OST 3110 (formerly BTE 3061)
TYPEWRITING APPLICATIONS (3)
PR: OST 2100 or equivalent competencies. Advanced keyboard applications.

OST 3324 (formerly BTE 3363)
BUSINESS AND OFFICE MACHINES (3)
Instruction and practice on selected business and office machines to solve business mathematics problems.

OST 3404 (formerly BTE 3365)
ADMINISTRATIVE OFFICE MANAGEMENT (3)
Functions of the business office to include systems and procedures, communications, records, management, office employee behavior, controlling the work of the office, and principles of office organization.

OST 3711 (formerly BTE 3031)
OFFICE INFORMATION PROCESSING (3)
PR: OST 2100 or equivalent competencies. Application of concepts and technology of information processing to office operations. Review of the grammar, punctuation, and transcription skills needed for editing in word processing operations. Available to majors and non-majors.

OST 3712 (formerly BTE 3032)
OFFICE INFORMATION PROCESSING II (1-3)
PR: OST 3711. Programming word and information processing equipment; special applications of word and information processing functions to solve field-based problems. Available to majors; or others only with CI.

OST 4213 (formerly BTE 4151) SHORTHAND
DICTATION & TRANSCRIPTION (3)
PR: OST 4212 or equivalent competency levels. Comparative symbol shorthand systems and teaching methodology in developing advanced dictation and transcription skills within a selected symbol system. Emphasis on teaching shorthand as a language tool, development of decision making skills, and factors which affect production rate. Includes concurrent lab.

OST 4271 (formerly BTE 4063)
PRINCIPLES OF SHORTHAND (4)
PR: Completion of upper level competency test or CI. Basic shorthand theory and application. Open to non-majors. Includes concurrent lab.

OST 4272 (formerly BTE 4064)
INTERMEDIATE SHORTHAND (3)
PR: OST 4211 or equivalent competency to include teaching strategies for theory sequencing. Advanced course in theoretical applications with emphasis on teaching techniques for development of speed, kinesthetic chained response, and specialized pretranscription techniques. Includes concurrent lab.

OST 4402 (formerly BTE 4369)
OFFICE OCCUPATIONS PROCEDURES (3)
PR: Successful completion of all basic competency exams required by the program area, or consent of program coordinator. This course is designed to integrate learnings from preceding business and office education courses.

COMPUTERS IN EDUCATION
EME 4402 INTRODUCTION TO COMPUTERS IN EDUCATION (2)
This course introduces fundamental elements of microcomputer technology and their relationship to teaching and learning. The course covers topics involving microcomputer architecture, programming, generic software tools such as word processors and database managers, and software tools for use in instructional environments.

EME 5403 MICROCOMPUTERS IN EDUCATION (3)
PR: CGS 4010 or CI. Application of computers in education, selection and evaluation of software and hardware, types of CAI, networking, computing resources. Advanced BASIC programming, including random and sequential files, sort routines, advanced graphics.

COUNSELOR EDUCATION
EGC 4001 INTRODUCTION TO GUIDANCE PROCESSES (3)
PR: Upper level standing. An introduction to the role and function of guidance, school psychology, social work and other pupil personnel services. Opportunities for increasing self awareness.

EGC 4053 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION (2)
PR: CI. Study of student personnel services in institutions of higher education. Identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in terms of structure, organization, funding, etc.

EGC 4066 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (3/U only.)

EGC 5101 HUMAN RELATIONS SKILLS IN GUIDANCE (4)
PR: EGC 4001 or CI. Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

SLS 1101 THE UNIVERSITY EXPERIENCE (2)
An extended introduction and orientation to USF. Topics include purposes of higher education, structure and function of USF, overview of the processes of career planning and selecting a major, study skills, and managing out-of-class time.

SLS 2401 CAREER DEVELOPMENT PROCESS (2)
Students will study vocational choice theories and participate in career decision processes. Development of self-awareness and knowledge of career opportunities and requirements necessary for decision making. Available to lower level majors or non-majors.

CURRICULUM AND INSTRUCTION
EDG 1300 INTRODUCTION TO TEACHING (3)
PR: Freshman only or CI. The people with whom teachers work, the types of tasks they perform and the challenges they can anticipate. Observation of teaching at several grade levels.

EDG 4620 CURRICULUM AND INSTRUCTION (3)
An introduction to the field of curriculum and instruction. Emphasis is placed on identifying educational goals and objectives and applying instructional principles.

DISTRIBUTIVE AND MARKETING EDUCATION
DEC 4174 PROGRAM MANAGEMENT OF DISTRIBUTIVE AND MARKETING EDUCATION (3)
The study of the purposes, processes, organization, planning, directing, coordinating and evaluation of Distributive and Marketing Education Cooperative Programs.

DEC 4362 SPECIAL TEACHING METHODS: DISTRIBUTIVE EDUCATION (4)
Methods, techniques, and materials for skill development.

DEC 4382 METHODS OF TEACHING: DISTRIBUTIVE EDUCATION (3)
Methods, techniques, and materials for instruction.

DEC 4905 INDEPENDENT STUDY: DISTRIBUTIVE AND MARKETING 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.)

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

DEC 4936 SENIOR SEMINAR IN DISTRIBUTIVE & MARKETING EDUCATION (2)

DEC 4940 INTERNSHIP: DISTRIBUTIVE & MARKETING EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Distributive and Marketing 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.)

DEC 4941 SUPERVISED FIELD EXPERIENCE: DISTRIBUTIVE EDUCATION (1-6)
PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government offices, social agencies, businesses and industries on site.

DEC 5175 PROGRAM MANAGEMENT: DISTRIBUTIVE EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

DEC 5185 CURRICULUM CONSTRUCTION: DISTRIBUTIVE EDUCATION (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

ELEMENTARY EDUCATION

ARE 4313 ART FOR THE CHILD AND YOU (3)
PR: Admission to College of Education. Art and the intellectual, creative, emotional, and aesthetic growth of children.

EDE 4301 TEACHING METHODS IN THE ELEMENTARY SCHOOL (4)
PR: EDE 4941 and EDE 4620. Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4905 INDEPENDENT STUDY: ELEMENTARY 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.)

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

EDE 4936 SENIOR SEMINAR IN ELEMENTARY EDUCATION (2)

EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION (10)
PR: EDE 4941 and EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school. Concurrent enrollment in EDE 4936. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP LEVEL I (4)
PR: Application for admission to the Elementary or Elementary/Early Childhood programs. Students spend six hours per week in a supervised in-school experience and attend weekly seminar.

Concurrent enrollment in EDE 4620-Elementary section. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL II (6)
PR: EDE 4941. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar.

EEC 2903 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3)
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

EEC 4203 PROGRAMS IN EARLY CHILDHOOD EDUCATION (4)
PR: Admission to College of Education. A study of school programs for children age 3-8. Analysis and evaluation of these programs in the light of the most effective current classroom practices. Observation and participation included.

EEC 4303 CREATIVE EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)
PR: Admission to College of Education. The development of the child's creative expression through art, music, dance, play, and drama; included are the materials, content, and teaching techniques.

EEC 4706 LANGUAGE AND LEARNING IN EARLY CHILDHOOD (3)
PR: Admission to College of Education. The study of the acquisition of language in young children and the development of basic communications skills in the Language Arts Curriculum, infancy through age 8 years.

EEC 4905 INDEPENDENT STUDY: ELEMENTARY EARLY CHILDHOOD 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.)

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

EEC 4936 SENIOR SEMINAR IN ELEMENTARY EARLY CHILDHOOD EDUCATION (2)

EEC 4940 INTERNSHIP: ELEMENTARY EARLY CHILDHOOD EDUCATION (10)
Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school. Concurrent enrollment in EEC 4936. (S/U only.)

EEC 5406 SOCIAL GROWTH IN CHILDHOOD (3)
PR: Admission to College of Education. A study of the principal factors which influence the social development of young children with particular emphasis upon those cultural influences which affect both child development and the educational programs for the young child.

EEC 5705 INTELLECTUAL GROWTH IN CHILDHOOD (3)
Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.

EEC 5926 WORKSHOP IN EARLY CHILDHOOD EDUCATION (3)
PR: Admission to College of Education. Individual problems and innovations related to methods and materials of instruction in the early childhood grades.
HLP 4660 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD (3)
PR: Admission to the College of Education. A study of the importance of movement competency and its contribution to the development of a positive self-concept in children; content and methodology for developing appropriate movement experiences for children; content and methodology for teaching elementary health science.

LAE 4314 LANGUAGE ARTS IN CHILDHOOD EDUCATION (3)
PR: Admission to the College of Education. The exploration of the content, organization and instruction of oral communication and written expression in Childhood Education.

LAE 4414 LITERATURE IN CHILDHOOD EDUCATION (3)
PR: Admission to College of Education. The selection, evaluation and use of fiction, nonfiction and poetry for instructional, informational, and recreational purposes in Childhood Education.

MAE 4310 TEACHING ELEMENTARY SCHOOL MATHEMATICS I (3)
PR: MAE 4310. Methods for teaching informal geometry, measurement, probability and statistics.

MAE 4545 DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (3)
PR: MAE 4310 or equivalent. Presentation and analysis of teaching methods and models appropriate for use with students experiencing learning disabilities in mathematics; supervised conduct of a case study.

MUE 4210 MUSIC FOR THE CHILD (3)
PR: Admission to College of Education. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

RED 4310 READING FOR THE CHILD (3)
PR: Admission to College of Education. Prereading, word recognition, comprehension and basic study skills and various reading approaches and reading interests.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE (3)
PR: Admission to College of Education and completion of General Distribution Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.

SSE 4313 TEACHING ELEMENTARY SCHOOL SOCIAL STUDIES (3)
PR: Admission to College of Education or CI. Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.

ENGLISH EDUCATION

LAE 4335 METHODS OF TEACHING ENGLISH LITERATURE AND READING (3)
PR or CR: EDG 4620. A survey of materials available to adolescent readers plus an overview of organizational strategies for teaching literature and reading.

LAE 4530 READING SKILLS IN ENGLISH EDUCATION (2)

PR: RED 4360 or CC. Methods of dealing with reading problems and application of general reading concepts in English Education. (S/U only.)

LAE 4622 CURRENT TEACHING OF ENGLISH LANGUAGE AND MEDIA (3)
CR: EDG 4620 and LAE 4335. Methods of teaching language and media. Includes current findings on teaching usage, dialect, grammar, and semantics, as well as approaches to media in English.

LAE 4905 INDEPENDENT STUDY: ENGLISH 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.)

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

LAE 4936 SENIOR SEMINAR IN ENGLISH EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

LAE 4940 INTERNSHIP: ENGLISH 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 internship experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH (3)
PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student’s graduate advisor.

FOREIGN LANGUAGE EDUCATION

FLE 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)

FLE 4334 PRACTICUM IN FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: FLE 4333. Research on available literature in the field of foreign language education and the psychology of language learning. Examination of the interdependence of language, culture, and geography. Extended study and practice of the sequential steps of foreign language teaching with emphasis on the audio-lingual approach.

FLE 4936 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

FLE 4940 INTERNSHIP: FOREIGN LANGUAGE 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.)

**FOUNDATIONS EDUCATION**

**EDF 3122 LEARNING AND THE DEVELOPING CHILD**
PR: General Psychology and admission to College of Education. Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of classroom.

**EDF 3214 EDUCATIONAL PSYCHOLOGY**
PR: General Psychology and admission to College of Education. The application of behavioral principles to human behavior in educational institutions, home and community settings. May not be counted for EDF 3214. (For non-education majors only.)

**EDF 3214 HUMAN DEVELOPMENT AND LEARNING**
PR: General Psychology and admission to College of Education. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.

**EDF 3228 BEHAVIOR MODIFICATION TECHNIQUES**
PR: EDF 3214. Special techniques in behavior modification for children with learning difficulties. Minimum of two hours field experience per week required in addition to regular class hours.

**EDF 3542 PHILOSOPHY OF EDUCATION**
PR: Upper level standing. A study of philosophy of education with an emphasis on aspects that are relevant to an understanding of the issues and problems of teaching.

**EDF 3604 SOCIAL FOUNDATIONS OF EDUCATION**
PR: Admission to College of Education. Social, economic and political context within which schools function and the values which provide direction for our schools; the culture as a motivating influence in instruction. Should not be taken concurrently with EDF 3214.

**EDF 3810 (formerly EDF 3710) COMPARATIVE EDUCATION**
PR: Upper level standing. A comparison of contemporary educational systems of selected countries with that of the United States.

**EDF 4131 LEARNING AND THE DEVELOPING ADOLESCENT**
PR: General psychology and admission to College of Education. Adolescence growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

**EDF 4905 INDEPENDENT STUDY:**
EDUCATIONAL FOUNDATIONS (1-4)
PR: CL. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

**EDF 4909 DIRECTED STUDY:**
EDUCATIONAL FOUNDATIONS (1-3)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

**EDF 5136 ADOLESCENCE**
Study of the educational, intellectual, personality, physical, social and vocational factors in adolescence and their importance for school personnel.

**EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES**
(3)
Principles for programming in the several academic subjects.

**EDF 5672 AMERICAN DEMOCRACY AND PUBLIC EDUCATION**
(3)
Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.

**IDS 3115 VALUES AND CHOICE**
An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

**INDUSTRIAL AND TECHNICAL EDUCATION**

**EIA 4360 SPECIAL TEACHING METHODS:**
INDUSTRIAL ARTS (3)
PR: EIV 4360 or CL. Equips Industrial Arts instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.

**EIV 4210 (formerly EVT 4254) PROGRAM MANAGEMENT:**
INDUSTRIAL-TECHNICAL EDUCATION (4)
PR: CL. Planning, organizing, motivating and controlling of the learning environment in Industrial-Technical Education Classroom and Laboratories. Program standards for OSHA, program review, record keeping, and budgeting will be examined.

**EIV 4314 METHODS OF TEACHING:**
DIVERSIFIED COOPERATIVE TRAINING (3)
Methods, techniques, and materials for instruction. This course specializes in Diversified Cooperative Training.

**EIV 4360 (formerly EVT 4365) SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION**
PR: EIV 4360 or CL. Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

**EIV 5315 PROGRAM MANAGEMENT:**
DIVERSIFIED COOPERATIVE TRAINING (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

**EVT 3060 (formerly EVT 3063) THE TEACHER IN THE WORLD OF WORK**
(3)
A study of educational efforts in preparing people for work, the relationship of a job to a man's life style, and the concept of education as a life-long process.

**EVT 4062C (formerly EVT 4061C) TEACHING IN INDUSTRIAL-TECHNICAL EDUCATION**
(1-3)
An overview of the ITE instructor's roles and responsibilities concerning students, the school and the community and a look at the organization of vocational education, liability, and professionalism.

**EVT 4065 HISTORY AND PRINCIPLES OF VOCATIONAL EDUCATION**
(4)
An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.

**EVT 4084C PROFESSIONAL DEVELOPMENT IN INDUSTRIAL TECHNICAL EDUCATION**
(1-3)
Designed for the ITE teachers in forming plans of professional development. Competencies include the development of a personal education philosophy; attributes in creating harmonious school community relationships; and desirable staff and teacher associations.

**EVT 4115 (formerly EVT 4176) CURRICULUM CONSTRUCTION: INDUSTRIAL-TECHNICAL EDUCATION**
PR: EIV 4360 or CL. Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced materials. Open to majors and non-majors.

**EVT 4263 ORGANIZATION AND ADMINISTRATION OF STUDENT VOCATIONAL ORGANIZATIONS**
(1-4)
Includes the organization and administration of the local student vocational organization in industrial, health occupations, business and distributive education.

EVT 4312 (formerly EVT 4311) TEACHING METHODS:
HEALTH OCCUPATIONS (4)
PR: EIV 4360 or CI. Equips health occupations instructors with professional competencies for classroom, laboratory and clinical settings. Includes selection of appropriate methods, planning and delivery of effective demonstrations, use of media and supervision of students in clinical areas.

EVT 4365 (formerly EVT 4364) BASIC TEACHING METHODS IN VOCATIONAL EDUCATION (4)
Examines the role of the vocational instructor in the teaching-learning process; looks at factors that promote and inhibit learning particularly for adults. Reviews a wide variety of instructional approach, techniques and methods; includes selection of techniques for situations.

EVT 4367 ASSESSING STUDENT SKILL IN INDUSTRIAL TECHNICAL EDUCATION (4)
Techniques for assessing student's mastery of skills in industrial/technical education. Focuses on specific competencies including developing and administering performance tests, monitoring student process, and others. Open to majors and non-majors.

EVT 4540 READING SKILLS IN ADULT AND VOCATIONAL EDUCATION (2)
PR: RED 4360, or CR in RED 4360. Students will study reading and communication skills as they relate to their particular content areas in Adult and Vocational-Technical Education. This course, along with RED 4360, satisfies State certification requirement pertaining to secondary reading.

EVT 4815 FACILITY DESIGN AND MANAGEMENT (3)
Design and develop instructional facility floor plans consistent with modern and efficient methods of instruction as well as evaluate existing classrooms, laboratories, and shops. Selection and location of equipment. Review and prepare operational plans for the management of equipment, furniture, tools, and supplies as they relate to effective student learning.

EVT 4905 INDEPENDENT STUDY: INDUSTRIAL-TECHNICAL 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.)

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

EVT 4936 SENIOR SEMINAR IN INDUSTRIAL-TECHNICAL EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

EVT 4940 INTERNSHIP: INDUSTRIAL-TECHNICAL 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 9-12 semester hours. (S/U only.)

EVT 4946 SUPERVISED FIELD EXPERIENCE: INDUSTRIAL-TECHNICAL EDUCATION (1-6)
PR: CI. Planned supervised functions in the area of specialization and co-ordinated with selected schools, government, offices, social agencies, businesses and industries on site. (S/U only.)

EVT 5280 OCCUPATIONAL SAFETY AND HEALTH (OSHA) (3)
Planning and organizing safety and health course content to be included in occupational education programs in Florida. Content to be identified in and selected from Federal Registers, Department of Labor, Occupational Safety and Health Standards.

EVT 5369 (formerly EVT 5366) PREPARATION AND DEVELOPMENT FOR TEACHING (4)
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

EVT 5564 (formerly EVT 5190) SCHOOL COMMUNITY DEVELOPMENT (4)
This course is an approach to identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement and public support.

MATHEMATICS EDUCATION

CGS 4010 COMPUTING DEVICES IN THE EDUCATIONAL PROCESS (3)
PR: 11. Admission to the Department of Content Specializations. This course will explore the use of minicalculators, programmable calculators, and microcomputers. Characteristics of computing devices, flow charting, programming, classroom management techniques, teaching materials, and applications will be discussed.

MAE 4320 TEACHING JUNIOR HIGH SCHOOL MATHEMATICS (3)
PR: 18 semester hours of mathematics or CC. Techniques and materials of instruction in junior high school mathematics topics only.

MAE 4330 TEACHING SENIOR HIGH SCHOOL MATHEMATICS (3)
PR: EDG 4620 or CR in EDG 4620 and admission to teacher education program in mathematics. Techniques and materials of instruction in mathematics.

MAE 4885 READING THE LANGUAGE OF MATHEMATICS (2)
PR or CI: Reading in Secondary Content Areas, Teaching Senior High School Mathematics, Methods of teaching students to read the language of mathematics.

MAE 4905 INDEPENDENT STUDY: MATHEMATICS EDUCATION (1-4)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

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

MAE 4936 SENIOR SEMINAR IN MATHEMATICS EDUCATION (2)

MAE 4940 INTERNSHIP: MATHEMATICS 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.)

MAE 5636C THE UTILIZATION OF LABORATORY TECHNIQUES IN THE TEACHING OF MATHEMATICS (3)
PR: 12 semester hours of mathematics or CC. An examination of a variety of sample laboratory lessons along with methods for creating and evaluating such lessons.

MEASUREMENT AND RESEARCH

EDF 4430 MEASUREMENT FOR TEACHERS (3)
MUSIC EDUCATION

MUE 2090 THEORETICAL BASES OF MUSIC EDUCATION (1)
The course is designed to investigate music education practices in schools. It provides the student with experiences and information early in his academic career which will enable him to determine his commitment to professional music education.

MUE 3421 CHORAL MATERIALS PRACTICUM (1)
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 3422 BAND MATERIALS PRACTICUM (1)
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 3423 ORCHESTRA MATERIALS PRACTICUM (1)
PR: CI. A study of orchestra materials, in a laboratory setting, appropriate for elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3450 BEGINNING WOODWIND TECHNIQUES (1)
PR: Sophomore standing, non-woodwind major. This course introduces the fundamentals of woodwind instrument pedagogy. In addition basic techniques of woodwind performance are taught through the study of clarinet and flute.

MUE 3451 ADVANCED WOODWIND TECHNIQUES (1)
PR: Sophomore standing, woodwind instrument major or MUE 3450. This course develops knowledge and skills dealing with advanced principles of teaching and performing on woodwind instruments.

MUE 3460 BEGINNING BRASS TECHNIQUES (1)
PR: Sophomore standing, non-brass majors. This course introduces the fundamentals of brass wind instrument pedagogy. In addition basic techniques of brass performance are taught through the study of trombone and trumpet.

MUE 3461 ADVANCED BRASS TECHNIQUES (1)
PR: Sophomore standing, brass instrument major or MUE 3460. This course develops knowledge and skills dealing with advanced principles of teaching and performing on all brass instruments.

MUE 4210 MUSIC FOR THE CHILD (3)
PR: Admission to the College of Education. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

MUE 4311 MUSIC IN THE ELEMENTARY SCHOOL (3)
A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4330 CLASSROOM MUSIC IN THE SECONDARY SCHOOL (3)
PR: CI. Development and implementation of methods and techniques for teaching music to the student not participating in secondary school music performing groups.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL (3)

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL (3)

MUE 4352 FOUNDATIONS OF INSTRUMENTAL MUSIC (3)
PR: CI, Junior standing. Introduction to the foundations of instrumental music instruction in the elementary and middle 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 half-time shows, an 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 EDUCATION (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 4941 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 4942 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.)

PHYSICAL EDUCATION-ELECTIVE

HLP 3081 PERSONAL WELLNESS: A LIFETIME COMMITMENT (3)
An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress management, and substance-abuse management.

PEL 1121 GOLF I (2)
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only).

PEL 1341 TENNIS I (2)
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEL 1346 BADMINTON (2)
Progressive experiences in badminton, fundamental skills, strategy, information and participation. (S/U only.)

PEL 2122 GOLF II (2)
Continuation of PEL 1121. Emphasis on course play and refinement of strokes. (S/U only.)
PHYSICAL EDUCATION FOR TEACHERS

PEL 2321 VOLLEYBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)

PEL 2342 TENNIS II (2)
Continuation of PEL 1314L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEL 2441 RACKETBALL (2)
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEL 2511 SOCCER (2)
A course designed to present essential knowledge of the game of soccer. Instruction and practice of basic skills, rules, team play, and conditioning. (S/U only.)

PEL 2621 BASKETBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEM 1201 GYMNASTICS I (2)
Introductory experiences in the various gymnastics events. Opportunities to specialize in areas of personal interests. (S/U only.)

PEM 1461 FOIL FENCING (2)
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2101 SPECIAL CONDITIONING (2)
Varied activities designed to increase the functional ability of the different aspects of physical fitness. (S/U only.)

PEM 2111 INDIVIDUAL PROGRAMMING (2)
Individually prescribed and performed conditioning activities. (S/U only.)

PEM 2116 FIGURE DEVELOPMENT (2)
Varied activities designed to effect changes in body configuration and functional ability. (S/U only.)

PEM 2131 WEIGHT TRAINING (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program. (S/U only.)

