Assistant Professor (Music), 1973 (Part time)
B.A.; M.M., D.Mus., Indiana University, 1979

SUMMER, ROBERT J., III .......... Associate Professor (Music Arts), 1973
B.S.; M.M., D.Mus., Indiana University, 1978

SUNNADAM, SWAMINATHA .............. Professor-Chairperson (Physics), 1982
B.Sc.; M.S.; Ph.D., D.Sc., Annamalai University, India, 1960

SURAWICZ, FRIDA G. ............... Professor (Psychiatry), 1980
M.D., University of Munich, Germany, 1943

SUTER, BRUCE W. .................... Lecturer (Computer Science Engineering), 1981 (Part time)
B.S.E., M.S.E., University of South Florida, 1972

SUTTON, CAROLYN ................. Counselor/Adviser (Academic Services), 1979
B.A.; M.A.; Ph.D., University of Alabama, 1969

SUTTON, WILLIAM E. .......... Professor (Geology), 1982
B.A.; M.S., Lehigh University, 1979

TAFT, ROBERT W. .................... Visiting Assistant Professor
(Childhood Education), 1981
B.A.; M.A., M.S., Ed.D., Teachers College Columbia University, 1981

SWEENEY, VIRGINIA ................. Assistant Director-Instructor (Sponsored Research), 1965

SWEENY, ANDOR ....................... Dean (Medicine), 1981
B.A.; B.M., M.D., Annamalai University, India, 1980

SUREWICK, FREDRIC W. .......... Associate Professor-Acting
Professor (Psychology), 1977
B.A.; M.S., University of Pittsburgh, 1978

SWANSON, JAMES M. ............... Associate Professor (History), 1964
B.A.; M.A.; Ph.D., Indiana University, 1968

SWANSON, MARK T. .................. Assistant Professor (Geology), 1982
B.A.; M.S., Lehigh University, 1979

SWARTZ, WILLIAM E., JR. .......... Professor-Chairperson (Chemistry), 1972
B.S.; Ph.D., Massachusetts Institute of Technology, 1971

SWAZMAN, JOYCE B. ............... Visiting Assistant Professor
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B.A.; M.D., Indiana University Medical School, 1980

SWITZER, MARK R. .................. Visiting Instructor (Music), 1982 (Part time)

SWIGART, ROBERT W. .............. Visiting Assistant Professor
(Agricultural Sciences), 1982
B.A.; M.A., Indiana University, 1982

TAYLOR, JAMES F. .................. Professor (Medical Microbiology), 1982
B.A.; M.S., M.D., University of Texas Southwestern Medical School, 1969

TAYLOR, RICHARD N. ............... Associate Professor (History), 1982
B.S.; M.S., University of Florida, 1977

TAYLOR, PHYLLIS ...................... Associate Professor (Languages), 1963
B.S.; M.A., Ph.D., Tulane University, 1969

TAYLOR, CHARLES D. ............... Assistant Professor (Internal Medicine), 1978
B.A.; M.S., Nova University, 1978

TANGNEY, SUSAN D. ............... Student Affairs Coordinator
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B.A.; M.D., University of Texas Medical School, 1967

TATUM, JIM C. ....................... Associate Professor (Languages), 1963
B.S.; M.A.; Ph.D., Tulane University, 1969

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B.A.; M.S., Emory University School of Medicine, 1972

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(Libraries) 1980
B.A.; M.S.L.S., University of Florida, 1981

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B.A.; B.D.; M.Phil., Yale University, 1969

TAYLOR, ROBERT W. ............... Assistant Professor (Criminal Justice), 1981
B.S.; M.S.; Ph.D., Portland State University, 1981

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B.S.; M.A., George Peabody College, 1960
TAYLOR, WILLIAM E. ........ Visiting Coordinator (Adult and Vocational Education), 1981
B.A., M.A., University of South Florida, 1972

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B.S.; Ph.D., University of Pennsylvania, 1969

TERRITO, LEONARD .......... Professor (Criminal Justice), 1978
B.A., M.A.; Ed.D., Nova University, 1975

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B.S.; M.A., Columbia University, 1950

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B.S.; M.S.; Ph.D., University of Chicago, 1968

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B.S., Ph.D., Texas A&M University, 1980

THOMES, DELBERT C. ......... Systems Coordinator (Computer Research Center), 1968
B.S.; M.B.A., Rollins College, 1967

THOMES, SHIRLEY M. .......... Institutional Research Coordinator (Institutional Research), 1969
B.S.Ed., State University of New York, Brockport, 1951

THOMPSON, ROBERT B. ....... Acting Coordinator (Business Administration), 1976
B.A., M.B.A., University of South Florida, 1980

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B.A., M.A., Peabody College for Teachers, 1973

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B.A.; M.L.S., Emory University, 1970

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B.A., M.A.; Ph.D., University of Colorado, 1971

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B.S.N., M.S.N., University of Florida, 1982

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B.A., University of Maryland, 1970

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B.P., M.S.; Ph.D., Kyushu University, 1974

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B.S.; M.A., Ph.D., University of California at Santa Barbara, 1980

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