PEM 2141 AEROBICS (2)
Introduction to the knowledge and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PEM 2202 GYMNASTICS II (2)
Continuation of PEL 1201. Extended opportunities to master the various gymnastics events. Competition and individual routines. (S/U only.)

PEM 2376 BACKPACKING (2)
Introductory experiences designed to develop the physical skills and the mental attitude necessary to travel safely, efficiently, and considerately in the wilderness setting. (S/U only.)

PEM 2441 KARATE (2)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2930 SELECTED ACTIVITIES (1-2)
Activities offered are selected to reflect student need and faculty interest. May be repeated up to 6 credit hours. (S/U only.)

PEN 1121 SWIMMING I (2)
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety. (S/U only.)

PEN 2113 LIFESAVING (2)
PR: PEN 2172 or equivalent. Knowledge and skills necessary for saving one's life or others in the event of aquatic emergency. ARC certification offered. (S/U only.)

PEN 2172 SWIMMING II (2)
PR: PEN 1121 or equivalent. Continuation of PEN 1121. Special emphasis on development of endurance and efficient stroking. (S/U only.)

PEN 2136 SKIN & SCUBA DIVING (2)
PR: PEN 2172 or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)

PEN 2251 CANOEING (2)
PR: PEN 1121 or equivalent. Development and refinement of the skills necessary for enjoying canoeing. Skills, safety techniques and trips. (S/U only.)

PEQ 3115 WATER SAFETY INSTRUCTION (2)
PR: PEN 2113. Examination of the various swimming strokes leading to identification of appropriate methods and techniques for instructing others. ARC certification offered. (S/U only.)

PET 2330C HUMAN KINESIOLOGY I (2)
An introduction to the structure and function of the skeletal and neuromuscular systems in reference to their support of vigorous human movement. (S/U only.)

PET 2382 INTRODUCTION TO EXERCISE THEORY (2)
An introduction to the basic principles underlying exercise techniques for improving cardiovascular endurance, strength, flexibility, and weight control. Examination and critique of popular fitness programs, fads and fallacies.

PET 3931 SELECTED TOPICS (1-3)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours.

PHYSICAL EDUCATION FOR TEACHERS

HSC 2400 FIRST AID (2)
Meets the American Red Cross certification requirements in standard and advanced first aid.

PEP 4941 WELLNESS INTERNSHIP (15)
PR: CC. Completion of all curriculum requirements. Supervised performance in adult fitness and/or wellness programs. Full semester on-site. Open to Wellness Leadership Physical Education Majors only. (S/U only.)

PEQ 3101 AQUATICS (2)
PR: Red Cross beginning swimmer’s skills or equivalent. Includes analysis of swimming skills, teaching methodology, conducting class activities, and organizing and conducting aquatic programs.

PEQ 3170 AQUATIC EXERCISE (2)
PR: CC. An instructor training course in aquatic exercise. Focuses on teaching aerobic, strength, flexibility, and weight control exercises performed in swimming pools. Open to non-majors.

PET 2000 INTRODUCTION TO PHYSICAL EDUCATION IN TODAY’S SOCIETY (3)
PR: CI. An overview of the field of physical education, including the role of the physical education teacher and non-teaching career options. The role of play, sport, and physical education in today’s society is emphasized and the competencies necessary to careers in physical education. (S/U only.)

PET 3012 PERSONAL/PROFESSIONAL DEVELOPMENT SEMINAR (3)
PR: CC: Identification of personal and professional knowledge, skills, and attitudes necessary for successful professional practice of physical educators. Introduction to career opportunities and the historical, philosophical, and sociological foundations of the profession. Development of a personal-professional development plan. Field work required. Majors only.

PET 3031 MOTOR DEVELOPMENT AND ASSESSMENT (3)
PR: CC. Study of the assessment, evaluation and motor development performance of children and adolescents and application of principles of motor skills acquisition in physical education instruction. Open to non-majors.

PET 3080 SURVEY OF WELLNESS PROGRAM (3)
PR: CC. An analysis of various types of wellness programs in the public and private sector including community-based programs, commercial health and fitness enterprises, government-based programs, corporate-based programs, and hospital health and fitness centers.

PET 3310 KINESIOLOGY (3)
PR: CC. A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psychomotor performance. Open to non-majors.

PET 3351 EXERCISE PHYSIOLOGY I (3)
PR: CC. A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors.

PET 3421 CURRICULUM AND INSTRUCTION IN PHYSICAL EDUCATION (3)
PR: CC. Development of knowledge and skills related to the instructional process of physical education. Preparation of materials and planning instruction.

PET 3422 INSTRUCTIONAL DESIGN AND CONTENT: MOVEMENT EXPERIENCES (3)
PR: CC. This course develops a variety of motor skills and includes the study of systems for analyzing movement. It prepares students to plan and conduct movement experiences in a wide variety of educational settings.

PET 3441 INSTRUCTIONAL DESIGN AND CONTENT: MIDDLE SCHOOL PHYSICAL EDUCATION (3)
PR: CC. The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner.

PET 3640 ADAPTED PHYSICAL EDUCATION (3)
PR: CC. A study of characteristics, programming needs and teaching of physical education for handicapped students.

PET 3799 CAREER DECISION-MAKING AND PROFESSIONAL ETHICS (1)
PR: CC. Teacher certification career decision-making activities. Monitor and continue personal-professional development plan developed in previous semesters. Ethical practices for teachers. Taken concurrently with PET 3943.

PET 3943 PHYSICAL EDUCATION INTERNSHIP: MIDDLE SCHOOL (4)
PR: CC. A part-time internship in middle school physical education. Focus on the relationship of physical education to the needs of the pre- and early adolescent learner, the organization and purpose of the middle school, and application appropriate content and methodologies.

PET 4141 TRENDS AND TASKS - ELEMENTARY PHYSICAL EDUCATION (1)
PR: CC. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters. Taken concurrently with Physical Education Internship: Elementary. Physical Education Majors only.

PET 4142 TRENDS AND TASKS - SECONDARY PHYSICAL EDUCATION (1)
PR: CC. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters. Taken concurrently with Physical Education Internship: Secondary. Physical Education Majors only.

PET 4304 PRINCIPLES AND ISSUES IN COACHING (3)
The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

PET 4353 EXERCISE PHYSIOLOGY II (3)
PR: CC. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes. Open to non-majors.

PET 4384 HEALTH-FITNESS APPRAISAL & EXERCISE PRESCRIPTION (3)
PR: CC. Techniques in conducting health-fitness tests and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Open to non-majors.

PET 4401 ORGANIZATION & ADMINISTRATION OF SECONDARY PHYSICAL EDUCATION PROGRAMS (3)
PR: CC. A study of organizational and administrative procedures for secondary school physical education programs. Includes scheduling, budget, facilities, extra-curricular programs, and the selection and supervision of staff.

PET 4404 ORGANIZATION & ADMINISTRATION OF WELLNESS PROGRAMS (3)
PR: CC. Design and implementation of various types of wellness programs with emphasis on assessment and evaluation management, staffing, participant adherence, program design, budgeting and marketing.

PET 4432 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY (3)
PR: CC. This is the second of a three-course sequence in which students study movement forms and instructional processes suitable for elementary age students.

PET 4433 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY II (3)
This course prepares students to select, plan, conduct complex movement experiences for students K-6.

PET 4442 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION SECONDARY (3)
PR: CC. Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.

PET 4443 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION SECONDARY II (3)
PR: CC. In this course, students are prepared to plan, conduct, and evaluate complex movement experiences in games, dance, gymnastics and physical fitness appropriate for students K-6.

PET 4622 CARE AND PREVENTION OF PHYSICAL INJURIES (2)
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

PET 4905 INDEPENDENT STUDY: PROFESSIONAL PHYSICAL 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.)

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

PET 4933 SENIOR SEMINAR IN SECONDARY EDUCATION: PHYSICAL EDUCATION (3)

PET 4934 SENIOR SEMINAR IN ELEMENTARY PHYSICAL EDUCATION (3)
PR: CC. Synthesis of teacher candidate's course in complete college program. Reflective evaluation of teaching experience. Required concurrently with Associate Teaching in Physical Education: Elementary. Physical Education Majors only.

PET 4942 PHYSICAL EDUCATION INTERNSHIP: ELEMENTARY (4)
PR: CC. A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies. (S/U only.)

PET 4944 PHYSICAL EDUCATION INTERNSHIP: SECONDARY (4)
PR: CC. A part-time internship in high school level physical education with focus on the relationship of physical education to the needs of the early adolescent and the implementation of appropriate content and methodology. (S/U only.)

PET 4946 ASSOCIATE TEACHING PHYSICAL EDUCATION: ELEMENTARY (12)
PR: CC. A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education. May not be repeated. (S/U only.)

PET 4947 ASSOCIATE TEACHING PHYSICAL EDUCATION: SECONDARY (12)
PR: CC. A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students. (S/U only.)

PET 4947 ATHLETIC TRAINING PRACTICUM (2)
PR: PET 4622. A ten-week training room practicum on skills in preventive strapping and review first aid and rehabilitation techniques, followed by a five-week practicum with local high schools or professional teams.

Enrollment in these courses requires admission to the Physical Education program.

READING EDUCATION
RED 4310 READING FOR THE CHILD (3)
PR: Admission to college of Education. Prereading, word recognition, comprehension and basic study skills and various reading approaches and reading interests.

RED 4337 READING IN THE SECONDARY SCHOOL (3)
Basic course in Reading for Secondary school personnel.

RED 4360 READING IN SECONDARY CONTENT AREAS (2)
Provides basic instruction on phonics, word recognition, readability, interests, corrective procedures, reading behaviors, comprehension, etc. Offered only in conjunction with special content reading courses.

RED 4515 CORRECTIVE READING FOR THE CHILD (3)
PR: RED 4310 or equivalent. Procedures for meeting individual differences through diagnosis of needs, differentiated instruction, selected use of materials, and classroom organization.

READING EDUCATION 183

SCHOOL OF LIBRARY AND INFORMATION SCIENCE
LIS 2001 USE OF THE LIBRARY (2)
An introduction to the resources of the University of South Florida Library. Emphasis will be placed on library materials germane to the course work of the undergraduate. (S/U only.)

LIS 4302 PRODUCING AUDIOVISUAL MATERIALS (2)
PR: Upper level standing or CC. Basic skills in designing and preparing audiovisual materials for wide variety of instructional and communicative purposes.

LIS 4503 INSTRUCTIONAL TECHNOLOGY (3)
PR: Upper level standing or CC. Provides basic skills in selecting, utilizing, presenting, and evaluating: 1) various types of audiovisual media and 2) computers and computer software for use with students in a variety of classroom and learning situations.

LIS 5315 INSTRUCTIONAL GRAPHICS (3)
PR: CC. Theoretical aspects, planning and production of instructional graphic material. The Theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5321 PREPARING SINGLE CONCEPT FILMS (3)
PR: CC. Techniques and procedures in the preparation of educational films. Ascertainment concepts, script writing, graphics, lighting, filming, editing.

LIS 5333 TV IN SCHOOL AND LIBRARIES (3)
Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5404 FOUNDATIONS OF LIBRARIANSHIP (3)
Overview of the introduction to the study of library service; history, organization, specialized literature; outstanding leaders; current trends, issues, and problems. Place of the library in society with its contributions to that society.

LIS 5434 COMMUNITY COLLEGE LIBRARIANSHIP (3)
Introduction to the community college concept, examination of the basic elements, functions, purposes, directions, programs, etc. inherent in both the community college and the library resources center which serves it.

LIS 5937 SELECTED TOPICS IN LIBRARY STUDIES (1-4)
PR: CC. Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

SCIENCE EDUCATION
SCE 4305 COMMUNICATION SKILLS IN THE SCIENCE CLASSROOM (2)
PR: RED 4360 or CR in RED 4360. Reading and communication skills important in understanding scientific literature and communicating findings to others.

SCE 4320 TEACHING METHODS FOR JUNIOR HIGH SCHOOL SCIENCE (3)
PR: Completion of 25 semester hours of Science or CC. Survey techniques and materials unique to science, grades 7-9. Not designed for high school certification purposes.

SCE 4330 TEACHING METHODS IN THE SECONDARY SCHOOL-SCIENCES (3)
PR: Completion of 26 hours in approved science areas, EDG 4620 (or CR), and CC. Techniques and materials of instruction in secondary school sciences.

SCE 4630 NEW TRENDS IN TEACHING THE PHYSICAL SCIENCES (3)
Physical Science Study Committee Physics, Chemical Education Materials Study, and other new approaches to the teaching of the
physical sciences. Recommended for teachers of Physics, Chemistry, and Earth Sciences.

**SCE 4905 INDEPENDENT STUDY: SCIENCE EDUCATION**
PR: Cl. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

**SCE 4936 SENIOR SEMINAR IN SCIENCE EDUCATION**
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

**SCE 4940 INTERNSHIP: SCIENCE EDUCATION**
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.)

**SCE 4937 SELECTED TOPICS IN SCIENCE EDUCATION**
May be repeated when topics are not duplicated.

### SOCIAL SCIENCE EDUCATION

**SSE 4333 INTRODUCTION TO TEACHING SECONDARY SOCIAL SCIENCE EDUCATION**
This introductory course is concerned with the identification of the major content areas selected from the various social sciences. Topics related to selecting, organizing, and sequencing teaching materials and methods related to the unique problems of teaching teenage youth are studied.

**SSE 4334 SECONDARY SOCIAL SCIENCE EDUCATION TEACHING METHODS**
PR: SSE 4333. This course is designed to identify and study selected techniques and strategies used in social science education instruction. Emphasis is placed upon the learner’s ability to demonstrate skill in selecting methods, techniques, materials, and evaluative forms. Field work is a requirement.

**SSE 4640 COMMUNICATION SKILLS IN THE SOCIAL STUDIES**
PR: CC. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

**SSE 4670 ECONOMICS USA: PRINCIPLES OF ECONOMICS FOR TEACHERS**
A television course focusing on content and teaching methodology related to micro/macro economic principles. (S/U only.)

**SSE 4936 SENIOR SEMINAR IN SOCIAL SCIENCE EDUCATION**
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

**SSE 4940 INTERNSHIP: SOCIAL SCIENCE EDUCATION**
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.)

### SPECIAL EDUCATION

**EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS**
PR: EEX 3010, or equivalent or Cl. Survey of emotional and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

**EED 4321 EDUCATIONAL PROCEDURES FOR STUDENTS WITH BEHAVIOR DISORDERS**
PR: EEX 3010, EED 4011, or equivalent or Cl. Methods, materials and instructional techniques; development and implementation of individualized education programs; classroom organization and curriculum for students with behavior disorders.

**EED 4905 INDEPENDENT STUDY: BEHAVIOR DISORDERS**
PR: Cl. Specialized independent study determined by the student’s needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.)

**EED 4909 DIRECTED STUDY: BEHAVIOR DISORDERS**
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS**
PR: Cl. Field experience in classroom management, behavior modification, precision teaching, and educational programming in behavior disorders. (S/U only.) Repeatable up to 6 credit hours.

**EEX 3010 INTRODUCTION TO SPECIAL EDUCATION**

**EEX 4070 INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM**
Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of “mainstreamed” exceptional students. Concurrent field experience projects are included. No credit for department majors.

**EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL STUDENTS**
PR: EDF 3214, EEX 3010, EMR 3011, EED 4011, or ELD 4011, and an Exceptional Child Education major. Introduction to and familiarization with formal and informal techniques used to measure and evaluate all exceptional students. The interpretation of information so derived for utilization in educational programming and individualization of instruction. Lec.-Lab.

**EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT**
PR: EEX 3010 or equivalent or Cl. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs, and community resources. Practicum/field experience linkage.

**EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL STUDENT EDUCATION**
PR: Cl. Specialized independent study determined by the student’s needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.)

**EEX 4909 DIRECTED STUDY: EXCEPTIONAL STUDENT EDUCATION**
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class. Repeatable up to 3 credit hours.

**EEX 4936 SENIOR SEMINAR IN EXCEPTIONAL STUDENT EDUCATION**
One full semester of internship in an accredited 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.)

EEX 5705 SEMINAR IN PRESCHOOL HANDICAPPED
PR: Cl. Seminar intended to familiarize the education student with the wide range of needs and services of the preschool handicapped child and their families and how they coordinate with educational services. May be repeated up to 6 credit hours.

EEL 4901 UNDERGRADUATE SUPERVISED PRACTICUM IN GIFTED STUDENT EDUCATION (1-6)
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized project.

EEL 5001 NATURE AND NEEDS OF THE GIFTED (3)
Characteristics and educational needs of gifted children and youth. Emphasis is on five types of giftedness as defined by National Department of Education (1) intellectual giftedness, (2) specific academic aptitude, (3) visual and performing arts, (4) leadership, and (5) kinesthetic.

EEL 5325 CREATIVE PROBLEM SOLVING FOR THE CHILD (3)
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

EELD 5101 INTRODUCTION TO SPECIFIC LEARNING DISABILITIES (3)
PR: EEX 3010 or Cl. Characteristics, needs and abilities of children with specific learning disabilities. Emphasis is on theories, issues, trends, and philosophy of problems for such children.

EELD 5110 EDUCATIONAL PROCEDURES FOR SPECIFIC LEARNING DISABILITIES (3)
PR: EELD 4111, EEX 4221, or Cl. Curriculum organization, materials selection/design based on diagnostic findings for students with specific learning disabilities.

EELD 4905 INDEPENDENT STUDY: SPECIFIC LEARNING DISABILITIES (1-3)
PR: Cl. Specialized independent study determined by student’s needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.)

EELD 4909 DIRECTED STUDY: SPECIFIC LEARNING DISABILITIES (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EELD 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN SPECIFIC LEARNING DISABILITIES (1-6)
PR: EEX 3010, EELD 4111, EELD 4110 and major in Specific Learning Disabilities. Supervised practicum experiences in classes for children with specific learning disabilities. Repeatable up to a total of 6 hours. (S/U only.)

EMR 3011 INTRODUCTION TO MENTAL RETARDATION (3)
PR: EEX 3010. Introduction to the classification, diagnosis, characteristics, and treatment of the mentally retarded.

EMR 4230 EDUCATING THE SEVERELY/PROFOUNDLY HANDICAPPED (3)
PR: EMR 3011 or Cl. Must be taken concurrently with EMR 3800. Emphasis on educational methods and materials for teaching the severely/profoundly handicapped. Practicum/field experience linkage.

EMR 4310 EDUCATIONAL PROCEDURES FOR ELEMENTARY AGE EDUCABLE MENTALLY RETARDED CHILDREN (3)
PR: EMR 3011, RED 4310, EMR 4941 either previously or concurrently. Special class organization, curriculum development, procedures and materials for elementary aged educable mentally retarded children.

EMR 4905 INDEPENDENT STUDY: MENTAL RETARDATION (1-3)
PR: Cl. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

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

EMR 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION (1-6)
PR: EMR 3011 and major in Mental Retardation. Supervised Practicum experiences in the educational, social and vocational programming for mentally retarded individuals. A one hour per week seminar is required concurrently. Repeatable up to a total of 6 hours credit. (S/U only.)

EPH 5501 ADVANCED THEORIES IN MOTOR AND PHYSICAL DISABILITIES (3)
PR: EEX 3010 or Cl. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

EPH 5531 EDUCATIONAL STRATEGIES FOR PHYSICALLY AND MULTITHANICAPPED STUDENTS (3)
PR: EEP 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

EPY 5511 THE VISUALLY HANDICAPPED IN THE CLASSROOM (3)
PR: EEX 3010 or Cl. The visually handicapped in the classroom, structure, hygiene and educational implications.

SPEECH COMMUNICATION-ENGLISH EDUCATION

SED 4335 METHODS OF TEACHING SPEECH COMMUNICATION (3)
PR: 14 semester hours in Speech/Communication or Cl. Investigation of curricular program in Speech Communication, including courses, curriculum guides and preparation of units and lessons; determination of objects and teaching strategies; and problems of teachers and completion of course and C grade required for recommendation for internship.

SED 4371 DIRECTING SPEECH ACTIVITIES IN THE SECONDARY SCHOOL (3)
PR: 10 hours of Speech Communication courses or Cl. Coaching and directing cocurricular activities in discussion, debate, oratory, theatre, oral interpretation, and extemporaneous speaking. Planning and supervision of tournaments, contests, and festivals. Observations required.

SED 4374 READING IN SPEECH COMMUNICATION INSTRUCTION (2)
PR: Cl. Strategies and materials for teaching oral and silent reading in speech and theatre classes at the secondary school level.

SED 4904 SENIOR SEMINAR IN SPEECH COMMUNICATION-ENGLISH EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

SED 4940 INTERNSHIP: SPEECH COMMUNICATION-ENGLISH EDUCATION (1-12)
One full semester of internship in 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.)
COLLEGE OF ENGINEERING

EGN 3343 THERMODYNAMICS I (3)

EGN 3331L MECHANICS

EGN 3331 MECHANICS

EGN 3313 STATICS (3)

Faculty:

Professors:

Distinguished Professor and Dean Emeritus:


BASIC AND INTERDISCIPLINARY ENGINEERING

EGN 1002 ENGINEERING ORIENTATION (0)

The role of engineering in society, characteristics of different fields of engineering, required preparation for engineering careers, techniques and approaches used by engineers in their profession. (S/U only.)

EGN 1115L INTRODUCTION TO DESIGN GRAPHICS (3)

An introduction to the basic principles of design engineering. The course will include the graphic projective systems used in engineering drawing and design. Methods of graphic communication and graphic analysis of engineering design problems will be investigated.

EGN 2200 ENGINEERING WITH COMPUTERS (2)

Fundamental concepts in engineering and computer applications. Examples chosen from various areas of engineering to illustrate design modelling and analysis with computer assistance. Some topics involve laboratory.

EGN 2210 FORTRAN FOR ENGINEERS (PR: MAC 3281 FORTRAN programming for engineers. Solving engineering type problems using the computer; introduction to programming algorithms used by the practicing engineer.

EGN 3313 STATICS (3)


EGN 3321 DYNAMICS (3)

PR: EGN 3313. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.

EGN 3331 MECHANICS OF MATERIALS (3)

PR: EGN 3313. Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.

EGN 3331L MECHANICS OF MATERIALS LABORATORY (1)


EGN 3343 THERMODYNAMICS I (3)

PR: PHY 3049. Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real sub-
stances. Applications: power production and refrigeration, phase equilibria.

EGN 3354C BASIC FLUID MECHANICS (3)

PR: EGN 3313. Fundamental and experimental concepts in ideal and viscous fluid theory; momentum and energy consideration, introduction to hydraulics, pipe flow. Lecture.

EGN 3365L MATERIALS ENGINEERING I (3)

PR: CHM 2046, EGN 3313. Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.

EGN 3373 INTRODUCTION TO ELECTRICAL SYSTEMS I (3)


EGN 3374 INTRODUCTION TO ELECTRICAL SYSTEMS II (3)

PR: EGN 3373. Continuation of EGN 3373.

EGN 3375 INTRODUCTION TO ELECTRICAL SYSTEMS III (3)

PR: EGN 3373. Continuation of EGN 3373 or EGN 3374.

EGN 3433L SYSTEM DYNAMICS (3)

PR: PHY 3049, EGN 4450. Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical method; use of computers in dynamic systems.

EGN 3443 ENGINEERING STATISTICS I (3)

PR: MAC 3283. An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.

EGN 3613 ENGINEERING ECONOMY I (3)

A study in analyzing the economic limitations imposed on engineering activities using basic models which consider the time value of money.

EGN 4355 COMPRESSIBLE FLOW (3)

PR: EGN 3354C. Fundamental and experimental concepts in compressible flow theory of fluids.

EGN 4366 MATERIALS ENGINEERING II (3)

PR: MAC 3283. Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to ceramic and polymeric materials.


EGN 4450 INTRODUCTION OF LINEAR SYSTEMS (2)

PR: MAP 4302. Study and application of matrix algebra, differential equations and calculus of finite differences.

EGN 4905 INDEPENDENT STUDY (1-5)

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

EGN 4933 SPECIAL TOPICS (1-5)

New technical topics of general interest on an intermediate or experimental basis. May be repeated to a total of 10 credit hours.

EGN 4935 PROFESSIONAL ENGINEERING SEMINAR I (1-5)

PR: CL. A lecture-discussion seminar on modern trends in the engineering profession.

EGN 5422 ENGINEERING ANALYSIS II (3)

CHEMICAL ENGINEERING

ECH 4234 MASS TRANSFER (3)
PR: EMC 4118. Study and applications of molecular and turbulent diffusion in fluids, diffusion in solids, mass transfer coefficients and interphase mass transfer. Selection of humidification and absorption equipment.

ECH 4413 SEPARATION PROCESSES DESIGN (3)

ECH 4415C REACTING SYSTEMS (3)
PR: ECH 4413. Equilibria and rate phenomena in reacting systems. Description of homogeneous chemical reactors for process design and control.

ECH 4615 PLANT DESIGN AND ECONOMICS (3)
PR: ECH 4413, ECH 4415 or CI. Methods of cost estimation and profitability measures. Analysis and synthesis of optimal chemical processing routes. Design of chemical process equipment. Introduction to computer-aided design. Case studies.

EMC 3103 THERMODYNAMICS II (4)
PR: EGN 3343. Mass and energy balances on steady and unsteady state systems with and without chemical reactions. Combustion processes, power and refrigeration cycles.

EMC 3117 TRANSPORT PROCESSES I (3)
PR: EGN 3343. Principles of momentum, and heat transfer. Boundary layer theory and pipe flow. Emphasis given to pumping and metering of compressible and incompressible fluids. Selection of proper fluid handling equipment to satisfy realistic process demands.

EMC 3301 INSTRUMENT SYSTEMS (4)

EMC 3303 CHEMICAL AND MECHANICAL ENGINEERING LABORATORY I (2)

EMC 4104 PHASE & CHEMICAL EQUILIBRIA (3)
PR: EMC 3103 or CHM 4410. Correlation of Thermodynamics properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation process and reactor design.

EMC 4112 ELECTRONIC EQUIPMENT COOLING (2)
PR: EGN 3374 or CI. Analysis of extended surfaces. Printed circuit board thermal analysis. Free and forced convection as applied to electrical and electronic components. Thermo-electric cooling and performance of cold plate heat exchangers.

EMC 4118 TRANSPORT PROCESSES II (3)

EMC 4311L CONTROLS LABORATORY (1)
PR: EGN 3343, CR: EMC 4314. Familiarization with and performance testing of automatic control systems.

EMC 4314 AUTOMATIC CONTROLS I (3)
PR: EGN 3343, EMC 3103, EMC 4118; CR: EMC 4411. Analysis of devices for measurement and control and factors affecting process dynamics. Block diagram representation of control systems. Modes of control for single loops and stability requirements.

EMC 4411 COMPUTER SIMULATION I (2)
PR: EGN 3343. The use of computers to study the dynamic behavior of chemical and mechanical engineering processes.

EMC 4522L CHEMICAL AND MECHANICAL ENGINEERING LABORATORY II (2)
PR: EMC 3303L. Continuation of EMC 3303L with emphasis on material and energy balances of chemical and mechanical systems and processes. Lec.-lab. The Team-Project-Time Approach.

EMC 4905 INDEPENDENT STUDY (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours.

EMC 4930 SPECIAL TOPICS IN CHEMICAL AND MECHANICAL ENGINEERING I (1-4)
PR: CC.

EMC 4931 SPECIAL TOPICS IN CHEMICAL AND MECHANICAL ENGINEERING II (1-4)
PR: CC.

EMC 5107 INDUSTRIAL ENERGY CONSERVATION (3)

EMC 5115 PROCESS HEAT TRANSFER (3)
PR: EMC 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 5191C HEAT TRANSFER PROJECTS (1-4)
PR: CI. Industrial design projects in the heat transfer field. Varies each term. May be repeated once for credit.

EMC 5315 MACHINE CONTROL SYSTEMS (3)
PR: EMC 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 5510 MOTOR SELECTION AND CONTROL (3)
PR: EGN 3373, EGN 3433. Standard electrical voltages; power wiring in industrial plants; NEMA motor designs, techniques for estimating motor starting times and temperature rise; motor selection; starting and operating safety interlocks; conventional motor starting and control systems; direct digital (programmable) controls; electrical code requirements for conductors and protective devices.

EMC 5930 SPECIAL TOPICS III (1-4)
PR: CI.

EMC 5931 SPECIAL TOPICS IV (1-4)
PR: CC.

CIVIL ENGINEERING AND MECHANICS

CEG 4011 SOIL MECHANICS I (3)
PR: EGN 3354. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.
CEG 4012 SOIL MECHANICS II (3)
PR: CEG 4011. Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered.

CEG 4011 GEOTECHNICAL DESIGN (2)
PR: CEG 4011. Design of geotechnical systems including bases, foundations, embankments, and dams.

CEG 5115 FOUNDATION ENGINEERING (3)
PR: CEG 4011 or CI. Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.

CES 3102 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 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 4141 MATRIX STRUCTURAL ANALYSIS (3)

CES 4208 STRUCTURAL DYNAMICS (3)
PR: CES 3102, EGN 4430. Behavior of structural components and systems when subjected to periodic dynamic loads.

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

CES 4561 COMPUTER AIDED STRUCTURAL DESIGN (2)
PR: CES 4141. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CES 4561 FLUID SYSTEMS DESIGN (2)
PR: EGM 4816. Practical applications and design of systems using the principles of fluid mechanics. Various topics.

CES 4605 CONCEPTS OF STEEL DESIGN (3)
PR: CES 3102. Introduction to steel design and AISC Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.

CES 4618 STRUCTURAL DESIGN STEEL (2)
PR: CES 4605. 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 4702 CONCEPTS OF CONCRETE DESIGN (3)
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for Reinforced Concrete: Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4704 STRUCTURAL DESIGN-CONCRETE (2)

CES 4820C TIMBER AND MASONRY DESIGN (4)
PR: CEG 4001, CES 4605, CES 4702. Fundamentals of timber design including beams, columns, connections and laminated reference to bridge design. Introduction to masonry design.

CGN 3021L CIVIL ENGINEERING LABORATORY (1)
PR: CES 3102, EGN 3331, EGN 3354C, EGN 3365. A laboratory experience in departmental facilities including the subject areas of structures, materials, fluids, transportation, soils, engineering mechanics, environmental engineering, and computer assisted data acquisition.

CGN 3801 DESIGN AND PRACTICES (2)
PR: EGN 3354C, EGN 3365L, EGN 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.

CGN 4122C ENGINEERING CONTRACTS, SPECIFICATIONS AND ETHICS (3)
Focus on engineering responsibilities in the technical aspects of preparing contracts and specifications. Objectives are to teach the student their legal and ethical responsibilities in the preparation of contracts and specifications. Make the student aware of technical problems in the preparation of specification: bid documents and contracts. Emphasis of ethics of engineer-client agreements.

CGN 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.)

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

CGN 4914 SENIOR PROJECT (2)
PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

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

CGN 5933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS (1-5)
PR: CI. New technical topics of interest to civil engineering students. May be repeated up to 6 credit hours.

EAS 4121 HYDRO AND AEROMECHANICS (3)
PR: EGN 3354, MAP 4302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

EAS 5100 AERODYNAMICS (3)
PR: EGN 4355, and CI. Fundamentals of aerodynamic flow and flight including potential theory, circulatory theory, viscosity considerations, wing theory and design.

ECI 5335L LABORATORY TESTING FOR GEOTECHNICAL ENGINEERS (3)
PR: CEG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

EES 5215 WATER QUALITY FOR ENGINEERS I (3)
PR: CI. An introduction to the form, structure, and chemical activities of the important processes which are essential to treatment of domestic, and industrial wastewater.

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

EGM 5562 MECHANICS OF COMPOSITE MATERIALS (3)
PR: CES 3102. Physical and mathematical mode is for composites. Response to thermal, electrical and mechanical loading. Special composite systems and shapes, filamentary plates, shells, isotensoid
genetics, and concrete and masonry.

EMI 4303 THERMODYNAMICS OF MATERIALS (3)
PR: EGN 3365. Principles of Chemical Thermodynamics as applied to the interactions of materials with various gaseous, aqueous and solid phase environments.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMA 4324</td>
<td>CORROSION OF ENGINEERING MATERIALS I</td>
<td>3</td>
</tr>
<tr>
<td>EMA 4325</td>
<td>CORROSION CONTROL SYSTEM DESIGN</td>
<td>2</td>
</tr>
<tr>
<td>ENV 4404</td>
<td>PROCESSES IN MATERIALS ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4703</td>
<td>FAILURE ANALYSIS AND PREVENTION</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4704</td>
<td>SELECTION AND APPLICATION OF ENGINEERING MATERIALS</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4011</td>
<td>UNIT OPERATIONS AND PROCESSES LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>ENV 4012</td>
<td>ENVIRONMENTAL UNIT PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4014</td>
<td>ENVIRONMENTAL UNIT OPERATIONS</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4402</td>
<td>ENVIRONMENTAL ENGINEERING LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>ENV 4417</td>
<td>WATER QUALITY AND TREATMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

**PR: EGM 4816. An introduction to municipal water supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENV 4432</td>
<td>WATER SYSTEMS DESIGN</td>
<td>2</td>
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<tr>
<td>ENV 4504</td>
<td>WASTE WATER SYSTEMS DESIGN</td>
<td>2</td>
</tr>
<tr>
<td>ENV 4622</td>
<td>WATER RESOURCES ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>ENV 5127</td>
<td>AIR RESOURCE MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>ENV 5357</td>
<td>SOLID AND HAZARDOUS WASTE CONTROL</td>
<td>3</td>
</tr>
<tr>
<td>ENV 5439</td>
<td>URBAN WATER TREATMENT THEORY AND DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ENV 5539</td>
<td>URBAN WASTEWATER TREATMENT THEORY AND DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ENV 5614</td>
<td>ENVIRONMENTAL RISK ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>SUR 3140C</td>
<td>ENGINEERING LAND SURVEYING</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4004</td>
<td>TRANSPORTATION ENGINEERING I</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4005</td>
<td>TRANSPORTATION ENGINEERING II</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4821</td>
<td>TRANSPORTATION SYSTEMS DESIGN</td>
<td>3</td>
</tr>
</tbody>
</table>

**COMPUTER SCIENCE AND ENGINEERING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5600</td>
<td>INTRODUCTION TO ARTIFICIAL INTELLIGENCE</td>
<td>3</td>
</tr>
</tbody>
</table>

**CAP: EEL 4851C. Basic concepts, tools and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, problem solving strategies, etc.**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5690</td>
<td>FUNCTIONAL PROGRAMMING LANGUAGES</td>
<td>COP 4020</td>
<td>3</td>
<td>The properties of functional and applicative languages; comparison with conventional languages, features and examples of applicable languages, LISP, KRC AND FORTH. Implications to computer architecture.</td>
</tr>
<tr>
<td>CDA 4100</td>
<td>COMPUTER ORGANIZATION AND ARCHITECTURE</td>
<td>EEL 4705, or CC CR; CDA 4103, 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 operation system functions.</td>
<td></td>
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</tr>
<tr>
<td>CDA 4103</td>
<td>MINICOMPUTER LABORATORY</td>
<td>CDA 4100, Minicomputer organization and programming.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CDA 4201</td>
<td>SEQUENTIAL CIRCUITS</td>
<td>EEL 4705 Digital circuits with feedback. Synthesis of clocked mode sequential circuits. Fundamental mode circuits. Design with LSI and MSI circuits.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CDA 5400</td>
<td>MODELING COMPUTER SYSTEM PERFORMANCE I</td>
<td>Knowledge of basic calculus and probability theory. Ability to program computers in a higher level language. Development of models based on queueing theory for evaluation of computer system performance. Analysis of open and closed network of queues. Operational analysis. Asymptotic bounds analysis.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CDA 5401</td>
<td>MODELING COMPUTER SYSTEM PERFORMANCE II</td>
<td>Semester I course. Continuation of performance Models I. Emphasis on applications. Approximation techniques. Practical limitations. Numerical accuracy and stability. Students will develop a practical modeling program and explore its use.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CGS 2062</td>
<td>COMPUTERS AND SOCIETY -6A</td>
<td></td>
<td>3</td>
<td>This computer literacy course covers the fundamentals of hardware, software, and programming languages, presents a broad overview of data processing concepts, problems and applications for students with little or no computing background. (For non-engineering majors only.)</td>
</tr>
<tr>
<td>CIS 4321</td>
<td>DATA PROCESSING APPLICATIONS</td>
<td>EEL 4850C, EEL 4851C. An introduction to principles of information processing and applications. Fundamentals of systems for management and control.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CIS 4610</td>
<td>INFORMATION ENGINEERING AND APPLIED SYSTEMS TECHNOLOGIES</td>
<td>COP 4400</td>
<td>3</td>
<td>The principles of information engineering using current and emerging computer systems technologies and information theory will be presented and applied. This would include pc main frame links, local-area/wide-area networks, advanced generation integrated software facilities and artificial intelligence/knowledge based systems.</td>
</tr>
<tr>
<td>CIS 4900</td>
<td>INDEPENDENT STUDY IN COMPUTER SCIENCE</td>
<td>CI Specialized independent study determined by the needs and interests of the student. May be repeated up to 10 credit hours. (S/U only.)</td>
<td>1-5</td>
<td></td>
</tr>
<tr>
<td>CIS 4910</td>
<td>COMPUTER SCIENCE PROJECT</td>
<td>COP 4400 Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CIS 4930</td>
<td>SPECIAL TOPICS IN COMPUTER SCIENCE I</td>
<td>CC</td>
<td>1-4</td>
<td></td>
</tr>
<tr>
<td>CIS 4935</td>
<td>COMPUTER SCIENCE AND ENGINEERING SEMINAR</td>
<td>CC This is a seminar course for majors in Computer Science and Engineering. May be repeated up to 4 credit hours.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COP 2170</td>
<td>PROGRAMMING IN BASIC (CAI)</td>
<td>Lab course in theory and applications of BASIC interactive programming language using a minicomputer and CAI instruction.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>COP 3000L</td>
<td>COMPUTER SCIENCE LABORATORY</td>
<td>COP 3002. Laboratory for implementation of algorithms in a general purpose computer language.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 3002</td>
<td>INTRODUCTION TO COMPUTER SCIENCE</td>
<td>COP 3004. Introduction to the concepts of algorithmic formulation of problems for computer solution and the general abstract operations used in these formulations.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 3350</td>
<td>PROGRAMMING IN APL (CAI)</td>
<td>MAC 1104, MAC 1114. Laboratory course in fundamental theory and applications of APL programming language using a minicomputer and CAI learning technique.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COP 4010</td>
<td>DATA PROCESSING APPLICATIONS</td>
<td>EEL 4850C, EEL 4851C. An introduction to principles of information processing and applications. Fundamentals of systems for management and control.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 4020</td>
<td>PROGRAMMING LANGUAGES</td>
<td>EEL 4851C and COP 4400. An introduction to programming languages, survey of language types and design of translators and interpreters.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 4025</td>
<td>COMPARISON OF PROGRAMMING LANGUAGES</td>
<td>EEL 4850C, EEL 4851C. A comparative study of procedural and nonprocedural computer languages, emphasizing the fundamental differences in information binding, string and data structures manipulation, control and I/O structures in different languages.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 4400</td>
<td>COMPUTER SYSTEMS</td>
<td>COP 3002, COP 3000L and MAC 3283 or CC. Principles of computer organization, machine and assembly language programming.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 4600</td>
<td>INTRODUCTION TO SYSTEMS PROGRAMMING</td>
<td>EEL 4851C, COP 4400. Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COP 5010</td>
<td>TOPICS IN COMPUTERS AND PROGRAMMING</td>
<td>CC Survey of topics in machine organization systems programming, and data structures.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>COT 3100</td>
<td>INTRODUCTION TO DISCRETE STRUCTURES</td>
<td>MAC 3281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COT 4210</td>
<td>INTRODUCTION TO AUTOMATA THEORY AND FORMAL LANGUAGES</td>
<td>EEL 4851C, COT 3100, or CC. Introduction to the theory and application of various types of computing devices and the languages they recognize.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COT 4400</td>
<td>ANALYSIS OF ALGORITHMS</td>
<td>EEL 4851C and COT 3100. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EEL 4705</td>
<td>LOGIC DESIGN</td>
<td>EGN 3373, CR: EEL 4705L or CC; for CS &amp; E students CR or COP 3002. Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EEL 4705L</td>
<td>LOGIC LABORATORY</td>
<td>EEL 4705.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EEL 4706</td>
<td>TESTING AND FAULT TOLERANCE IN DIGITAL SYSTEMS</td>
<td>EEL 4705.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
PR: COP 4400, CDA 4201, or CC. Test generation for combination- 
and sequential digital circuits, fault analysis and diagnosis. 
Methods for reliability improvement through fault tolerant and tes-
table circuit design. Introduction to software reliability.

EEL 4743L MICROPROCESSOR LABORATORY (1)
CR: EEL 4757. Laboratory for Microprocessor use and evaluation.

EEL 4757 MICROPROCESSOR PRINCIPLES 
AND APPLICATIONS (3)
PR: EEL 4705 and EEL 4705L. CR: EEL 4743L. Functional 
Description, Arithmetic and Logic capabilities, Contro and Timing. 
Interrupts and priority systems. Software design and documenta-
tion. Distributed function processing.

EEL 4748 MICROPROCESSOR-BASED SYSTEM 
DESIGN AND APPLICATION (3)
PR: EEL 4757, EEL 4743L. Study of techniques for design of 
microprocessor-based systems used in various applications. In-
cludes a project on development of an experimental application sys-
tem.

EEL 4860C PROGRAMMING METHODOLOGY (3)
PR: Senior standing in Computer Science or CC: COP 3510. 
Methods of designing and developing effective and efficient com-
tputer programs. Top-down design, structured programming, debug-
ging and program analysis are addressed.

EEL 4851C DATA STRUCTURES (3)
PR: COP 3510. Fundamentals of data organization for purposes of 
program efficiency, clarity and simplicity will be addressed.

EEL 4852C DATA BASE SYSTEMS (3)
PR: COP 4400 and EEL 4851C. Fundamentals of data base 
management systems. CODASYL, network, hierarchical, and rela-
tional data base systems are analyzed, and typical applications are 
presented.

EEL 4781C DISTRIBUTED PROCESSING 
AND COMPUTER NETWORKS (3)
PR: COP 4620, CDA 4101. Design and analysis of distributed 
processing systems. Covers communication hardware and software, 
network operating systems, and reliability enhancement techniques.

EEL 5771 INTRODUCTION TO COMPUTER 
GRAPHICS I (3)
PR: CC. An introduction to the evolution of computer graphics in-
cluding point-plotting, line drawing, two-dimensional transforma-
tions and graphics software packages.

ELECTRICAL ENGINEERING

EEL 3100 NETWORK ANALYSIS AND DESIGN (3)
PR: EGN 3373. A second course in linear circuit analysis and design. 
Transient and steady-state responses of passive R-L-C net-
works to various functions.

EEL 3302 ELECTRONICS I (3)
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 (3,3)
PR: MAP 4302, PHY 3049, PHY 3049L. A basic introduction to 
electromagnetic field theory, including static and dynamic 
electromagnetic fields.

EEL 4102 LINEAR SYSTEMS ANALYSIS (3)
PR: EEL 3100. Provides further study in the analysis of linear net-
works and systems. Includes time and frequency domain points of 
view. Laplace, Fourier and superposition integrals.

EEL 4108 DISTRIBUTED NETWORKS (3)
PR: EEL 3410, EEL 3100. Transmission lines, standing waves, im-
pedance, waveguides.

EEL 4163 COMPUTER AIDED DESIGN AND 
ANALYSIS (2)

PR: EEL 3302. The emphasis is upon applications and how to use 
the major CADA programs 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 con-
cludes with a brief look at thermal and mechanical systems analysis. 
The programs used include SUPER*CEPTRE, SPICE 2, 
NASAP and others.

EEL 4220, 4222 ELECTROMECHANICS I, II (3,3)
PR: EGN 3375. Theory of electromechanical energy conversion. 
Characteristics and control of rotating electrical machines, trans-
formers, electromagnets, loudspeakers, microphones, transducers.

EEL 4305 ELECTRONICS II (3)
PR: EEL 3302. Provides further study in electronic circuits. In-
cludes oscillator, modulator, and detector analysis and design.

EEL 4330 MICROELECTRONICS ENGINEERING (3)
PR: EEL 3410, EEL 3100, EEL 3302, PHY 3101. Principles of 
microminiaturation of electrical circuits. Fabrication techniques, 
component realization, component isolation, parasitics.

EEL 4351C SEMICONDUCTOR DEVICES (3)
PR: EEL 3302. An introduction to the fundamentals of semiconduc-
tor materials and semiconductor device operation.

EEL 4411 See EEL 3410.

EEL 4511 COMMUNICATION ENGINEERING (2)
PR: EEL 4305. System considerations of electronic circuits; radio 
propagation; antennas; transmitters and receivers.

EEL 4511L COMMUNICATIONS LABORATORY (1)
CR: EEL 4511. Experiments in amplitude modulation, frequency 
modulation, pulse communications, and data transmission.

EEL 4512 INTRODUCTION TO 
COMMUNICATION SYSTEMS (3)
PR: EEL 3100. Signals and Fourier transforms in communication 
systems; measure of information in signals. AM, FM, and PM 
modulation and demodulation systems. Sampling, quantization and 
PCM. Data communication; terminals, and modems; repeaters, 
timing circuits, and interfaces. Local networks. May not be 
repeated.

EEL 4567 ELECTRO-OPTICS (2)
PR: EEL 3301L, EEL 3302L; and Fields and Waves I, EEL 3410. 
An introduction to the emerging field of electro-optics, including 
visible and infra-red sources and detectors, radiometry, optical and 
electronic components, and fiber optics.

EEL 4567L ELECTRO-OPTICS LABORATORY (1)
CR: EEL 4567 (Electro-optics class): PR: ELR 3301L, ELR 3302L, 
ELR 3410. Experiments in electro-optics, including sources, detec-
tors, radiometry, optical and electronic components, and fiber optic 
systems.

EEL 4572 LOCAL AREA NETWORKS AND 
INTERFACING (3)
PC's telephone, etc. Basics of LAN's, Tx media topologies, access 
methods, and LAN characteristics. Interfaceing of terminals and 
PC's to LAN's; NAU's and other interfacing devices; interface 
selection. LAN design issues, repeaters, timing circuits, gateways.

EEL 4657 LINEAR CONTROL SYSTEMS (3)
PR: EEL 3100. Introduction to analysis and design of linear feed-
back control systems. Covers block diagram, floor charts. Bode, 
Nyquist, and root locus techniques.

EEL 4705 LOGIC DESIGN (3)
PR: EGN 3373. Non-majors may enroll with CC. Binary number 
system; truth functions; Boolean algebra; canonical forms; mini-
mization of combinational logic circuits; logic circuits in com-
puters.

EEL 4705L LOGIC LABORATORY (1)
CR: EEL 4705.
EEL 4905 INDEPENDENT STUDY (1-5)
PR: CL. 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 (2)
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 (2)
PR: CC. Analysis techniques for AC power systems.

EEL 5253 COMPUTER ANALYSIS OF POWER SYSTEMS (2)
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 study, programs will be written and run on the IBM 360/67.

EEL 5344 DIGITAL CMOS/VLSI DESIGN (3)
PR: EEL 4705 or CC. Design, layout, simulation, and test of custom digital CMOS/VLSI chips, a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.

EEL 5356 INTEGRATED CIRCUIT PROCESSING (3)
PR: EEL 4351 or CC. Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.

EEL 5357 ANALOG CMOS/VLSI DESIGN (3)

EEL 5367 PULSE CIRCUIT PRINCIPLES (2)
PR: EEL 4102, EEL 4305. An introduction to the analysis and design of pulse and timing circuits with applications.

EEL 5388 LOW NOISE ELECTRICAL CIRCUITS (3)

EEL 5437 MICROWAVE ENGINEERING (3)
PR: EEL 4411, 4102, or CC. Introduction to passive and active components, devices, and circuits, including transmission lines and waveguides, employed in microwave integrated circuits and systems.

EEL 5462 ANTENA THEORY (3)
PR: EEL 4411 or CC. Antenna theory beginning with fundamental parameter definitions and continuing with matematical concepts, elemental antennas and Arrays.

EEL 5534 COMMUNICATION SYSTEMS I (3)

EEL 5620 NONLINEAR CONTROL SYSTEMS (3)

EEL 5705 ADVANCED LOGIC SYSTEMS (3)
PR: EEL 4705 or Graduate Standing.

EEL 5706 TESTING & FAULT TOLERANCE IN DIGITAL SYSTEMS (3)
PR: CDA 4101, COT 4130, or Graduate Standing. Reliability concepts, Fault Analysis & diagnosis in digital circuits, Fault Modeling, Fault Tolerant Design, CMOS Testability, Self-Checking Cir-

cuits, Design for Testability, Fault Masking techniques, and Fault Simulation.

EEL 5711 DIGITAL COMPUTERS (3)
PR: EEL 4705. Digital arithmetic; computer subsystems, arithmetic units; control units; memory units; general purpose computers.

EEL 5711L DIGITAL LABORATORY (1)
CR: EEL 5711.

EEL 5754C MICROPROCESSOR BASED DIGITAL SIGNAL PROCESSING (3)
PR: EEL 4705 or CC. Arithmetic systems, processing structures, efficient algorithms. DSP hardware, TI, NEC and other DSP microprocessors; hardware and software. System development. Application to telecommunications and voice processing.

EEL 5802 DIGITAL SIGNAL PROCESSING I (3)

EEL 5760 DISCRETE STRUCTURES FOR DIGITAL SYSTEMS (2)

EEL 5820 IMAGE PROCESSING (2)
PR: EEL 5502 or CC. Two-dimensional signals (including random), convolutions and system functions. Fourier transform and FFT in two dimensions. Digitization of two-dimensional signals, quantization and aliasing errors. Filtering, restoration, and low bit-rate coding of images. Application to video-conferencing.

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

ELR 3301L LABORATORY 1 (1)
PR: EGN 3373.

ELR 3302L LABORATORY 2 (1)
PR: ELR 3301L and EEL 3302, CR: EEL 4305.

ELR 4305L LABORATORY 3 (1)
PR: ELR 3302L, EEL 4305

ELR 4306L LABORATORY 4 (1)
PR: ELR 3302L CR: EEL 4411.

ENGINEERING TECHNOLOGY

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

ETG 4932 SPECIAL TOPICS IN TECHNOLOGY II (1-5)
PR: CC.

ETI 3101 INDUSTRIAL STATISTICS (3)
PR: ETK classification. Industrial applications of probability, testing of hypotheses, regression techniques and analysis of variance. (No credit for engineering majors.)

ETI 4600 INTRODUCTION TO INDUSTRIAL SYSTEMS (3)
PR: ETK classification of CC. Introduction to organizational planning and control functions in industrial systems.

ETI 4614 PRINCIPLES OF INDUSTRIAL OPERATIONS I (3)
PR: ETK classification of CC. Techniques of work measurement and methods design; principles of production control and inventory control.

ETI 4661 PRINCIPLES OF INDUSTRIAL OPERATIONS II (3)
PR: ETI 4600, ETI 4614, or CC. Application of techniques developed to the operation of an industrial firm through special projects.
Introduction to the fundamentals of accounting, finance, management, and marketing as needed by engineers, scientists, and other professionals in managerial positions.

EIN 5345 INVENTORY CONTROL
PR: EIN 4335 or equivalent. Properties of inventory systems and fundamentals of deterministic and probabilistic inventory models. Principles and concepts of material requirements planning.

EIN 5353 ENGINEERING VALUE ANALYSIS
PR: EIN 4352 or equivalent. Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

EIN 5381C LOGISTICS ENGINEERING
PR: EIN 3443 or equivalent. Principles and practices of Logistics Engineering are covered. System requirements, logistics support analysis, test and evaluation are considered.

EIN 5389 FORECASTING
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.

ESI 4118 COMPUTERS IN INDUSTRIAL ENGINEERING
PR: EIN 3443 or equivalent. Introduction to operations research techniques as applied to material handling, inventory storage, material transfer, industrial processes and quality control. Economic justification of automated activities.

EIN 4384C INTRODUCTION TO INDUSTRIAL ENGINEERING
History of industrial engineering. Introduction to basic industrial processes and controls. Students research specific industries and visit local industrial plants.

EIN 4312L PRODUCTION DESIGN I
PR: EIN 4304C. Operation analysis and workplace design, work measurement, standard data, ergonomics, and labor relations.

EIN 4313L HUMAN FACTORS DESIGN
PR: EIN 4312L. Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 4334 PRODUCTION CONTROL I
PR: EGN 3443 PR: ESI 4314. Activity forecasting models and control. Design and use of inventory control models, both deterministic and probabilistic. Analysis of resource requirements.

EIN 4352 ENGINEERING ECONOMY II
PR: EGN 3461 or equivalent. Analysis of economic limitations on engineering projects. Income tax considerations, replacement models, MAPI, and obsolescence.

EIN 4364L 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 4395L MANUFACTURING PROCESSES
PR: EGN 3365, EIN 4304. The study of basic manufacturing processes. CAD/CAM and precision assembly.

EIN 4933 SPECIAL TOPICS IN INDUSTRIAL ENGINEERING
(1-5)
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

EIN 5101C 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 WORK PHYSIOLOGY AND BIOMECHANICS
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 5301C INDUSTRIAL ENGINEERING CONCEPTS
Survey of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

EIN 5322 PRINCIPLES OF ENGINEERING MANAGEMENT
(3)
ing of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

**ESI 5216 ENGINEERING STATISTICS II**
PR: EGN 3443 or equivalent. Application of non-parametric statistics, sequential analysis, orthogonal polynomials and other advanced statistical techniques to solving engineering problems.

**ESI 5233 RELIABILITY ENGINEERING (3)**
PR: EGN 3443 or equivalent. Fundamental concepts of reliability, estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

**ESI 5219 STATISTICAL METHODS FOR ENGINEERING MANAGERS**
Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty. Not open to students who have had EGN 3443.

**ESI 5233 RELIABILITY ENGINEERING (3)**
PR: EGN 3443 or equivalent. Fundamental concepts of reliability, estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

**ESI 5306 OPERATIONS RESEARCH FOR ENGINEERING MANAGEMENT**
Linear programming, non-linear programming, queuing, inventory, network analysis. Not open to students who have had ESI 4315.

**ESI 5470 MANUFACTURING SYSTEMS ANALYSIS**
PR: CC. The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

**ESI 5522 COMPUTER SIMULATION II**

**COMPUTER SERVICE COURSES**
(No credit for Engineering Majors)

**CDA 3100 SC INTRODUCTION TO COMPUTERS II**

**CDA 3101 SC INTRODUCTION TO COMPUTERS III**
PR: CDA 3100. Continuation of CDA 3100. Introduction to large computer systems assembler language and applications.

**CGS 3425 SC APL PROGRAMMING**
PR: COP 3170. The use of the APL language as an interactive mode to solve business and scientific programs.

**CGS 3462 SC PASCAL PROGRAMMING**
PR: COP 3170. Structured programming implemented with the PASCAL language. Emphasis on program structure and data manipulation.

**CGS 3463 SC GPSS SIMULATION**
PR: COP 3200. The development and execution of discrete event simulation models of real world systems using the GPSS language.

**CGS 3464 SC SIMSCRIPT SIMULATION**

**CGS 4120 SC COMPUTER APPLICATIONS**
PR: COP 3200. Applications of various high level languages to current and future scientific and engineering problems.

**CGS 4260 SC MINI-COMPUTER APPLICATIONS**
PR: CGS 4465. Study of mini-computer system components, I-O devices, theory of computer operation.

**CGS 4465 SC DATA REPRESENTATION AND MANIPULATION**
PR: CDA 3100. Study of the internal representations of data, data storage and retrieval, and data manipulations.

**CGS 5540 SC COMPUTERS FOR RESEARCH I**
PR: Graduate student status. The use of the FORTRAN language in solving research problems.

**COP 3170 SC INTRODUCTION TO COMPUTERS AND PROGRAMMING IN BASIC-6A**
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 3200 SC FORTRAN PROGRAMMING**
PR: COP 3170. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.

**COP 3210 SC COBOL PROGRAMMING I**

**COP 3211 SC COBOL PROGRAMMING II**
PR: COP 3210. 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 3310 SC PL/I PROGRAMMING**

**MECHANICAL ENGINEERING**

**EMC 3103 THERMODYNAMICS II**
PR: EGN 3343. Mass and energy balances on steady and unsteady state systems with and without chemical reactions. Combustion processes, power and refrigeration cycles.

**EMC 3117 TRANSPORT PROCESSES I**
PR: EGN 3343. Principles of momentum, and heat transfer. Boundary layer theory and pipe flow. Emphasis given to pumping and metering of compressible and incompressible fluids. Selection of proper fluid handling equipment to satisfy realistic process demands.

**EMC 3301 INSTRUMENT SYSTEMS**

**EMC 3303 CHEMICAL AND MECHANICAL ENGINEERING LABORATORY I**

**EMC 4104 PHASE & CHEMICAL EQUILIBRIA**
PR: EMC 3103 or CHM 4410. Correlation of Thermodynamics properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation process and reactor design.

**EMC 4112 ELECTRONIC EQUIPMENT COOLING**
PR: EGN 3374 or CI. Analysis of extended surfaces. Printed circuit board thermal analysis. Free and forced convection as applied to electrical and electronic components. Thermo-electric cooling and performance of cold plate heat exchangers.

**EMC 4118 TRANSPORT PROCESSES II**

**EMC 4311 CONTROLS LABORATORY**
(1)
PR: EGN 3433. CR: EMC 4314. Familiarization with and performance testing of automatic control systems.

EMC 4314 AUTOMATIC CONTROLS I (3)
PR: EGN 3433, EMC 3103, EMC 4118; CR: EMC 4411. Analysis of devices for measurement and control and factors affecting process dynamics. Block diagram representation of control systems. Modes of control for single loops and stability requirements.

EMC 4411 COMPUTER SIMULATION I (2)
PR: EGN 3433. The use of computers to study the dynamic behavior of chemical and mechanical engineering processes.

EMC 4522L CHEMICAL AND MECHANICAL ENGINEERING LABORATORY II (2)
PR: EMC 3303L. Continuation of EMC 3303L with emphasis on material and energy balances of mechanical and chemical systems and processes. Lec.-Lab. The Team-Project-Time Approach.

EMC 4515 INDEPENDENT STUDY (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours.

EMC 4930 SPECIAL TOPICS IN CHEMICAL AND MECHANICAL ENGINEERING I (1-4)
PR: CC.

EMC 4931 SPECIAL TOPICS IN CHEMICAL AND MECHANICAL ENGINEERING II (1-4)
PR: CC.

EMC 5107 INDUSTRIAL ENERGY OBSERVATION (3)

EMC 5115 PROCESS HEAT TRANSFER (3)
PR: EMC 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 5191C HEAT TRANSFER PROJECTS (3)
PR: CI. Industrial design projects in the heat transfer field. Varies each term. May be repeated once for credit.

EMC 5315 MACHINE CONTROL SYSTEMS (3)
PR: EMC 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 5510 MOTOR SELECTION AND CONTROL (3)
PR: EGN 3373, EGN 3433. Standard electrical voltages; power wiring in industrial plants; NEMA motor designs, techniques for estimating motor starting times and temperature rise; motor selection; starting and operating safety interlocks; conventional motor starting and control systems; direct digital (programmable) controls; electrical code requirements for conductors and protective devices.

EMC 5930 SPECIAL TOPICS III (1-4)
PR: CC.

EMC 5931 SPECIAL TOPICS IV (1-4)
PR: CC.

EML 3126 FLUID SYSTEMS (3)
PR: EGN 3343; Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

EML 3264 KINEMATICS (3)
PR: MAC 3282, PHY 3040. Plane and angular motion; determination of velocities and accelerations in mechanisms. Rolling and sliding contact pairs, cams, gearing. Familiarization with computer techniques.

EML 3500 MACHINE ANALYSIS AND DESIGN I (3)
PR: EGN 3313. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

EML 4106C THERMAL SYSTEMS AND ECONOMICS (3)
PR: EMC 3103. Power and Refrigeration Cycles; Solar Cells; Fuel Cells; Magnetochemistry; Nuclear Energy; Internal Combustion Engines; Fuels; Methods of Economic Comparison.

EML 4142 HEAT TRANSFER I (3)
PR: EML 3126. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

EML 4260C DYNAMICS OF MACHINERY I (3)
PR: EML 3264. Static forces and inertia forces in machines, flywheels, balancing rotating masses, balancing reciprocating masses, gyroscopic effects, mathematical analysis of lumped parameter mechanical systems.

EML 4419C PROPULSION I (3)
PR: EML 3117. EML 3500 or CI. Introduction to the design of propulsion systems. Basic analysis of internal combustion, jet and rocket engines. Application to ground and air transportation. Advanced propulsion concepts. Special topics for class discussion.

EML 4503 MACHINE ANALYSIS AND DESIGN II (3)
PR: EML 3500, EML 3264. Continuation of EML 3500. Antifriction bearings, journal bearings, power transmission, shafting.

EML 4513 POWER PLAN ANALYSIS AND DESIGN (3)

EML 4536 CAD-YACHT DESIGN (3)
PR: CI. Fundamentals of small craft design using computer-aided design techniques. Emphasis is on sailing yachts with some material included on design of commercial sail vessels and pleasure and commercial power craft. Class is taught in a microcomputer-equipped laboratory.

EML 4551C PROJECT DESIGN I (3)
PR: Senior standing in mechanical engineering or CI. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge.

EML 4552C PROJECT DESIGN II (3)
PR: EML 4509 or CI. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4509.

EML 4601 REFRIGERATION AND AIR CONDITIONING (3)

EML 5241 LUBRICATION (3)
PR: EML 4503 or CI. 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 (3)
PR: EML 3500. Design of thin wall pressure vessels, ASME codes, flanges, joints, gasketed surfaces, supports and foundations.

EML 5509 PROJECT DESIGN III (3)
PR: CC. Correlation of previously acquired mechanical design experiences with a creative design project. Lec-lab.

EML 5528 ANALYSIS METHODS FOR MECHANICAL DESIGN (2)
PR: EML 4503 or CI. Treatment of stress, strain and stiffness aspects of machine design. Application of failure theories, residual stresses and energy principles to machine elements.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>EML 5537</td>
<td>CAD-NAVAL ARCHITECTURE I</td>
<td>3</td>
<td>EML 3500, EML 4503 or CI</td>
<td>Fundamentals of naval architecture for small ships and boats, pleasure and commercial, sail and power using computer-aided design techniques. Includes computer-aided stress analysis. A design project is required.</td>
</tr>
<tr>
<td>EML 5538</td>
<td>CAD-NAVAL ARCHITECTURE II</td>
<td>3</td>
<td>EML 3500, EML 4503 or CI</td>
<td>Fundamentals of naval architecture for small ships and boats, pleasure and commercial, sail and power using computer-aided design techniques. Includes computer-aided stress analysis. A design project is required.</td>
</tr>
<tr>
<td>EML 5412</td>
<td>INTRODUCTION TO NUCLEAR ENGINEERING</td>
<td>3</td>
<td>EMC 3103, EMC 3117 or CI</td>
<td>Fundamentals of nuclear reactors, core physics, and fuel enrichment, reactor power cycles, transient reactor performance.</td>
</tr>
<tr>
<td>EML 5232</td>
<td>COMPOSITE LAMINATED MATERIALS</td>
<td>3</td>
<td>CI</td>
<td>Structural analysis of laminates composed of various types of fiberglass, carbon, Kelvar etc. with emphasis on applications in mechanical engineering. ANSYS finite element package and other computer programs to be used.</td>
</tr>
</tbody>
</table>
COLLEGE OF FINE ARTS

ART


ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART
(4)
A course in which theories of modern artists, and of critics and historians of Modernism are treated as a part of general Culture and Intellectual History.

ARH 5795 METHODS OF ART HISTORY
(4)
This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical examination. (Must be taken during the students first two semesters in the program.)

ART 2202C VISUAL CONCEPTS I
(4)
Studio problems supplemented by reading and discussion. Consideration of the two-dimensional surface.

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

ART 3110C CERAMICS I
(4)

ART 3301C DRAWING I
(4)

ART 3420 LITHOGRAPHY I
(4)
PR: Visual Concepts I. Introduction to Art and Drawing I. Intermediate problems in lithography with emphasis on the exploration of methods and media and development of individual concepts.

ART 3470 INTAGLIO I
(4)
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
(4)

ART 3701C SCULPTURE I
(4)
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 3935C STUDIO TECHNIQUES: SELECTED PROJECTS
(2)
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
(4)
PR: ART 3110C. Continued problems in ceramics. May be repeated.

ART 4320C DRAWING II
(4)
PR: ART 3301C. Continued problems in drawing. May be repeated.

ART 4421C LITHOGRAPHY II
(4)
PR: ART 3420. Continued problems in lithography. May be repeated.

ART 4471C INTAGLIO II
(4)
PR: ART 3470. Continued problems in intaglio. May be repeated.

ART 4520C PAINTING II
(4)
PR: ART 3510C. Continued problems in painting. May be repeated.

ART 4702C SCULPTURE II
(4)
PR: ART 3701C. Continued problems in sculpture. May be repeated.

ART 4900 DIRECTED READING
(1-4)
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 (1-4)
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 (2)
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.

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

ART 5125C CERAMICS (4)
PR: ART 411C. Advanced problems in the various ceramic techniques, including throwing and glaze calculation. May be repeated.

ART 5340C DRAWING (4)
PR: ART 4320C. Advanced problems in various drawing techniques. Emphasis on individual creative expression. May be repeated.

ART 5422C LITHOGRAPHY (4)
PR: ART 4421C. Advanced problems in various lithographic techniques. Emphasis on individual creative expression. May be repeated.

ART 5472C INTAGLIO (4)
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 5523C PAINTING (4)
PR: ART 4520C. Advanced problems in the various painting techniques. Emphasis on individual creative expression. May be repeated.

ART 5730C SCULPTURE (4)
PR: ART 4702C. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. May be repeated.

ART 5797 GALLERY AND MUSEUM INTERNSHIP (2-6)
By working in Bay area museums or galleries students will become familiar with various museological operations. Internships vary owing to the work at hand in particular museums, but possible areas of work include registration, installation, conservation, writing of grants or museum education. (Students are eligible after completing one semester in the program.) May be repeated up to 8 credit hours. (S/U only.)

ART 5910 RESEARCH (1-4)
PR: CC. May be repeated.

ART 5936 STUDIO TECHNIQUES: SELECTED PROJECTS (2)
PR: Visual Concepts I, II and Introduction to Art, the topictechnique-related 3000-4000 level studio sequence and CI. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

FIL 3001 FILM: THE LANGUAGE OF VISION -6A (4)
Open to both majors and non-majors. Exploration of the history of creative filmmaking from its beginnings to the present time. May not be repeated.

PGY 3410C PHOTOGRAPHY I (4)
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.

PGY 3510C CINEMATOGRAPHY I (4)
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.

PGY 4410C PHOTOGRAPHY II (4)
PR: PGY 3410C. Continued problems in photography. May be repeated.

PGY 4520C CINEMATOGRAPHY II (4)
PR: PGY 3510C. Continued problems in cinematography. May be repeated.

PGY 4550C SOUND TECHNIQUES (4)
PR: PGY 3510C. The recording and editing of sound for film. Collaboration with other departments, particularly Music and Theatre, is encouraged. To be taken concurrently with PGY 4520C or PGY 5420C whenever possible.

PGY 5420C PHOTOGRAPHY (4)
PR: CI. Advanced work in photography and related media leading to development of personal expressive statements. May be repeated.

PGY 5530C CINEMATOGRAPHY (4)
PR: PGY 4520C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions. May be repeated.

DANCE

DAA 2000 THEATRE DANCE STYLES (2)
PR: DAA 2100 or DAA 2200. CI. Development of technical skills in social and historical dance forms frequently stylized for use by dance choreographers. Forms to be studied will include polka, clogging, waltz, folk, tap dancing, etc. May be repeated up to 4 credit hours.

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

DAA 2160 MODERN DANCE II (3-4)
PR: Admission by audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated. (Ballet requirement)

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

DAA 2201 BALLET II (3-4)
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 2500 FUNDAMENTALS OF JAZZ DANCE (2)
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic movement patterns. May be repeated up to 8 credit hours.

DAA 2704 DANCE IMPROVISATIONS (2)
PR: DAA 2100; or DAA 2200, or CI. For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated up to 4 credit hours.

DAA 3060 SPECIALIZED STUDY IN MOVEMENT THEORY AND BODY ALIGNMENT (2)
PR: DAA 2100 or DAA 2200 or CI. Analysis of scientific basis of movement for the dancer through the study of body alignment and movement theories related to theatre dance techniques.

DAA 3161 MODERN DANCE III (3-4)
Learning in dance techniques and choreography. For DAA 3202 BALLET III (3-4)
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 2 hours by majors in ballet concentration. May be repeated.
DAA 3480 PERFORMANCE (1)
PR: Admission by audition or CC. Open to all university students proficient in dance techniques. Rehearsal and performance of works presented by the department. May be repeated up to 10 credit hours.
DAA 3502 JAZZ DANCE (2)
PR: Admission by audition, DAA 2201 or 2160. A technique class for the intermediate level 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 for basic principles of composition. Preparation of studies in theme and variations, breath 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. Outside projects, concerts, and performances are 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. Lec-lab., reading. Rehearsal hours to be arranged. May be repeated.
DAA 4703 CHOREOGRAPHY IV (2)
PR: DAA 4702. The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading. May be repeated.
DAA 4790 SENIOR PROJECT (1-5)
PR: senior, Major, CI, CC. The creation of an original group work and solo within the senior’s major concentration—ballet or modern. To be performed and presented with the concurrence of a faculty advisor.
DAA 4929 DANCE STUDIES (1-4)
PR: CI and CC. Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops. May be repeated up to 4 credit hours.
DAN 4300 THE TEACHING OF DANCE: THEORY AND PRACTICE (3)
PR: CI, CC. Designed to provide prospective dance teacher with opportunities to develop concepts of pedagogy based on principles of teaching—learning in dance techniques and choreography. For majors and non-majors. May be repeated up to 9 credit hours.
DAN 3100 INTRODUCTION TO DANCE -6A (3)
For majors and 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 back-stage 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 I (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 within historical context. Continued problems in rhythmic materials.
DAN 3710 REPETORY (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 -6A (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 major, CC. To aid majors to understand, appraise and perfect their own art and technique through critical and aesthetic judgments of their colleagues.
DAN 4905 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: CI, CC. Independent studies in the various areas of Dance. Course of study may be used to fulfill Junior Project. Must receive approval prior to registration.
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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUC 2201</td>
<td>COMPOSITION</td>
<td>PR: MUT 1112 and Cl.</td>
<td>A study of those techniques of conducting traditional music to unique instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.</td>
</tr>
<tr>
<td>MUC 2301</td>
<td>HISTORY OF POPULAR MUSIC</td>
<td></td>
<td>Popular music in the U.S. from 1820 to 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.</td>
</tr>
<tr>
<td>MUC 3301</td>
<td>MUSIC HISTORY / MEDIEVAL AND RENAISSANCE</td>
<td>PR: Cl.</td>
<td>Required of music majors; a study of the historical development of musical styles of the Medieval and Renaissance periods and of the music of those periods.</td>
</tr>
<tr>
<td>MUC 3302</td>
<td>MUSIC HISTORY / BAROQUE AND CLASSIC</td>
<td>PR: Cl.</td>
<td>Required of music majors; a study of the historical development of musical styles of the Baroque and classic periods and of the music of those periods.</td>
</tr>
<tr>
<td>MUC 3303</td>
<td>ELECTRONIC MUSIC-REAL-TIME</td>
<td></td>
<td>A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music majors.</td>
</tr>
<tr>
<td>MUC 4501</td>
<td>SEMINAR IN NEW MUSIC SYSTEMS</td>
<td>PR: Cl.</td>
<td>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.)</td>
</tr>
<tr>
<td>MUG 3101</td>
<td>CHAMBER MUSIC ENSEMBLES (below)</td>
<td>PR: Cl.</td>
<td>Open only to non-music majors; a study of the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.</td>
</tr>
<tr>
<td>MUG 3102</td>
<td>UNIVERSITY BAND</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3140</td>
<td>WIND ENSEMBLE</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3210</td>
<td>UNIVERSITY ORCHESTRA</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3301</td>
<td>UNIVERSITY SINGERS</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3380</td>
<td>UNIVERSITY-COMMUNITY CHORUS</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
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<tr>
<td>MUG 3450</td>
<td>PIANO ENSEMBLE</td>
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<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3710</td>
<td>JAZZ ENSEMBLE</td>
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<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3501</td>
<td>OPERA WORKSHOP</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
<tr>
<td>MUG 3340</td>
<td>CHAMBER SINGERS</td>
<td></td>
<td>PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.</td>
</tr>
</tbody>
</table>
MUN 3411 STRING QUARTET (1)
MUN 3420 SAXOPHONE ENSEMBLE (1)
MUN 3421 FLUTE CHOIR (1)
MUN 3422 CLARINET CHOIR (1)
MUN 3424 WOODWIND QUINTET (1)
MUN 3430 BRASS CHOIR (1)
MUN 3432 HORN QUARTET (1)
MUN 3431 (formerly MUN 3436) BRASS QUINTET (1)
MUN 3440 PERCUSSION ENSEMBLE (1)
MUN 3441 MARIMBA ENSEMBLE (1)
MUN 3470 COLLEGIUM MUSICUM (1)
MUN 3711 JAZZ CHAMBER ENSEMBLE (1)
MUN 3492 CLASSICAL GUITAR ENSEMBLE (1)
MUS 3001 RECITAL ATTENDANCE (1)

This course is required whenever a student registers for applied music. This requirement for the successful completion of the course is attendance at ten (10) department-sponsored recitals/concerts throughout the semester. (SU Grading only).

MUS 4900 DIRECTED READING (1-3)
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.

MUS 4905 DIRECTED STUDY (1-4)
PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUN 3490 NEW MUSIC ENSEMBLE (1)
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 STUDIO 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 4935 MUSIC SENIOR SEMINAR (1)
PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (SU only).

MUS 5905 DIRECTED STUDY (1-4)
PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUSIC WORKSHOP COURSES (below)
PR: CI. Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students.

MUS 5927 ORCHESTRA WORKSHOP (1-2)
MUS 5929 STRING WORKSHOP (1-2)
MUT 1001 RUDIMENTS OF 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 and 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 1242. 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 3641 or CI. A study of jazz improvisational techniques and related jazz theory.

MUT 3663 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 soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 3664 JAZZ STYLES AND ANALYSIS II (2)
PR: Jazz Studies 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 4311, 4312 ORCHESTRACTION (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 (3)
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 4421 EIGHTEENTH CENTURY PRACTICE (3)
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 4571 TWENTIETH CENTURY PRACTICE (3)
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.

MUT 5951 GRADUATE REVIEW OF MUSIC THEORY (1-4)
A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and as such does not count toward the degree.

MVV 2000 FOREIGN LANGUAGE DICTION FOR SINGERS (2)
Required of, but not limited to all voice majors in the Bachelor of Music program. A one semester course covering singing diction in
French, German and Italian. Should be completed in the freshman or sophomore year of voice.

SECONDARY APPLIED MUSIC COURSES (below)

PR: CI. One half-hour private lesson 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 VIOLIN (1)
MVS 1213 APPLIED VIOLONCELLO (1)
MVS 1214 APPLIED DOUBLE BASS (1)
MVS 1215 APPLIED HARP (1)
MVS 1216 APPLIED CLASSICAL GUITAR (1)
MVV 1211 APPLIED VOICE (1)
MVW 1211 APPLIED FLUTE (1)
MVW 1212 APPLIED OBOE (1)
MVW 1213 APPLIED CLARINET (1)
MVW 1214 APPLIED BASSOON (1)
MVW 1215 APPLIED SAXOPHONE (1)

CLASS PIANO COURSES (below)

PR: CI. Class is elementary 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 KEYBOARD SKILLS I (2)
MVK 1121 KEYBOARD SKILLS II (2)
MVK 2111 KEYBOARD SKILLS III (2)
MVK 2121 KEYBOARD SKILLS IV (2)
MVK 3111 MUSIC MAJORS, LEVEL V (2)
MVK 3111 BEGINNING PIANO I (2)
MVK 1821 BEGINNING PIANO II (2)
MVK 2811 INTERMEDIATE PIANO (2)
MVK 2821 INTERMEDIATE PIANO (2)

APPLIED MUSIC COURSES PRINCIPAL (below)

PR: CI. Required of all music education and composition 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. Applied music courses are NOT available on S/U basis.

MVW 1311 TRUMPET PRINCIPAL (2)
MVW 1312 FRENCH HORN PRINCIPAL (2)
MVW 1313 TROMBONE PRINCIPAL (2)
MVW 1314 EUPHONIUM PRINCIPAL (2)
MVW 1315 TUBA PRINCIPAL (2)
MVK 1311 PIANO PRINCIPAL (2)
MVK 1313 ORGAN PRINCIPAL (2)
MVP 1311 PERCUSSION PRINCIPAL (2)
MVS 1311 VIOLIN PRINCIPAL (2)
MVS 1312 VIOLA PRINCIPAL (2)
MVS 1313 VIOLONCELLO PRINCIPAL (2)
MVS 1314 DOUBLE BASS PRINCIPAL (2)
MVS 1315 HARP PRINCIPAL (2)
MVS 1316 CLASSICAL GUITAR PRINCIPAL (2)
MVW 1311 VIOLIN PRINCIPAL (2)
MVW 1311 VIOLIN PRINCIPAL (2)
MVW 1312 VIOLA PRINCIPAL (2)
MVW 1313 VIOLONCELLO PRINCIPAL (2)
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MVW 1313 VIOLONCELLO PRINCIPAL (2)
MVW 1314 DOUBLE BASS PRINCIPAL (2)
MVW 1315 HARP PRINCIPAL (2)
MVW 1316 CLASSICAL GUITAR PRINCIPAL (2)
MVW 1313 VIOLIN PRINCIPAL (2)
MVW 1313 VIOLIN PRINCIPAL (2)
MVW 1312 VIOLA PRINCIPAL (2)
MVW 1313 VIOLONCELLO PRINCIPAL (2)
MVW 1314 DOUBLE BASS PRINCIPAL (2)
MVW 1315 HARP PRINCIPAL (2)
MVW 1316 CLASSICAL GUITAR PRINCIPAL (2)
MVW 1313 VIOLIN PRINCIPAL (2)
MVW 1313 VIOLIN PRINCIPAL (2)
MVW 1312 VIOLA PRINCIPAL (2)
MVW 1313 VIOLONCELLO PRINCIPAL (2)
MVW 1314 DOUBLE BASS PRINCIPAL (2)
MVW 1315 HARP PRINCIPAL (2)
MVW 1316 CLASSICAL GUITAR PRINCIPAL (2)
MVW 1313 VIOLIN PRINCIPAL (2)
MVW 1313 VIOLIN PRINCIPAL (2)
MVW 1312 VIOLA PRINCIPAL (2)
MVW 1313 VIOLONCELLO PRINCIPAL (2)
MVW 1314 DOUBLE BASS PRINCIPAL (2)
APPLIED MUSIC COURSES

MVW 2425
MVW 2424
MVW 2423 CLARINET MAJOR (4)
MVW 2434 DOUBLE BASS PRINCIPAL (2)
MVW 2435 HARp PRINCIPAL
MVW 2436 CLASSICAL GUITAR PRINCIPAL (2)
MVW 2431 VOICE PRINCIPAL
MVW 2431 FLUTE PRINCIPAL (2)
MVW 2432 OBOE PRINCIPAL (2)
MVW 2433 CLARINET PRINCIPAL (2)
MVW 2434 BASSOON PRINCIPAL (2)
MVW 2435 SAXOPHONE PRINCIPAL (2)

APPLIED MUSIC COURSES (below)

MVW 3434
MVW 3432
MVW 3431 VIOLIN MAJOR (4)
MVW 3435 HARP MAJOR
MVW 3434 CLASSICAL GUITAR MAJOR (4)
MVW 3431 VOICE MAJOR
MVW 3431 FLUTE MAJOR (4)
MVW 3432 OBOE MAJOR (4)
MVW 3433 CLARINET MAJOR (4)
MVW 3434 BASSOON MAJOR (4)
MVW 3435 SAXOPHONE MAJOR (4)

APPLIED MUSIC COURSES (below)

MVW 4445 TUBA MAJOR (4)
MVW 4444 EUPHONIUM MAJOR (4)
MVW 4443 CELLO MAJOR (4)
MVW 4442 FRENCH HORN MAJOR (4)
MVW 4443 CLASSICAL GUITAR MAJOR (4)
MVW 4441 VOICE MAJOR
MVW 4441 FLUTE MAJOR (4)
MVW 4442 OBOE MAJOR (4)
MVW 4443 CLARINET MAJOR (4)
MVW 4444 BASSOON MAJOR (4)
MVW 4445 SAXOPHONE MAJOR (4)

MUSIC STUDIO PEDAGOGY COURSES (below)

MVK 4640 PIANO PEDAGOGY I
MVK 4641 PIANO PEDAGOGY II
MVS 4640 STRINGS
MVW 4641 VOICE

MASTER CLASS COURSES (below)

MVK 4640 PIANO PEDAGOGY I
MVK 4641 PIANO PEDAGOGY II
MVS 4640 STRINGS
MVW 4641 VOICE

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.

MVW 2431 TRUMPET MAJOR
MVW 2432 FRENCH HORN MAJOR
MVW 2433 TROMBONE MAJOR
MVW 2434 EUPHONIUM MAJOR
MVW 2435 TUBA MAJOR
MVK 2431 PIANO MAJOR
MVK 2433 ORGAN MAJOR
MVP 2431 PERCUSSION MAJOR
MVS 2431 VIOLIN MAJOR
MVS 2432 VIOLA MAJOR
MVS 2433 CELLO MAJOR
MVS 2434 BASSOON MAJOR
MVS 2435 SAXOPHONE MAJOR

PR: Necessary competency at junior 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.

MVW 2434 CELLO MAJOR (4)
MVW 2433 VIOLIN MAJOR (4)
MVW 2434 BASSOON MAJOR (4)
MVW 2435 SAXOPHONE MAJOR (4)

APPLIED MUSIC COURSES (below)

MVW 4445 TUBA MAJOR (4)
MVW 4444 EUPHONIUM MAJOR (4)
MVW 4443 CELLO MAJOR (4)
MVW 4442 FRENCH HORN MAJOR (4)
MVW 4443 CLASSICAL GUITAR MAJOR (4)
MVW 4441 VOICE MAJOR
MVW 4441 FLUTE MAJOR (4)
MVW 4442 OBOE MAJOR (4)
MVW 4443 CLARINET MAJOR (4)
MVW 4444 BASSOON MAJOR (4)
MVW 4445 SAXOPHONE MAJOR (4)

MUSIC STUDIO PEDAGOGY COURSES (below)

MVK 4640 PIANO PEDAGOGY I
MVK 4641 PIANO PEDAGOGY II
MVS 4640 STRINGS
MVW 4641 VOICE

MASTER CLASS COURSES (below)

PR: Study and performance of selected literature with special emphasis on style, form, and techniques; especially designed for teachers, piano majors, and talented secondary school students.
### MVS 5750 STRINGS, MASTER CLASS

**MUSIC EDUCATION**

**Director:** C. P. Doane; **Professors:** V. A. Bridges, J. J. Heller; **Associate Professor:** C. P. Doane; **Assistant Professor:** J. W. Richmond; **Adjunct Instructors:** M. Griffin, M. Texter.

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<th>Course Code</th>
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<tr>
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<td>CHORAL MATERIALS PRACTICUM</td>
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<td>BAND MATERIALS PRACTICUM</td>
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### THEATRE

**Acting Chairperson:** D. K. Williams; **Professors:** D. M. Calandra, N.B. Cole, W. A. Lorenzen, P. Massie, P. B. O'Sullivan; **Associate Professors:** J. W. Belt, B. W. Lee, A. G. Lillethun, C. Steele, D. K. Williams; **Affiliates:** G. B. Stephens, Lloyd Bray; **Lecturer:** M. A. Bentley; **Other Faculty:** P. M. Finelli.

**THE 2020 THEATRE FUNDAMENTALS**

In 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 -6A**

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. THE 4927 or this course is required of all majors and minors ACPI (Advanced Course Production Involvement). Assignments are made contractually at the time of registration. Open to non-majors on a credit or noncredit 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 out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior non-majors with CI.

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 design track.) 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 design track/scenic.) Open to upper level non-majors with CI.

THE 4320 THE THEATRE 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 Shakespeare plays from the histrionic 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.

THE 4401 O'NEILL AND AFTER  (3)  
PR: THE 3110. Survey of materials in the American Theatre from the writings of Eugene O'Neill to the present. Open to non-majors with CI.

THE 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE  (3)  
PR: THE 3110. A course in the function of the script for the active theatre artist, treating materials from the Ancient Greeks through the Restoration and the theatre of Molière, giving some attention to later reflections. Open to non-majors with CI.

THE 4480 DRAMA-SPECIAL TOPICS  (3)  
PR: THE 3110. A course in the function of the script for the active theatre artist treating materials of a particular playwright or grouping of playwrights. Repeatable with consent of advisor and change in topic. Open to non-majors with CI.

THE 4562 SENIOR COLLOQUIUM IN THEATRICAL CREATIVITY  (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. A colloquium in the nature of the synthesized theatre object. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior non-majors with CI.

THE 4593 HONORS SEMINAR  (2)  
Investigatory and/or theoretical preparation for Theatre Honors Practicum. Enrollment limited to upper level majors who have been formally admitted to the department honors program. Not available S/U. May not be repeated except under special and unusual circumstances.

THE 4594 HONORS PRACTICUM  (3)  
PR: THE 4593. Practice, production and/or performance appropriate to the specialities of the visiting artists brought to campus specifically for this course sequence. May not be repeated except under special and unusual circumstances.

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

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

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

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

THE 4930 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.

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

THE 5931 SELECTED TOPICS IN THEATRE  (1-8)  
PR: CI. The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

TPA 2200 THEATRE CRAFTS: STAGECRAFT  (3)  
The scenic materials and skills basic to theatrical production. An introductory course with lab. Required of all theatre majors. Open to non-majors.

TPA 2223 THEATRE CRAFTS: LIGHTING  (3)  
Required of all Tech/design majors. The basic equipment and skills used in lighting and sound for stage productions. This course or TPA 2232 Theatre Crafts: Costume required of all theatre majors. Open to non-majors.

TPA 2232 THEATRE CRAFTS: COSTUME  (3)  
Required of all Tech/Design majors. This course or TPA 2223 Theatre Crafts: Lighting required of all theatre majors. By learning basic tools, processes and materials used in the Costume Shop, the student will become skilled in the clothing process. This course also trains students in wardrobe crew practices and in preparing costumes in the USF Costume Shop. Open to non-majors.

TPA 2250 WORKSHOP IN STAGE MAKEUP  (1)  
Beginning theory and practice in make-up for the stage. Theatre majors given preference. A studio course.
TPA 3086 MEANS OF VISUAL EXPRESSION (3)
PR: Completion of the four required 2000 level courses. The study of presentational techniques for visual design and technology as applied to the development of visual dynamics. Required of all theatre majors. Open to non-majors with TPA 2220 and CI.

TPA 3221 LIGHTING: THEORY AND PRACTICE (3)
PR: TPA 2223. This course covers the principles of color theory and composition as pertains to lighting design. Laboratory experiments in usage of light to create space utilizing shadow, texture and blending. Introduction to stage lighting methods and graphics.

TPA 3260 SOUND FOR THE STAGE (2)
PR: TPA 2223. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects. Open to non-majors. Lecture and Laboratory.

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

TPA 3810 INTRODUCTION TO PUPPETRY (3)
PR: Completion of the four required 2000 level courses. Principles and methods of puppetry with a historical survey of major forms and practical problems with laboratory production. Open to 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 total of 8 hours. Open to non-majors with CI.

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

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

TPA 4060 SCENE DESIGN (4)
PR: TPA 4211, THE 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 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 design/scenic and lighting.

TPA 4230 COSTUME CONSTRUCTION (3)
PR: TPA 3086, TPA 2232 or CI. A practical course in the drafting of workable 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, corsetry; 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: Either TPA 4211 or TPA 4230. A study of the technical operation and organization for the theatre technologist in costume or in scenery/lighting. Advanced problems in technology and organization.

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

TPP 2110 VOICE-BODY-IMPROVISATION (3)
PR: TPA 4402. 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 and CI.

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

TPP 3122 IMPROVISATION II (3)
PR: TPP 3121; audition. A concentrated study of advanced techniques in improvisational skills as applied to the use of scenario. Depending on ensemble capabilities, the course will culminate in a classroom improvisational presentation. Open to non-majors with CI.

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

TPP 4152 SCENE STUDY III
PR: TPP 4140 and audition. Advanced scene study. Required of all theatre majors with a performance concentration.

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

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

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

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

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

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

TPP 4920 SENIOR WORKSHOP FOR ACTORS
PR: TPP 4152, TPP 3500, TPP 3790L. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.
COLLEGE OF NATURAL SCIENCES

ASTRONOMY

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

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

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

AST 3033 CONTEMPORARY THINKING IN ASTRONOMY (3)
PR: Junior or Senior Standing or CI. 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 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 3044C ARCHAEOASTRONOMY (3)
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-lab.

AST 3652 NAVIGATION (3)
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, navigation with minimum equipment, some spherical astronomy.

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

AST 5506 INTRODUCTION TO CELESTIAL MECHANICS (3)
PR: MAC 3313 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

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

BIOLOGY


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

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

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

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

APB 3110 MAN, MICROBE AND MOLECULE (3)

APB 3595 FUNDAMENTALS OF TUMOR BIOLOGY (3)
PR: PCB 4023C. A detailed examination of current information on cancer etiology, tumor cell growth and regulation, and host-tumor relationships.

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

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

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

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

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

BSC 4910 UNDERGRADUATE RESEARCH (1-4)
PR: CI and CC. Individual investigation with faculty supervision. (S/U only.)

BSC 5900 SEMINAR IN BIOLOGY (1)
Senior or advanced junior standing. May be repeated once. (S/U only.)

BSC 4933 SELECTED TOPICS IN BIOLOGY (1-3)
BSC 5931 SELECTED TOPICS IN BIOLOGY (1-3)
Each topic is a course in directed study under supervision of faculty member.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3063</td>
<td>GENERAL GENETICS</td>
<td>(3)</td>
<td>PR: 1 year major’s Biology. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lec.-dis.</td>
</tr>
<tr>
<td>PCB 4023C</td>
<td>CELL BIOLOGY</td>
<td>(4)</td>
<td>PR: CHM 3211, CHM 3211L and PCB 3063. A discussion of the concept and significance of the cell to biology; biological molecules and cellular energy conversion systems; and control of cellular metabolism. Lec.-lab.</td>
</tr>
<tr>
<td>PCB 4043C</td>
<td>PRINCIPLES OF ECOLOGY</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>PCB 4064</td>
<td>EXPERIMENTAL GENETICS</td>
<td>(3)</td>
<td>PR: PCB 3063. Experimental analysis of genetic systems, Lec.-lab.</td>
</tr>
<tr>
<td>PCB 4253</td>
<td>DEVELOPMENTAL BIOLOGY</td>
<td>(3)</td>
<td>PR: PCB 4023. Topics in modern developmental biology to be covered in lecture and readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals. Recommended that student has taken BOT 2010C and ZOO 2010C.</td>
</tr>
<tr>
<td>PCB 4674</td>
<td>ORGANIC EVOLUTION</td>
<td>(3)</td>
<td>PR: PCB 3063. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.</td>
</tr>
<tr>
<td>PCB 5115C</td>
<td>CYTOGENETICS</td>
<td>(3)</td>
<td>PR: PCB 4023. Survey of the structure and function of cytoplasmic and nuclear components of plant and animal cells. Lec.-lab.</td>
</tr>
<tr>
<td>PCB 5235C</td>
<td>PRINCIPLES OF IMMUNOLOGY</td>
<td>(3)</td>
<td>PR: PCB 4023 or MCB 3020C. Course will emphasize the biological principles involved in the vertebrate immune response. It will present the homeostatic, defense, and detrimental aspects of the immune system in terms of basic cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist.</td>
</tr>
<tr>
<td>PCB 5415</td>
<td>BEHAVIORAL ECOLOGY</td>
<td>(3)</td>
<td>PR: ZOO 2010C, PCB 4043. An emphasis on the evolutionary mechanisms that influence an organism’s behavioral responses to environmental events. The theoretical framework is presented and analyzed. Intended for majors.</td>
</tr>
<tr>
<td>PCB 5525C</td>
<td>MOLECULAR GENETICS</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>PCB 5615</td>
<td>EVOLUTIONARY GENETICS</td>
<td>(3)</td>
<td>PR: PCB 3063. Examination of factors such as mutation, migration, natural selection, and genetic drift which modify the genetic structure of populations.</td>
</tr>
<tr>
<td>PCB 5835C</td>
<td>NEUROPHYSIOLOGY</td>
<td>(3)</td>
<td>PR: PCB 4023CA comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.</td>
</tr>
</tbody>
</table>

**BOTANY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>BOT 3143C</td>
<td>FIELD BOTANY</td>
<td>(3)</td>
<td>PR: BOT 2010C. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field. Lec.-lab. (Summer)</td>
</tr>
<tr>
<td>BOT 3823C</td>
<td>HORTICULTURAL BOTANY</td>
<td>(2)</td>
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**Mycology**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BOT 4223C</td>
<td>PLANT ANATOMY</td>
<td>(3)</td>
<td>PR: BOT 2010C. Comparative studies of tissue and organ systems of fossil and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec.-lab. (Fall semester, even years).</td>
</tr>
<tr>
<td>BOT 4434C</td>
<td>MYCOLOGY</td>
<td>(3)</td>
<td>PR: BOT 2010C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab. (Summer).</td>
</tr>
<tr>
<td>BOT 4503</td>
<td>PLANT PHYSIOLOGY</td>
<td>(4)</td>
<td>PR: PCB 4023C. Fundamental activities of plants; absorption, translocation, transpiration, metabolism, growth, and related phenomena. Lec.-lab. (Fall semester).</td>
</tr>
<tr>
<td>BOT 4713C</td>
<td>PLANT TAXONOMY</td>
<td>(4)</td>
<td>PR: BOT 2010C. Identification and classification of the more interesting vascular plants of Florida; angiosperm evolution; principles of taxonomy. Conducted largely in the field. Lec.-lab. (Fall semester, odd years).</td>
</tr>
<tr>
<td>BOT 4933</td>
<td>SEMINAR IN BOTANY</td>
<td>(1)</td>
<td>PR: Senior or advanced junior standing. May be repeated once. (S/U only. Spring &amp; Fall semesters, irregular).</td>
</tr>
<tr>
<td>BOT 5156</td>
<td>TAXONOMY OF FLORIDA VASCULAR PLANTS</td>
<td>(3)</td>
<td>PR: BOT 3143C OR BOT 4713C or CI. Identification of native and naturalized vascular plants of Florida; species composition of major plant communities. Field trips emphasized. Lec.-lab.</td>
</tr>
<tr>
<td>BOT 5185C</td>
<td>MARINE BOTANY</td>
<td>(3)</td>
<td>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. (Fall semester, odd years).</td>
</tr>
<tr>
<td>BOT 5725C</td>
<td>EVOLUTION OF FLOWERING PLANTS</td>
<td>(3)</td>
<td>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. (Spring semester, even years).</td>
</tr>
<tr>
<td>BOT 5938</td>
<td>SELECTED TOPICS IN BOTANY</td>
<td>(1-3)</td>
<td>Each topic is a course in directed study under supervision of a faculty member.</td>
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</tbody>
</table>

**MICROBIOLOGY**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>APB 4053C</td>
<td>APPLIED AND ENVIRONMENTAL MICROBIOLOGY</td>
<td>(4)</td>
<td>PR: MCB 3020C. A study of the applications of microbiology to industry, agriculture, medicine, and sanitary engineering. Lec.-lab.</td>
</tr>
<tr>
<td>APB 5575C</td>
<td>MEDICAL MYCOLOGY</td>
<td>(4)</td>
<td>PR: MCB 3020C. A survey of the yeasts, molds, and actinomycetes most likely to be encountered by the bacteriologists, with special emphasis on the forms pathogenic for man.</td>
</tr>
<tr>
<td>MCB 3020C</td>
<td>INTRODUCTION TO MICROBIOLOGY</td>
<td>(4)</td>
<td>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 bac-</td>
</tr>
</tbody>
</table>
teria, algae, viruses, protozoa, and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec.-lab.

MCB 4115 DETERMINATIVE BACTERIOLOGY (5)
PR: MCB 3020C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec.-lab.

MCB 4404 MICROBIAL PHYSIOLOGY (4)
PR: MCB 3020C, PCB 4023C. A study of physiological and metabolic phenomena pertinent to the growth, development, regulation, inhibition and death of microorganisms and to the chemical alterations they catalyze. Lec.-lab.

MCB 5936 SELECTED SEMINAR IN MICROBIOLOGY (1)
PR: Senior or advanced junior standing. May be repeated. (S/U only.)

MCB 5206 PUBLIC HEALTH AND PATHEGENMIC MICROBIOLOGY (3)
PR: MCB 3020C. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5605 MICROBIAL ECOLOGY (4)
PR: MCB 3020C. A study of theory and methodology of the quantification of microbial processes in natural habitats with special emphasis on aquatic and terrestrial systems. Lec.-lab.

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

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

ZOOLOGY

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

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

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

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

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

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

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

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

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

ZOO 3713C COMPARATIVE VERTEBRATE ANATOMY (4)
PR: ZOO 2010C. Anatomy of selected vertebrate types emphasizing evolutionary trends. (Spring Sem.)

ZOO 3823C BIOLOGY OF TERRESTRIAL ARTHROPODS (4)
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 4503C ANIMAL SOCIAL BEHAVIOR (4)
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 (3)
PR: ZOO 4503C. An introduction to primate social behavior and behavioral ecology.

ZOO 4693 ANIMAL EMBRYOLOGY (4)
PR: PCB 4023C. Structural and functional events involved in differentiation and morphogenesis. Lec.-lab.

ZOO 4893 WILDLIFE AND FISH MANAGEMENT (2)
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.

ZOO 5235C PARASITOLOGY (4)
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 (4)
PR: ZOO 3713C, CI and CC. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

ZOO 5475C ORNITHOLOGY (4)

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

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

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

CHEMISTRY

Chairperson: S. W. Schneller; Graduate Research Professor: R. M. Castle; Professors: J. S. Binford, Jr., R. S. Braman, J. C. Davis, Jr., J. E. Fernandez, G. R. Jurch, Jr., L. Mandell, D. F. Martin, P. C.
### 212 COLLEGE OF NATURAL SCIENCES


<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CHM 3033</td>
<td>INTRODUCTORY BIOCHEMISTRY</td>
<td>PR: CHM 3200 or CHM 3211 and BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.</td>
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</tr>
<tr>
<td>CHM 3033L</td>
<td>BASIC BIOCHEMISTRY LABORATORY</td>
<td>PR: CHM 3033. Practical work in determination and characterization of biomolecules. Lec-lab.</td>
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</tr>
<tr>
<td>BCH 5065</td>
<td>BIOCHEMISTRY CORE COURSE</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CHM 2021</td>
<td>CHEMISTRY FOR TODAY</td>
<td>A one semester terminal course designed to survey some of the important concepts and technologies of modern chemistry. No credit for science majors.</td>
<td></td>
</tr>
<tr>
<td>CHM 2030</td>
<td>INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I</td>
<td>First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.</td>
<td></td>
</tr>
<tr>
<td>CHM 2031</td>
<td>INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II</td>
<td>PR: CHM 2030. Second half of general, biological and organic chemistry. No credit for science majors.</td>
<td></td>
</tr>
<tr>
<td>CHM 2045</td>
<td>GENERAL CHEMISTRY I</td>
<td>PR: CHM 2045. Two years of High School Algebra and one course in High School Chemistry is strongly recommended. Fundamentals of chemistry; mass and energy relationships in chemical changes, equilibrium, chemical kinetics, atomic and molecular structure, descriptive chemistry of selected elements. Lec.-dis.</td>
<td></td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>GENERAL CHEMISTRY I LABORATORY</td>
<td>PR: CHM 2045. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.</td>
<td></td>
</tr>
<tr>
<td>CHM 2046</td>
<td>GENERAL CHEMISTRY II</td>
<td>PR: CHM 2045 OR EQUIVALENT. Continuation of General Chemistry. Lec.-dis.</td>
<td></td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>GENERAL CHEMISTRY II LABORATORY</td>
<td>PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.</td>
<td></td>
</tr>
<tr>
<td>CHM 2932</td>
<td>SELECTED TOPICS IN CHEMISTRY</td>
<td>Topics of interest to students relating to chemistry and other sciences.</td>
<td></td>
</tr>
<tr>
<td>CHM 3020</td>
<td>CURRENT ISSUES IN CHEMISTRY</td>
<td>A survey of the important current issues in which chemistry affects our lives; e.g., environment, drugs, cancer, warfare, etc. No credit for chemistry majors.</td>
<td></td>
</tr>
<tr>
<td>CHM 3200</td>
<td>ORGANIC CHEMISTRY</td>
<td>PR: CHM 2046 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alky halides, alcohols, phenols, ethers, sulfur analogs and other compounds. A one-semester course.</td>
<td></td>
</tr>
<tr>
<td>CHM 3210N</td>
<td>ORGANIC CHEMISTRY I</td>
<td>PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.</td>
<td></td>
</tr>
<tr>
<td>CHM 3211</td>
<td>ORGANIC CHEMISTRY II</td>
<td>PR: CHM 3210 or equivalent. Continuation of organic chemistry. Lecture.</td>
<td></td>
</tr>
<tr>
<td>CHM 3400</td>
<td>ELEMENTARY PHYSICAL CHEMISTRY I</td>
<td>PR: CHM 2046, CHM 2046L, MAC 3231 or MAC 3311, PHY 2054, PHY 2054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.</td>
<td></td>
</tr>
<tr>
<td>CHM 3401</td>
<td>ELEMENTARY PHYSICAL CHEMISTRY II</td>
<td>PR: CHM 3400. Reaction kinetics, enzyme kinetics, molecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.</td>
<td></td>
</tr>
<tr>
<td>CHM 3402</td>
<td>ELEMENTARY PHYSICAL CHEMISTRY LABORATORY</td>
<td>PR: CHM 3120 and 3120L. CR: CHM 3400 and/or CHM 3401. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.</td>
<td></td>
</tr>
<tr>
<td>CHM 3610C</td>
<td>INTERMEDIATE INORGANIC CHEMISTRY</td>
<td>PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry. Lec.-lab.</td>
<td></td>
</tr>
<tr>
<td>CHM 4060</td>
<td>USE OF THE CHEMICAL LITERATURE</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CHM 4070</td>
<td>HISTORICAL PERSPECTIVES IN CHEMISTRY</td>
<td>PR: One year of college chemistry; or senior standing, and CI. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.</td>
<td></td>
</tr>
<tr>
<td>CHM 4130C</td>
<td>METHODS OF CHEMICAL INVESTIGATION</td>
<td>PR: CHM 3120C, CHM 3211, CHM 3211L, CHM 4060. CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects.</td>
<td></td>
</tr>
<tr>
<td>CHM 4131C</td>
<td>METHODS OF CHEMICAL INVESTIGATION II</td>
<td>PR: CHM 4130C. Continuation of CHM 4130C.</td>
<td></td>
</tr>
<tr>
<td>CHM 4300</td>
<td>BIOMOLECULES I</td>
<td>PR: CHM 3211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.</td>
<td></td>
</tr>
</tbody>
</table>
CHM 4410 PHYSICAL CHEMISTRY I (3)  
PR: CHM 3120C and MAC 3282 or MAC 3312, and PHY 2054 or PHY 3049. Thermodynamics, the states of matter, solutions. Lec.

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

CHM 4412 PHYSICAL CHEMISTRY III (3)  

CHM 4610 ADVANCED INORGANIC CHEMISTRY (3)  
PR: CHM 3610 and CHM 4410 or CI. An advanced theoretical treatment of inorganic compounds. Lec.

CHM 4905 INDEPENDENT STUDY (1-3)  
PR: CI. Specialized independent study determined by the student’s needs and interests. The written contract required by the College of Natural Sciences specifies the regulations governing independent study. May be repeated. (S.U only)

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

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

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

CHM 5226 INTERMEDIATE ORGANIC CHEMISTRY II (3)  
PR: CHM 5225 or CI. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.

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

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

CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY (3)  
PR: CHM 4411 or CI. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course. Lec.

CHM 5931 SELECTED TOPICS IN CHEMISTRY (1-3)  
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.

CHS 4100C RADIOCHEMISTRY (3)  

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

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

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

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

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

GEOLGY 213

GEOLOGY

Chairpersons: S. B. Upchurch; Professors: R. A. Davis, Jr., M. T. Stewart, S. B. Upchurch; Associate Professors: R. N. Strom, H. L. Vacher; Assistant Professors: M. J. Defanti, R. J. Hooper, B. W. Nocita; Courtesy Faculty: Professors: A. Rosenzweig; Research Associates: B. W. Leyden, G. Schwartzman, T. M. Scott, R. Stewart; Assistant Curators: B. R. Marcin, E. J. Marcin.

GEOLOGY 2101 (formerly GLY 2101) PHYSICAL GEOLOGY (4)  
Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms. Lec.-lab.

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

GEOLOGY 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.

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

GEOLOGY 3400 STRUCTURAL GEOLOGY (4)  
PR: 12 hours of geology, MAC 2132 or equivalent or 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.

GEOLOGY 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 of similar organisms. Stratigraphic distribution of major groups. Lec.-lab.

GEOLOGY 3830 GEOLOGY FOR ENGINEERS (3)  
PR: Junior 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 2100.)

GEOLOGY 4200 MINERALOGY-PETROLOGY I (4)  
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.

GEOLOGY 4220 MINERALOGY-PETROLOGY II (5)  
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 STRATIGRAPHY AND PETROLEUM**

**GEOLGY**

PR: GLY 4550. Emphasis on classical principles of litho- and biostratigraphy, basin analysis, geophysical well logging, origin and occurrence of petroleum. Exploration methods are emphasized. Lec.-lab.

**GLY 4550 DEPOSITIONAL SYSTEMS**

PR: GLY 2010, GLY 2100 or equivalent. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional and marine sedimentary environments will be examined in light of their 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 CI. 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 geography 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 geography courses or CI. Fundamentals of geology in the field: compass and plane table mapping, mapping on aerial photos, reconnaissance surveys, interpretation of geologic structure. Lec.-lab.-field trips.

**GLY 4791 FIELD CAMP PART I - FIELD METHODS**

PR: CI. Senior standing. Linked with Field Camp II. Basic field methods; use of pocket transit, techniques of field locations, pace and compass traversing, techniques for lithological and structural data collection, fundamentals of geological data presentation and map making. Field camp is located in northern New Mexico. Requires camping and vigorous physical activity. Lec.-field work.

**GLY 4792 FIELD CAMP PART II - FIELD GEOLOGY**

PR: CI. Senior standing. Linked with Field Camp I. Fundamentals of regional field geology; mapping sedimentary, metamorphic and igneous rocks on topographic base maps; interpretation of depositional environments; interpretation of deformational and metamorphic histories. Requires camping and vigorous physical activity. Lec.-field work.

**GLY 4816 ECONOMIC MINERAL DEPOSITS**

PR: 16 hours of geology or CI. Principles involved in the origin, occurrence, recovery, and use of mineral resources. Lec.-lab.-field trips.

**GLY 4820 INTRODUCTION TO HYDROGEOLOGY**

PR: GLY 2010, 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.-lab.-field trips.

**GLY 4905 INDEPENDENT STUDY**

(1-3) PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated. (S.U only)

**GLY 4915 UNDERGRADUATE RESEARCH**

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

**GLY 4920 GEOLOGY COLLOQUIUM**

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

**GLY 4930 SELECTED TOPICS IN GEOLOGY**

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

**OCE 3981 INTRODUCTION TO OCEANOGRAPHY**

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

**GLY 5241 GENERAL GEOCHEMISTRY**

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

**GLY 5245 ANALYTICAL TECHNIQUES IN GEOLOGY**

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

**GLY 5450 PRINCIPLES OF APPLIED GEOPHYSICS**

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

**GLY 5752 GEOLOGICAL FIELD EXCURSION**

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

**GLY 5825 ADVANCED HYDROGEOLOGY**

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

**GLY 5890 STATISTICAL MODELS IN GEOLOGY**

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

**GLY 5932 SELECTED TOPICS IN GEOLOGY**

(1-4) PR: Senior or advanced junior standing and 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.

**MARINE SCIENCE**


Graduate Courses

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

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

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

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

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

OCC 5455 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.

OCB 5061 PHYSICAL OCEANOGRAPHY (3)
PR: Graduate standing, C. PHY 3042. The world ocean including its morphology, physical properties, currents, waves, tides, heat budget, and related topics. Lec.-lab.

ZOO 5456C ICHTHYOLOGY (4)
PR: CI or senior or graduate status; BSC 2010C, BSC 2012, PCB 4674 (helpful), ZOO 3713C (helpful). The evolution systematics, and ecology of fishes. (Also listed under Zoology.)

MATHEMATICS


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

COP 4210 MATHEMATICAL PROBLEM SOLVING USING PASCAL -6A (3)
PR: MAS 3103, and the ability to program at least one other language. The highly structured programming language PASCAL is used to solve numerical and non-numerical problems in mathematics involving graph theory, combinatorics, and number theory. Non-numerical data structures and algebraic manipulation are emphasized.

MAA 4211 ADVANCED CALCULUS I -6A (4)
PR: MAC 3313 or MAC 3283 with a grade of "C" or better, MAS 4301 and MAS 3103 or CI. A theoretical treatment of differential and integral calculus of one and several variables. Emphasis on techniques of proof. Topics covered include: infinite series, the Riemann integral, multiple integrals, line and surface integrals, Stokes' theorem, and the implicit function.

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

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

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

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

MAA 5406 TOPICS IN COMPLEX ANALYSIS (3)
PR: MAA 5405. Univalent and Multivalent functions, entire functions, approximation theory in the plane.

MAC 2102 COLLEGE ALGEBRA -6A (3)
PR: Passing score on placement test. Students should have the equivalent of two years high school math including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus. Real numbers and their properties, algebraic expressions, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Not for math majors. (No credit for students with credit in MAC 2132.)

MAC 2114 (formerly MAC 1114) COLLEGE TRIGONOMETRY -6A (2)
PR: Pass placement test. Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)

MAC 2132 (formerly MAC 1132) COLLEGE ALGEBRA AND TRIGONOMETRY -6A (4)
PR: Two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033, taught on USF campus or CC, pass placement test in algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for MAC 2132 for students with credit in MAC 2233 or MAC 2102.)

MAC 2233 ELEMENTARY CALCULUS I -6A (4)
PR: Pass placement test in algebra. Students should have two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus or CC. Algebra, functions, differentiation, applications. MAC 2233-MAC 2234 is primarily for students from Biological Sciences, Social Sciences, and Business. (No credit for math majors or students with credit in MAC 3281 or MAC 3311.)

MAC 2234 ELEMENTARY CALCULUS II -6A (4)
PR: MAC 2233. Antiderivatives, the definite integral, techniques of integration, logarithmic and exponential functions, applications. (No credit for Mathematics majors or students with credit in MAC 3282 or MAC 3312.)
MAC 3281 ENGINEERING CALCULUS I -6A (3)
PR: MAC 2132 with a "C" or better or CC. Pass placement tests in algebra and trigonometry. Differentiation, limits, differentials, extrema, indefinite integrals. (No credit for students with credit in MAC 2233 or MAC 3311.)

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

MAC 3283 ENGINEERING CALCULUS III-6A (3)
PR: MAC 3282. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3313.)

MAC 3311 CALCULUS I -6A (4)
PR: MAC 2132 with a grade of "C" or better or CC. Pass placement tests in algebra and trigonometry. Limits, derivatives, applications. No credit for students with credit in MAC 2233 or MAC 3281.

MAC 3312 CALCULUS II -6A (4)
PR: MAC 3311 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, log, exponential and trig functions. (No credit for students with credit in MAC 2234 or MAC 3282.)

MAC 3313 CALCULUS III -6A (4)
PR: MAC 3312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals. (No credit for students with credit in MAC 3283.)

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

MAD 4401 NUMERICAL ANALYSIS -6A (4)
PR: MAS 3103; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

MAD 5101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS (3)
PR: Programming experience or CI. The powerful algebraic language LISP is introduced. The course covers (1) programming in LISP, (2) functional languages, (3) foundations in the Lambda Calculus, and (4) algebraic applications in artificial intelligence (theorem proving and game playing).

MAD 5305 INTRODUCTION TO GRAPH THEORY (3)
PR: CC. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

MAE 5874 ABSTRACT ALGEBRA FOR TEACHERS (3)
PR: MAS 3103 and MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for Mathematics majors.)

MAE 5876 MATHEMATICAL ANALYSIS FOR TEACHERS (3)
PR: MAC 3313 and bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)

MAP 4302 DIFFERENTIAL EQUATIONS -6A (3)
PR: MAC 3313. First order linear and nonlinear differential equations, higher order linear differential equations, applications.

MAP 5205 MATHEMATICAL OPTIMIZATION THEORY I (3)
PR: MAS 3103 and MAA 4211, or equivalent. Content: Unconstrained and linearly constrained extrema linear and non linear programming, application to matrices and quadratic forms, Lagrange multiplier rule for equality constraints.

MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I (3)
PR: MAP 4302, MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II (3)
PR: MAP 5316 or MAA 5307 or MAA 4211. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS (3)
PR: MAP 5407 and CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.

MAP 5407 METHODS OF APPLIED MATHEMATICS (3)

MAS 3103 LINEAR ALGEBRA -6A (3)
PR: MAC 3311, MAC 3281, or CI. Linear equations, matrices, real vector spaces, relationship between linear transformations and matrices, determinants, inner product spaces, eigenvalues and eigenvectors.

MAS 4124 NUMERICAL LINEAR ALGEBRA -6A (3)
PR: MAS 3103. This course will consider efficient and stable numerical methods for dealing with matrix computations such as the solution of systems, calculation eigenvalues and vectors, least squares, and so on.

MAS 4156 VECTOR ANALYSIS -6A (3)
PR: MAC 3313 or MAC 3283 or CI. The algebra and calculus of vectors, line and surface integrals, Divergence Theorem, Stokes' Theorem, generalized coordinates, applications. (No credit for both MAA 4211 and MAS 4156.)

MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A (3)
PR: MAS 3311, MAC 3281, or CI. An introduction to basic set theory; sets, functions, and relations. An introduction to the basic algebraic structures: groups, rings, and fields. Homomorphisms and isomorphisms. A rigorous treatment of the real and complex number systems.

MAS 5107 ADVANCED LINEAR ALGEBRA (3)
PR: MAS 3103, MAS 4301 or MAA 3102. The study of finite dimensional vector spaces over arbitrary fields. Topics covered include dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary and self-adjoint operators and quadratic forms.

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

MAS 5311 ALGEBRA I (3)
PR: MAC 3313, MAS 5107, MAS 4301. An introduction to group theory.

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

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

MAT 4906 INDEPENDENT STUDY -6A (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.)
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**MEDICAL TECHNOLOGY**

**Director:** E. D. Olsen; **Professor:** F. E. Friedel, E. D. Olsen; **Associate Professors:** D. B. Lim, S. H. Grossman; **Assistant Professors:** G. W. Arendash, R. L. Potter; **Consulting Professors:** I. L. Browarsky (Tampa General Hospital), W. Burgert (Tallahassee Memorial Regional Medical Center), L. J. Davis, (Bayfront Medical Center), N. M. Hardy (University Hospital of Jacksonville), R. F. Holcomb (Florida Hospital), F. C. Holland (Baptist Medical Center), L. B. Rosen (Mount Sinai Medical Center); **Lecturers:** G. Atz (Baptist Medical Center), W. M. Dauphine (Mount Sinai Medical Center), S. Durand (Bayfront Medical Center), M. Hill (Tampa General Hospital), L. B. Marr (Tallahassee Memorial Regional Medical Center), S. Pemberton (Baptist Medical Center), P. Rogers (Florida Hospital), J. D. Sigler (University Hospital of Jacksonville), J. Ulrich (Bayfront Medical Center).
COLLEGE OF NATURAL SCIENCES

MLS 3031 INTRODUCTION TO MEDICAL TECHNOLOGY (1)
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 (2)
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 (4)
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 (6)
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction in the methods of study of hematological disorders. A hospital internship course for medical technology majors.

MLS 4405 CLINICAL BACTERIOLOGY (6)
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 (4)
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 (1)
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 (6)
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


PHZ 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY (2)
PR: One year of non-calculus general physics. CR: MAC 3283 or MAC 3313. Designed for students who have not had the general physics sequence using calculus. Review of mechanics and electricity emphasizing problems which involve the use of calculus. Semesters: Fall, Spring.

PHZ 3102 PROBLEMS IN GENERAL PHYSICS I (1)
CR: PHY 3048. First semester of two semester sequence of general physics problems. A course designed to allow those interested students to investigate problems not covered in the general physics course. Lec. Semesters: Fall, Spring, Summer.

PHZ 3103 PROBLEMS IN GENERAL PHYSICS II (1)

PHZ 5115 METHODS OF THEORETICAL PHYSICS I (3)
PR: MAP 4302 or Cl. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus. Fall Semester.

PHZ 5116 METHODS OF THEORETICAL PHYSICS II (3)
PR: MAP 4302 or Cl. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory. Spring Semester.

PHZ 5304 NUCLEAR PHYSICS (3)
PR: PHY 4604 or Cl. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics. Spring Semester.

PHZ 5405 SOLID STATE PHYSICS I (3)
PR: PHY 3101, MAP 4302. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426. Spring Semester.

PHZ 5505 PLASMA PHYSICS I (3)
PR: PHY 4324C or Cl. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation. Instabilities. Fall Semester.

PHY 2038 ENERGY AND HUMANITY (3)
Social, economic, and political aspects of energy, including energy conservation, energy alternatives, personal use of solar energy, and changing lifestyle. Field trips and audiovisual presentations play important roles.

PHY 2053, 2053L GENERAL PHYSICS AND LABORATORY (3, 1)
First semester of a two semester sequence of general physics (mechanics, heat, electricity, wave motion, optics) and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 2054, 2054L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: PHY 2053, PHY 2053L. 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 (4)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics or mathematics majors.) Semesters: Fall, Spring, Summer.

PHY 3048, 3048L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3281 or MAC 3311. First semester of 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 3049, 3049L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3282 or MAC 3321, PHY 3048, PHY 3048L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 3101 MODERN PHYSICS (3)
PHY 3221 MECHANICS I  
CR: MAC 3283 or MAC 3313 and either PR: PHY 3048 or PHY 3101. First semester of a two semester sequence. Review of vectors, vector calculus, and systems of particles; central forces; rotation about an axis; statics; and virtual work. Fall Semester.

PHY 3323C ELECTRICITY AND MAGNETISM I  
PR: PHY 3049, MAC 3283 or MAC 3313. Electromagnetic circuits; resistance, capacitance, inductance, direct and alternating current circuits, theoremo-electricity, and instrumentation. Laboratory. First semester of sequence PHY 3323C, PHY 4324C.

PHY 3424 OPTICS  
PR: PHY 3101 or PHY 3049; CR: MAC 3283 or MAC 3313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory. Fall Semester.

PHY 3822L INTERMEDIATE LABORATORY  
PR: PHY 3101 or PHY 3049 or equivalent. Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena. Fall Semester.

PHY 4222 MECHANICS II  
PR: PHY 3121; CR: MAP 4302. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange’s and Hamilton’s equations; inertia tensor, general rotation of rigid bodies. Spring Semester.

PHY 4324C ELECTRICITY AND MAGNETISM II  
PR: PHY 3323C or CI. CR: MAP 4302. Electrostatic fields, magnetic fields of steady currents, dielectrics and magnetic materials, Maxwell’s equations. Second semester of sequence PHY 3323C, PHY 4324C. Fall Semester. Laboratory.

PHY 4471 FUNDAMENTAL ACOUSTICS  
PR: PHY 3223 or CI. Vibrations of elastic media, sound generation and propagation. Acoustical, electrical, and mechanical energy conversion. Underwater acoustics. Fall Semester.

PHY 4523 STATISTICAL PHYSICS  

PHY 4604 QUANTUM MECHANICS I  
PR: PHY 3101 or CI. Postulates, Schrodinger’s equation, onedimensional problems, matrix mechanics, uncertainty principle, angular momentum, and central forces. First semester of sequence PHY 4604, PHY 5624. Fall Semester.

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

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

PHY 4905 INDEPENDENT STUDY  
PR: 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.) Semesters: Fall, Spring, Summer.

PHY 4930 PHYSICS SEMINAR  
PR: Senior or advanced junior standing or CC. Each topic is a course in directed study and under the supervision of a faculty member. May be repeated. (S/U only.) Semesters: Fall, Spring, Summer.

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

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

PHY 5722C ELECTRONICS  

PHY 5907 SELECTED TOPICS IN PHYSICS  
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.
NUR 3456L 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. Incorporates psychomotor skills, nutrition pharmacology, psychosocial and community aspects.

NUR 3536L NURSING INTERVENTION III (2)
PR: Permission of faculty. Development of nursing process as it relates to mental health-psychiatric nursing needs of clients. Integrates pathologic, nutrition, pharmacology and essential psychomotor skills of all ages.

NUR 3615 NURSING PROCESS I (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 3615L NURSING INTERVENTION I (2)
PR: Permission of faculty. Clinical nursing practice course linked to Nursing Process I. Focuses on meeting the mental health-psychiatric nursing needs of clients of all ages. Includes pathologic, nutrition, pharmacology, essential psychomotor skills and community aspects.

NUR 3654 (formerly NUR 4654) NURSING CONCEPTS IN SECONDARY CARE (4)
PR: RN Student; CI. The focus of this course is on the concepts, theory, and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

NUR 3654L (formerly NUR 4654L) NURSING PRACTICUM I (2)
PR: RN student; CI. The focus of this course is on the implementation of concepts, theory and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

NUR 3829 ETHICAL-LEGAL ASPECTS IN NURSING AND HEALTH CARE (2)
PR: Permission of faculty. Continuation of previous Core course.

NUR 3835 LEADERSHIP MANAGEMENT ASPECTS IN NURSING AND HEALTH CARE (2)
PR: Permission of faculty. Continuation of previous core courses.

NUR 4075 TRANSCULTURAL NURSING (2)
Open to both students and caregivers in health-related fields. Designed to assist students to become aware of own values as related to various cultural groups and to identify health practices and beliefs of these groups, health resources available and adaptive measures by caregivers to meet their needs.

NUR 4165 INTRODUCTION TO RESEARCH (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 systems and on nursing research.

NUR 4256 NURSING PROCESS V (2)
PR: Permission of faculty. Introduction to nursing with clients in secondary and tertiary care settings, including fluid and electrolyte balance, surgical care cycle and disturbances in cell growth and proliferation. Includes pathophysiology, nutrition, psychosocial aspects, pharmacology and psychomotor skills.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NUR 4257</td>
<td>NURSING PROCESS VI</td>
<td>(2)</td>
<td>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.</td>
</tr>
<tr>
<td>NUR 4257L</td>
<td>NURSING INTERVENTION V</td>
<td>(6)</td>
<td>PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process VI, VII, VIII) with clients of all ages arising from interferences in metabolic and regulatory functions, oxygenation, mobility and sensory perception.</td>
</tr>
<tr>
<td>NUR 4258</td>
<td>NURSING PROCESS VII</td>
<td>(2)</td>
<td>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.</td>
</tr>
<tr>
<td>NUR 4265</td>
<td>NURSING PROCESS VIII</td>
<td>(2)</td>
<td>PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from interferences in metabolic and regulatory functions, oxygenation, mobility and sensory perception. Integrates pathophysiology, nutrition, essential psychomotor skills and community health aspects.</td>
</tr>
<tr>
<td>NUR 4285L</td>
<td>NURSING INTERVENTION IV</td>
<td>(1)</td>
<td>PR: Permission of faculty. Clinical nursing experience in primary care settings. Includes use of multiple essential assessment skills, development of therapeutic relationships, nutrition and psychosocial health aspects with well elderly.</td>
</tr>
<tr>
<td>NUR 4641 (formerly NUR 3641)</td>
<td>NURSING CONCEPTS IN PRIMARY CARE</td>
<td>(4)</td>
<td>PR: RN student; CI. Focuses on concepts and principles essential to nursing of clients across the lifespan in the community setting.</td>
</tr>
<tr>
<td>NUR 4641L (formerly NUR 3641L)</td>
<td>NURSING PRACTICUM II</td>
<td>(3)</td>
<td>PR: RN; CI. Integrates the concepts and content from NUR 4641 with clients across the lifespan into clinical settings which include public health agencies, VNA, and home health agencies.</td>
</tr>
<tr>
<td>NUR 4827C</td>
<td>LEADERSHIP/MANAGEMENT CONCEPTS FOR NURSING PRACTICE</td>
<td>(4)</td>
<td>PR: CI. Provides a basis for developing leadership skills and management techniques with individuals and groups in selected health care setting.</td>
</tr>
<tr>
<td>NUR 4837</td>
<td>NURSING CORE V</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>NUR 4905C</td>
<td>INDEPENDENT STUDY</td>
<td>(1-5)</td>
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<tr>
<td>NUR 4935</td>
<td>SELECTED TOPIC IN NURSING</td>
<td>(2-8)</td>
<td>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.</td>
</tr>
<tr>
<td>NUR 4943L</td>
<td>NURSING PRACTICUM III</td>
<td>(4)</td>
<td>PR: All preceding courses in prescribed curriculum plan or permission of Dean. Individually planned experience in a clinical and/or functional area of professional nursing which is related to student's professional goals. Associated seminars and/or institutes.</td>
</tr>
<tr>
<td>NUR 4946L</td>
<td>PRECEPTORSHIP</td>
<td>(6)</td>
<td>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.</td>
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</table>

### PUBLIC AND COMMUNITY HEALTH EDUCATION COURSES

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<tbody>
<tr>
<td>HSC 2100</td>
<td>CONTEMPORARY HEALTH SCIENCE</td>
<td>(3)</td>
<td>A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.</td>
</tr>
<tr>
<td>PHC 4100</td>
<td>INTRODUCTION TO PUBLIC HEALTH</td>
<td>(3)</td>
<td>A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.</td>
</tr>
<tr>
<td>HSC 4223</td>
<td>PREVENTIVE HEALTH PRACTICES IN THE WORKPLACE</td>
<td>(3)</td>
<td>PR: CI. The content of this course focuses on a survey of health problems and concerns as they exist in a variety of work environments. No prior education or experience in this area is required.</td>
</tr>
<tr>
<td>HSC 4541</td>
<td>HUMAN STRUCTURE AND FUNCTION</td>
<td>(4)</td>
<td>Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught. Lab included.</td>
</tr>
<tr>
<td>HSC 4554</td>
<td>SURVEY OF HUMAN DISEASES</td>
<td>(3)</td>
<td>PR: Nature, types and mechanisms of human diseases: biological injury due to physical, chemical, biological agents; genetic, metabolic, immunological disorders; neoplasms and infectious diseases; malfunctions of major organ systems.</td>
</tr>
<tr>
<td>HSC 5319</td>
<td>HEALTH PROBLEMS OF SCHOOL AGE POPULATION</td>
<td>(3)</td>
<td>A study of health problems and needs of school age students, including a health status screening laboratory.</td>
</tr>
</tbody>
</table>
African and Afro-American Studies

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

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

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

AFH 3200 AFRICAN HISTORY SINCE 1850 (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.)

AFS 3511 THE AFRICAN DIASPORA AND PAN-AFRICANISM (3)
An examination of the African Diaspora and the influence of African culture and civilization on the growth and development of world culture; and the historical quest for racial and continental pan-Africanism including Garveyism.

AMH 3571, 3572 AFRO-AMERICAN HISTORY (3, 3)
A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America (AMH 3571, 1943-1865; AMH 3572 1865-to 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 1990.

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.

ANTHROPOLOGY

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

ANT 2000 INTRODUCTION TO ANTHROPOLOGY (3)
The 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 cross-cultural view of the human species as adapting through biosocial means to life on this planet. May not be counted for credit toward an anthropology major.

ANT 3100 ARCHAEOLOGY (3)
PR: ANT 2000 or CI. The crosscultural study of humankind from its beginnings up to and including the historic period through the recovery, description, and analysis of the remains of past cultures and societies.

ANT 3410 CULTURAL ANTHROPOLOGY (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 world views.

ANT 3511 BIOLOGICAL 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 THEORIES OF CULTURE (3)
PR: Senior standing with major in anthropology or equivalent. The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

ANT 4124 ARCHAEOLOGICAL FIELD METHODS (4)
PR: ANT 3100 or 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, Moche, 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. Normally offered as part of a Summer Field Session. Students also enroll in Florida Archaeology and Laboratory 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 4226 POLK AND TRIBAL 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 cross-cultural materials. Consideration of diffusion and change of art forms, commercial and ethnic arts, and role of the artist.

ANT 4231 FOLKLORE (3)
PR: ANT 3410 or 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 MAGIC AND 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 SEX ROLES 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 an anthropological study that expresses 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 NORTH AMERICAN INDIANS (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 THE 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 MEXICO AND CENTRAL AMERICA (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 THE CARIBBEAN (3)
PR: ANT 3410 or Cl. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary 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 4367 THE MIDDLE EAST (3)
PR: ANT 3410 or Cl. Delineates the environment and cultural ecology of the Middle East and analyzes how they have influenced the variety of subcultures of the region. The rise and fall of the "little tradition" of the enduring folk cultures will be analyzed. Contemporary culture change will be analyzed in a temporal perspective.

ANT 4432 THE INDIVIDUAL AND CULTURE (3)
PR: ANT 3410 or Cl. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

ANT 4442 URBAN LIFE AND CULTURE (3)
PR: ANT 3410 or Cl. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

ANT 4462 HEALTH, ILLNESS, AND CULTURE (3)
PR: ANT 3410 or Cl. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems in their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.

ANT 4495 METHODS IN CULTURAL RESEARCH (3)
PR: Cl. The stages in the development and execution of ethnographic research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

ANT 4542 CULTURE AND HUMAN EVOLUTION (3)
PR: ANT 3511 or Cl. A survey of the many ways in which behavior and technology influence the biology of prehistoric and modern human populations. Phenomena such as curing 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 Cl. A survey of non-human primates focusing on biological and evolutionary patterns. Anatomy, genetics, and evolution are stressed; major primate types are surveyed for their biological adaptation. Primate sociobiology is discussed.

ANT 4553 HUMAN VARIATION (3)
PR: ANT 3511 or Cl. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.

ANT 4586 PREHISTORIC HUMAN EVOLUTION (3)
PR: ANT 3511 or Cl. A survey of the fossil record from the early primates through the ascendency of Homo sapiens sapiens, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.

ANT 4620 LANGUAGE AND CULTURE (3)
PR: ANT 3610 or Cl. Examines the relationships between language and culture in crosscultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

ANT 4705 APPLIED ANTHROPOLOGY (3)
PR: ANT 3410 or Cl. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

ANT 4750 LANGUAGE AND SOCIAL INTERACTION (3)
PR: ANT 3610 or Cl. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the crosscultural description and analysis of patterns of communication in ethnographic contexts.

ANT 4901 DIRECTED READING (1-4)
PR: Cl. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

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

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

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

ANT 4935 RETHINKING ANTHROPOLOGY (3)
PR: Senior standing with major in anthropology, or equivalent. Through discussion of readings and student papers, students rethink and reevaluate anthropology as a discipline and the integration of its branches and specialty fields. Students develop and articulate their current images of anthropology.

ANT 4970 HONORS THESIS (3)
PR: Admission to the honors program, completion of the honors seminar and Cl. The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology. (SU only.)

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

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

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

MULI 4521 FOLK MUSIC (3)
PR: ANT 3410 or Cl. Examines ethnic musics in America, emphasizing the functions of folk music in rural and urban settings. Materials drawn crossculturally are studied in both religious and secular forms. When feasible, classwork is supplemented by live performances. Technical knowledge of music is not required. (May not be counted for credit toward an Anthropology major.)

COMMUNICOLGY
<table>
<thead>
<tr>
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<tr>
<td>SPA 3002</td>
<td>INTRODUCTION TO COMMUNICATION DISORDERS</td>
<td>(4)</td>
</tr>
<tr>
<td>SPA 3801</td>
<td>INTRODUCTION TO RESEARCH PROCEDURES IN COMMUNICATION COLOGY</td>
<td>(4)</td>
</tr>
<tr>
<td>SPA 3030</td>
<td>INTRODUCTION TO HEARING SCIENCE</td>
<td>(4)</td>
</tr>
<tr>
<td>SPA 4322</td>
<td>STRUCTURE OF SIGN LANGUAGE</td>
<td>(3)</td>
</tr>
<tr>
<td>SPA 4050</td>
<td>INTRODUCTION TO PRACTICUM</td>
<td>(1-12)</td>
</tr>
<tr>
<td>SPA 4255</td>
<td>COMMUNICATION DISORDERS I: VOICE/ARTICULATION/STUTTERING</td>
<td>(3)</td>
</tr>
<tr>
<td>SPA 4255</td>
<td>COMMUNICATION DISORDERS II: CEREBRAL PALSY/CLEFT PALATE/APHASIA</td>
<td>(3)</td>
</tr>
<tr>
<td>SPA 4330</td>
<td>INTRODUCTION TO AMERICAN SIGN LANGUAGE</td>
<td>(1)</td>
</tr>
<tr>
<td>SPA 4331</td>
<td>FUNDAMENTALS OF FINGERSPELLING</td>
<td>(2)</td>
</tr>
<tr>
<td>PR</td>
<td>CI A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.</td>
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<tr>
<td>SPA 4380</td>
<td>BASIC AMERICAN SIGN LANGUAGE</td>
<td>(2)</td>
</tr>
<tr>
<td>SPA 4930</td>
<td>SELECTED TOPICS</td>
<td>(3)</td>
</tr>
<tr>
<td>SPA 5120</td>
<td>COMMUNICATION DISORDERS: VOICE</td>
<td>(3)</td>
</tr>
<tr>
<td>SPA 5225</td>
<td>COMMUNICATION DISORDERS: STUTTERING</td>
<td>(3)</td>
</tr>
<tr>
<td>SPA 5321</td>
<td>AUDIOLOGY: HEARING SCIENCE</td>
<td>(4)</td>
</tr>
<tr>
<td>SPA 5312</td>
<td>PERIPHERAL AND CENTRAL AUDITORY TESTS</td>
<td>(4)</td>
</tr>
<tr>
<td>SPA 5385</td>
<td>AMERICAN SIGN LANGUAGE LABORATORY</td>
<td>(1)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>SPA 5387</td>
<td>INTERMEDIATE AMERICAN SIGN LANGUAGE</td>
<td>4</td>
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<tr>
<td>SPA 5389</td>
<td>ADVANCED AMERICAN SIGN LANGUAGE</td>
<td>4</td>
</tr>
<tr>
<td>SPA 5402</td>
<td>COMMUNICATION DISORDERS: LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>SPA 5550</td>
<td>METHODS FOR ORAL COMMUNICATION DISORDERS</td>
<td>4</td>
</tr>
<tr>
<td>SPA 5552</td>
<td>EVALUATION OF ORAL COMMUNICATION DISORDERS</td>
<td>4</td>
</tr>
<tr>
<td>SPA 5557</td>
<td>SPEECH-LANGUAGE PATHOLOGY AND AUDIOLogy PRACTICUM</td>
<td>1-8</td>
</tr>
</tbody>
</table>

**CRIMINOLOGY**


<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 3003</td>
<td>CRIME AND JUSTICE IN AMERICA</td>
<td>4</td>
<td>A non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with criminal offenders and victims of crime. May be taken by both majors and non-majors for credit, subject to departmental approval for declared majors.</td>
</tr>
<tr>
<td>CCJ 3020</td>
<td>SURVEY OF THE CRIMINAL JUSTICE SYSTEM</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 3280</td>
<td>CRIMINAL LAW I</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 3620</td>
<td>THEORIES OF CRIMINAL BEHAVIOR</td>
<td>3</td>
<td>PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.</td>
</tr>
<tr>
<td>CCJ 3621</td>
<td>PATTERNS OF CRIMINAL BEHAVIOR</td>
<td>3</td>
<td>Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offense, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.</td>
</tr>
<tr>
<td>CCJ 4283</td>
<td>CRIMINAL LAW II</td>
<td>3</td>
<td>PR: CCJ 3280. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.</td>
</tr>
<tr>
<td>CCJ 4330</td>
<td>ALTERNATIVES TO INCARCERATION</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 4450</td>
<td>CRIMINAL JUSTICE ADMINISTRATION</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 4501</td>
<td>JUVENILE JUSTICE SYSTEM</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 4604</td>
<td>ABNORMAL BEHAVIOR AND CRIMINALITY</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 4700</td>
<td>RESEARCH METHODS IN CRIMINAL JUSTICE II</td>
<td>3</td>
<td>PR: Junior standing or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122, GEB 3121, or STA 3023.</td>
</tr>
<tr>
<td>CCJ 4822</td>
<td>PRIVATE SECURITY SYSTEMS</td>
<td>3</td>
<td>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.</td>
</tr>
</tbody>
</table>

*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 4910, CCJ 4900 or any combination of the two will be accepted toward the minimum number of hours of the major.

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

CCJ 4934 SEMINAR IN CRIMINAL JUSTICE (3)

PR: Senior standing and CI. This variable topic seminar will consider the various changes occurring in the field of criminal justice with added emphasis on career responsibilities in the field.

CCJ 4940 INTERNSHIP FOR CRIMINAL JUSTICE MAJORS (3)

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

+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.

GEOGRAPHY

Chairperson: TBA; Professor: D. M. Stowers; Professor Emeritus: R. H. Fuson; Associate Professors: H. J. Schaleman, J. W. Stafford; Instructor: M. L. LeVasseur.

GEO 3000 WORLD REGIONAL GEOGRAPHY (4)

Comparative and analytical research of representative regions of the world with emphasis on cultural, political, economic, and physical diversity.

GEO 3009 GENERAL GEOGRAPHY (4)

Selected topics in regional and topical geography offered as survey courses. Open to all students.

GEO 3194 REGIONAL GEOGRAPHY (4)

Variable title course to systematically study and compare special regions identified by the instructor.

GEO 3202 GEOGRAPHY OF ANGLO-AMERICA (4)

GEO 3260 GEOGRAPHY OF THE SOUTHEAST UNITED STATES (4)

GEO 3300 GEOGRAPHY OF MIDDLE AMERICA (4)

GEO 3360 GEOGRAPHY OF THE GULF OF MEXICO (4)

GEO 3400 GEOGRAPHY OF LATIN AMERICA (4)

GEO 3500 GEOGRAPHY OF EUROPE (4)

GEO 3554 GEOGRAPHY OF THE USSR (4)

GEO 3600 GEOGRAPHY OF AFRICA (4)

GEO 3703 GEOGRAPHY OF ASIA (4)

GEO 4920 GEOGRAPHY OF CURRENT EVENTS (4)

Application of basic geographic principles of the analysis of contemporary events in various parts of the world.

GEO 3013 SYSTEMATIC GEOGRAPHY (4)

Principles and concepts of the discipline; maps, earth-sun relations, weather, and climate.

GEO 3014 SYSTEMATIC GEOGRAPHY (4)

PR: GEO 3013. Continuation of GEO 3013; soil, water, rocks, minerals, and landforms.

GEO 3402 HUMAN GEOGRAPHY (4)

Systematic treatment of man's activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.

GEO 3901 ELEMENTS OF GEOGRAPHY (1)

Independent study; various topics in physical and cultural geography. (S/U only.)

GEO 3931C WEATHER AND MAN (4)

The interrelationship between the atmospheric environment and man.

GEO 4040C MAP INTERPRETATION (4)

PR: GEO 3014. Analysis and synthesis of various types of maps and map projections.

GEO 4100C CARTOGRAPHY (4)

PR: GEO 3014. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)

PR: GEO 3014. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)

PR: GEO 3014. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photograhic are also considered.

GEO 4164C QUANTITATIVE METHODS (4)

PR: GEO 3014. Statistical analysis in geographic research.

GEO 4201C PHYSICAL GEOGRAPHY (4)

PR: GEO 3014 Intensive study of a topic selected from physical geography.

GEO 4210 PHYSIOGRAPHY (4)


GEO 4280C HYDROLOGY (4)

PR: GEO 3014. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 MAN AND NATURAL HAZARDS (4)

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

GEO 4372 CONSERVATION (4)

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

GEO 4390 WATER RESOURCES (4)

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

GEO 4421 CULTURAL GEOGRAPHY (4)

PR: GEO 3014. The interrelationships of culture and nature, from prehistoric 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 3014. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

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

**GEY 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.

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

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

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

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

**GEY 5058 GEOGRAPHIC ADMINISTRATION III** (3)
PR: CI. Examines within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social systems and its major institutionalized subsystems.

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

**GEY 5630 ECONOMICS AND AGING** (3)
PR: CI. 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.
HISTORY


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

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

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

AMH 3110 AMERICAN COLONIAL HISTORY TO 1750
A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.

AMH 3130 THE AMERICAN REVOLUTIONARY ERA
Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalty, violence, and slavery in American society from 1750-1789.

AMH 3140 THE AGE OF JEFFERSON
A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.

AMH 3160 THE AGE OF JACKSON
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

AMH 3170 THE CIVIL WAR AND RECONSTRUCTION
An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).

AMH 3201 THE UNITED STATES, 1877-1929
A study of America from the end of Reconstruction to the stock market crash. Ranging over political, social, and diplomatic developments, the course covers industrialization, reform, imperialism, feminism, race relations and World War I.

AMH 3252 THE UNITED STATES SINCE 1929
The United States from the Great Depression to the present. Covering political, social and diplomatic developments, examines the New Deal, World War II, the Cold War, Viet Nam, civil rights, feminism and Watergate.

AMH 3402 THE OLD SOUTH
A study of the American South from its colonial origins to the fall of the Confederacy in 1865. Emphasis on slavery and race, the Southern frontier, the development of sectional consciousness, and the coming of the Civil War.

AMH 3403 THE SOUTH SINCE 1865
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demogoguery and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3421 EARLY FLORIDA
A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

AMH 3423 MODERN FLORIDA
An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

AMH 3428 TAMPA HISTORY
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
Through an examination of economic, political, social and physical developments, the course traces both the opportunities and problems presented by urban life.

AMH 3500 AMERICAN LABOR HISTORY
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects of workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

AMH 3510 U.S. DIPLOMATIC HISTORY TO 1898 -6A
The development of American Foreign Relations in the Agricultural era.

AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY -6A
A history of American Foreign Relations in the Industrial era.

AMH 3530 IMMIGRATION HISTORY
A study of the composition and character of the “American” people with emphasis on the period from 1840s to the 1920s. Examines world background of immigrants and their responses to the new world’s social, economic and political conditions.

AMH 3540 UNITED STATES MILITARY HISTORY
A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

AMH 3545 WAR AND AMERICAN EMPIRE
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.
AMH 3562 AMERICAN WOMEN I (4)
A study of women in the evolution of American society from European origins to 1877. Women’s roles in the family, economy, politics, wars, and reform movements will be examined. (May also be taken for credit in Women’s Studies.)

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

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 2011, 2012 (formerly 2101, 2102)
ANCIENT HISTORY I, II (3,3)
An introductory survey of ancient history. EUH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 395.

EUH 2021, 2022 (formerly 2121, 2122)
MEDIEVAL HISTORY I, II (3,3)
A thematic survey of the Middle Ages. EUH 2021 deals with the nascent, Christian civilization of Europe, circa 300-1050 A.D.; EUH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.

EUH 2030, 2031 (formerly 2200, 2201)
MODERN EUROPE HISTORY I, II (3,3)
A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution; EUH 2031, from the French Revolution to the present.

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

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

EUH 3185 VIKING HISTORY (4)
The role of the Vikings in the shaping of Western history. A 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 HISTORY OF 17TH AND 18TH EUROPE (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 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 Macedon in 338 B.C.

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

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

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

EUH 3461 GERMAN HISTORY TO 1870 (4)
A political, social, and cultural approach to the history of the 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 1668 (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 demographic welfare state.
EUH 3530 BRITISH EMPIRE AND COMMONWEALTH (4)
A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.

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 3474 SCIENCE AND CIVILIZATION -6A (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 4104 (formerly 4152) THEORY OF HISTORY (4)
Recommended to be taken during the senior year. Required of all history majors. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.

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

HIS 4900 DIRECTED READING (1-4)
PR: Cl. Agreement 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: Cl. Advanced topics in the various fields of history. Emphasis on discussion of assigned readings and on research and writing of a major paper. Required of all history majors. May be repeated up to 12 credit hours.

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

LAH 3130 (formerly 3021) COLONIAL LATIN AMERICA (4)
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 (formerly 3022) MODERN LATIN AMERICA (4)
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 HISTORY OF MEXICO (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/neo-colonial 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.

WOH 3270 REVOLUTIONS IN THE MODERN WORLD -6A (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 in the context of concrete historical examples.

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

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

WST 4309 THE FEMALE EXPERIENCE IN AMERICA (4)
PR: WST 2010, or WST 3011, or Cl. The female experience in America, in historical context, viewed through the writings of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in Women's Studies.)

WST 4310 FEMINISM IN AMERICA (4)
PR: WST 2010, or WST 3011, or Cl. Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in Women's Studies.)

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

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 Cl. Historical development of social policy in the United States. The impact of industrialization and urbanization on the individual and family. The changing roles of family, community, state, nation and current issues.

HUS 4020 THE LIFE CYCLE (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 MHT 4302) INTERVIEWING** (3)

*PR: HUS 3001 or CI. The principles and techniques of interviewing. Use of interviewing in information gathering, research and helping relationships and developing skills in communication across cultural, social and age barriers.*

**HUS 4700 PLANNING AND EVALUATION OF HUMAN SERVICES PROGRAMS** (3)

*PR: HUS 3001 or CI. Review of approaches to planning, coordination, and evaluation of human services programs in health, rehabilitation, welfare and community action programs. Applications of planning and evaluation techniques.*

**HUS 5325 INTERVENTION TECHNIQUES**

(formerly HUS 5224) (3)

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

**SOW 4332 COMMUNITY ORGANIZATION AND DEVELOPMENT** (3)

*PR: HUS 3001 or CI. An interdisciplinary approach to community organization and development. A synthesis of social, cultural, psychological, economic, and political information concerning community structure and change.*

**INTERNATIONAL STUDIES**


**AREA STUDIES**

These multidisciplinary area study courses (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 courses of concentration vary.

**ASN 3030 THE MIDDLE EAST** (3)

**EUS 3000 EUROPE** (3)

**LAS 3001 LATIN AMERICA** (3)

**V 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 offered under African and Afro-American Studies.)*

**ASN 3012 JAPAN TODAY** (3)

*An introduction to modern Japan and its world role, drawing upon insights provided by the social and behavioral sciences. Emphasis is placed upon Japan’s foreign relations.*

**ASN 3014 CHINA TODAY** (3)

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

**EUS 3022 SOVIET UNION TODAY** (3)

*A multidisciplinary study of Soviet life and Soviet citizen today and their impact on the role of the Soviet Union in the world.*

**INR 2085 WORLD TENSIONS** (2)

*A study of the major causes and consequences of critical tensions which lead to serious social disturbances among and within the independent states of the world.*

**INR 3038 INTERNATIONAL WEALTH AND POWER** (3)

Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

**INR 3141 INTERNATIONAL NUCLEAR POLICY** (3)

*A study of nuclear issues (such as system development, proliferation, control, strategic policy and war) as they relate to contemporary international politics.*

**INR 3336 INTELLIGENCE AND U.S. FOREIGN POLICY** (3)

*An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.*

**INR 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.*

**ISS 1211 WORLD PERSPECTIVE** (3)

*An interdisciplinary study of the international system, major world regions and problems.*

**ISS 2221 AMERICA’S ROLE IN THE WORLD** (3)

*A multidisciplinary study of America’s role in world affairs, emphasizing current problems and issues in the formulation and implementation of foreign policy.*

**ISS 2261 WORLD IDEOLOGIES** (3)

*A course which details and examines the ideologies of today’s independent countries; analyzing them in their political, social, cultural and historical context.*

**ISS 3242 INTERNATIONAL TERRORISM** (3)

*A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.*

**ISS 3260 COMMUNISM IN THE MODERN WORLD** (3)

*An interdisciplinary study of the theory and practice of Communism in the world today.*

**ISS 3770 COMPARATIVE MILITARY SYSTEMS** (3)

*A comparative study of ways in which the military institutions of various nations are organized and interact with politics, societies and economies.*

**ISS 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES** (1-4)

*Interdisciplinary studies with course content dependent on student demand and instructor’s interest. May be repeated as topics vary.*

**ISS 3955 OVERSEAS STUDY** (1-6)

*A program of individual or group research in a foreign country.*

**ISS 4250 THE EMERGING NATIONS** (3)

*A multidisciplinary study of the efforts of third world nations to improve their status through economic development.*

**ISS 4900 DIRECTED READINGS** (1-3)

*PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.*

**ISS 4910 DIRECTED RESEARCH** (1-3)

*PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.*

**ISS 4931 SELECTED TOPICS** (1-4)

*Interdisciplinary studies with course content dependent on student demand and instructor’s interest. May be repeated as topics vary.*

**ISS 4936 SENIOR SEMINAR** (3)

*PR: Senior standing and CI. To provide an integrating seminar experience for majors in International Studies.*

**WST 3275 WOMEN IN THE DEVELOPING WORLD** (3)

*A comparative study of woman’s status in various developing nations with that in various industrialized states. (Also offered under Women’s Studies Program.)*
POLITICAL SCIENCE

OFF-CAMPUS TERM

Director: D. K. Lupton

IDS 4900 DIRECTED READINGS

PR: OCT Program approval. Open to all students approved for OCT Program. Provides students with community related readings. May be repeated up to 8 credit hours.

IDS 4910 DIRECTED RESEARCH

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

PR: OCT Program approval. (S/U only.)

IDS 4943 OFF-CAMPUS TERM SPECIAL PROJECT

PR: OCT Program approval. (S/U only.)

IDS 4955 OFF-CAMPUS TERM INTERNATIONAL PROGRAM

PR: OCT Program approval. (S/U only.)

POLITICAL SCIENCE


CPO 3002 INTRODUCTION TO COMPARATIVE POLITICS

Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS

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

Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 12 credit hours as topics vary.

CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS

Studies specific substantive areas in comparative politics such as political economy or political systems and the causes and consequences of such policy on international relations.

INR 3902 INTRODUCTION TO INTERNATIONAL RELATIONS

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

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

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

Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW

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

Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.

INR 5086 ISSUES IN INTERNATIONAL RELATIONS

Explore specific topics and provides the student with an opportunity for indepth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.

POS 2041 AMERICAN NATIONAL GOVERNMENT

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

Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT

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

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 SOUTHERICAN POLICIES

Examines changes in electoral policies in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 FLORIDA POLITICS AND GOVERNMENT

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

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

POS 3283 JUDICIAL PROCESS AND POLITICS

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

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

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

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

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

**POS 4165 COMMUNITY LEADERS AND POLITICS**  
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**  
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-6A**  
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**  
Organization, procedures, committee system, party leadership, relations with governmental and nongovernmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

**POS 4614 CONSTITUTIONAL LAW I**  
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**  
PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

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

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

**POS 4910 INDEPENDENT RESEARCH**  
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**  
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

**POS 4941 FIELD WORK**  
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**  
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

**POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT**  
Selected topics of study in American government. May be repeated for credit as topics vary.

**POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS**  
Selected issues and topics in Urban Government and politics. May be repeated for credit as topics vary.

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

**POT 3003 INTRODUCTION TO POLITICAL THEORY**  
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**  
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

**POT 4054 MODERN POLITICAL THEORY**  
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

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

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

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

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

**URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT**  
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.

**PSYCHOLOGY**


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

**CLP 4143 ABNORMAL PSYCHOLOGY**  
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.
PSYCHOLOGY 235

CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)
PR: PSY 3213. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433, and EDF 4430.

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

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

DEP 4135 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)
PR: PSY 3213 or Cl. Available both to majors and non-majors. Surveys the course of and development. Presents data and theory on phonological, semantic, and perceptual phenomena, and the effects of individual and social factors on perception.

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

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

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

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

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

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

INP 4004 INDUSTRIAL PSYCHOLOGY (3)
PR: PSY 3213 or Cl. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

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

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

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

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

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

PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)
PR: PSY 3013 or Cl. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab.

PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS (3)
PR: PSY 3213. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 SYSTEMATIC PSYCHOLOGY (3)
PR: PSY 3213 or Cl. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 4913 DIRECTED STUDY (1-3)
PR: Upper level standing and Cl. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. May be repeated with a maximum of 3 semester hours.

PSY 4931 SELECTED TOPICS: SEMINAR (3)
PR: Upper level standing and Cl. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology. May be repeated with a maximum of six hours credit.

PSY 4932 HONORS SEMINAR (3)
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 (3)
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 (3)
An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle. (Also offered under Women's Studies.)

SOP 4004 SOCIAL PSYCHOLOGY (3)
PR: PSY 3213 or Cl. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

SOP 4714C ENVIRONMENTAL PSYCHOLOGY (3)
PR: PSY 2012 or PSY 3013 or Cl. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.
PUBLIC ADMINISTRATION

Director: D. C. Menzel; Professor: J. E. Freisat, S. A. MacManus, D. C. Menzel; Associate Professors: J. C. Renick, F. W. Swierczek; Assistant Professors: J. L. Daly, P. T. Paluch.

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION (3)
Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4202 PUBLIC FINANCIAL ADMINISTRATION (3)
Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY (3)
Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3)
PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision-making.

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

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

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

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

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

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

REHABILITATION COUNSELING

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

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

EGC 5065 REHABILITATION: CONCEPTS AND THEORETICAL ISSUES (4)
An introduction to the rehabilitation process in the public and private sectors. 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: Cl. Counseling and case management procedures appropriate to meeting the needs of handicapped individuals in the rehabilitation process. Must be taken concurrently with EGC 5850. (S/U only.)

EGC 5496 THEORETICAL ISSUES IN APPLIED ALCOHOL ABUSE (4)

EGC 5725 INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING I (4)
PR: Cl. Focuses on the utilization of one's self in the counseling relationship. Emphasis is on the experiential exploration and development of interpersonal skills.

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

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

SOCIAL SCIENCES

INTERDISCIPLINARY


ISS 3010 INTRODUCTION TO THE SOCIAL SCIENCES (3)
An introduction to the fields within the social sciences. Emphasis is placed on the concepts, theories and methodologies used in the social sciences. Course may be taken by non-majors.

ISS 4162 THE CITY AND URBANIZATION (3)
An interdisciplinary perspective will be used to analyze the emergence of the city and the urban revolution. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problem.

ISS 4164 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH (3)
This course is designed to examine current social issues from an interdisciplinary perspective. Topic selection will be within the broad framework of technological changes, economic conditions, political ideologies, and their impact on changing social patterns.
ISS 4935 SEMINAR IN THE SOCIAL SCIENCES (3)
PR: Senior standing and ISS 3310. A capstone course designed to provide an in-depth study of topical areas related to the social sciences. Course may be taken by non-majors.

ISS 5934 SELECTED TOPICS (1-3)
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor’s interest. May be repeated as topics vary.

STA 3122 SOCIAL SCIENCE STATISTICS-6A (3)
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.

SOCIAL WORK

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3)
PR: All pre-core courses. Restricted to Social Work majors, others by Department permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environment factors as they relate to social work practice with individuals, and families and groups.

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (3)
PR: SOW 3101. Restricted to Social Work majors; others by Department permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with organizations and communities.

SOW 3203 THE AMERICAN SOCIAL WELFARE SYSTEM (2)
An introductory course tracing the development of the American social welfare system.

SOW 3302 INTRODUCTION TO SOCIAL WORK (3)
An introductory course tracing the development of the social work profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

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

SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM (4)
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4242 CHILD WELFARE: PROGRAMS AND ISSUES (3)
Restricted to Social Work majors; others by Departmental permission. Presents organization, program, and current policy issues related to public child welfare service provision.

SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION (5)
PR or CR: SOW 3101; SOW 3403. Restricted to Social Work majors; others by Department permission. Practice course emphasizing development of skills from practicum knowledge. Inter­ventive methods with individuals, families and small groups.

SOW 4343 MULTI-METHODS OF SOCIAL WORK PRACTICE II: MACRO-SYSTEM INTERVENTION (5)
PR: All pre-core courses, SOW 4341, SOW 4223, and SOW 3102 may be taken as PR or CR. Restricted to Social Work majors, others by Department permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes a didactic and experimental learning component.

SOW 4355 INTERVENTIVE METHODS FOR CHILD WELFARE (3)
Restricted to Social Work majors, others by Departmental permission. This course provides knowledge for assessing and skill development for intervening in child welfare situations.

SOW 4361 SENIOR SEMINAR (2)
PR: All pre-core courses; all core Social Work courses, except that SOW 4510 may be taken as CR. This course is the final course taken in the BSW curriculum. It is restricted to Social Work majors in their final stages of the senior year. The course serves as a means for assisting the student in synthesizing and integrating his/her learning experiences in the BSW program.

SOW 4510 FIELD PLACEMENT (10)
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 30 hours per week in the field and 3 hours per week in an integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4900 DIRECTED READINGS (1-6)
PR: Completion of four social work courses including SOW 3403, upper level standing, and Department permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed and approved by Program Chairperson. May be repeated up to 6 credit hours.

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK (1-3)
Restricted to Social Work majors; others by Department permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student’s educational interest.

SOW 5930 SELECTED TOPICS IN SOCIAL WORK (1-4)
Restricted to Social Work majors, both graduate and undergraduate; others by Department permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.

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

SYA 3300 SOCIAL INVESTIGATION (3)

SYA 3503 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)
PR: Major in the College of Social and Behavioral Sciences and CR in an upper level course. For students majoring in some other college, approval by major professor and instructor of course are both required, but concurrent registration in one of the social and behavioral science courses is maintained. The consideration of the theoretical and technical requirements for expressing social science concepts and propositions on film. Film planning, camera techniques, editing silent film, and the utilization of the independent sound (and tape cassette) in the commentary film. Ethics of film making.

SYA 3504 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (1)
PR: SYA 3503, CR in a course in the social and behavioral sciences with instructor’s approval to enable student to make a film in lieu of some other course requirement. A continuation of lab and field work in the making of commentary films. Camera, editorial and problems of independent sound solved in the context of making a film in one of the social sciences. Does not count for sociology major credit. May be repeated for a maximum of three credits. (S/U only)

SYA 4415 SOCIOLoGY OF MORALS (3)
PR: SYG 2000 or CI. An examination of the place of morals in social life, with special attention to politics, work, social structure, and the problem of the reproduction of social relations.

SYA 4430 COMPUTERS IN SOCIOLOGICAL RESEARCH (3)
PR: COC 3300, STA 3122 or equivalent. Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis. (S/U credit only)

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

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

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

SYA 5949 SOCIOLOGICAL INTERNSHIP (1-6)
PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting. May be repeated up to 6 credit hours. (S/U only)

SYD 3700 RACIAL AND ETHNIC RELATIONS (3)
PR: SYG 2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

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

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

SYD 4441 COMPARATIVE RURAL SOCIOLOGY (3)
PR: SYG 2000 or CI. The study of rural life in the United States; compares the situation in the United States with that of other societies as well as other times in history; some aspects of rural peasant societies and experiments in rural community formation.

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

SYG 1010 CONTEMPORARY SOCIAL PROBLEMS (3)
Application of sociological concepts and principles to the description and analysis of major social problems of modern societies. Does not count for sociology major credit.

SYG 2000 INTRODUCTION TO SOCIOLOGY (3)
Nature and application of sociological concepts, theories, and methods; analysis of societies, associations and groups; social processes and social change.

SYG 2004 CAREERS IN SOCIOLOGY (1)
PR: One course in Sociology. An examination of sociology as a career base and basis for general education. Employment opportunities, occupational skills taught in the several courses, and other useful aspects of sociology will be discussed. Descriptions of the several subfields of specialization and a brief introduction to the courses taught in the department will lead to the student’s making a tentative program schedule for his major. The value of sociology to the individual as a self actualizing person of unique worth will be stressed. (S/U only)

SYG 2412 MARRIAGE (3)
Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

SYO 3120 THE FAMILY (3)
PR: SYG 2000 or CI. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

SYO 3200 SOCIOLOGY OF RELIGION (3)
PR: SYG 2000 or CI. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SYO 3500 SOCIAL ORGANIZATION (3)
PR: SYG 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SYO 3530 SOCIAL STRATIFICATION (3)
PR: SYG 2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.

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

SYO 4370 OCCUPATIONS AND PROFESSIONS (3)
PR: Upper level standing or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on process professionalizing service occupations like policework, business management, public administration and social work.
SYO 4400 SOCIOLOGY OF MEDICINE  
PR: SYG 2000 or CI. An examination of the major theoretical and methodological tools used by sociologists in studying medical care. A representative sampling of medical sociological studies will be reviewed and discussed.

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

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

SYP 4300 COLLECTIVE BEHAVIOR  
PR: SYG 2000 or CI; upper level standing. Study of the development of group and mass behavior crowds, social movements.

SYP 4400 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.

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

SYP 4510 SOCIOLOGICAL ASPECTS OF DEVIANCE  
PR: SYG 2000, or CI. Definition and theories of deviance applied to substantive areas such as drug use, sexual variety, and other stigmatized activities, mental illness, and white collar crimes.

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

SYP 4530 JUVENILE DELIQUENCY  
PR: SYG 2000 or CI; upper level standing. Theories of delinquency, patterns of delinquent behavior methods of control and treatment.

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

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

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

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

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

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

WOMEN'S STUDIES

Coordinator: J. Ochshorn; Professors: L. L. McAlister, J. Ochshorn; Professor Emeritus: J. H. Williams; Associate Professors: M. Myerson, J. B. Snook; Assistant Professor: E. B. Breit; Courtesy Faculty: Professor: L. S. Dietrich; Associate Professors: R. A. Banes, L. M. Whiteford.

AFA 4335 BLACK WOMEN IN AMERICA  
PR: WST 2010, 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.)

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

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

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A  
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)

ANT 4302 SEX ROLES IN CROSSCULTURAL PERSPECTIVE  
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  
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  
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and nonmajors. (May also be taken for credit in Political Science.)

REL 3145 WOMEN AND RELIGION -6A  
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  
Theories of female personality. Current research on socialization, sexuality, reproduction. Emerging lifestyles and developmental tasks of the life cycle. (May also be taken for credit in Psychology.)

SYD 4800 SOCIOLOGY OF SEX ROLES  
PR: SYG 2000, WST 2010 or 3011; or CI. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (Also offered under Sociology.)

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

WST 3011 ISSUES IN FEMINISM  
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

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

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

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

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

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

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

**WST 4309 THE FEMALE EXPERIENCE IN AMERICA**
PR: WST 2010, or WST 3011, or CI. The female experience in America, in historical context, viewed through the writings of women of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in History.)

**WST 4310 FEMINISM IN AMERICA**
PR: WST 2010, or WST 3011, or CI. Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in History.)

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

**WST 4380 HUMAN SEXUAL BEHAVIOR**
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**
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.

**WST 4910 DIRECTED RESEARCH**
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**
PR: WST 2010 or CI. Study in special areas such as Feminist Ethics, Women Artists, etc.

**WST 4935 SEMINAR IN WOMEN'S STUDIES**
PR: WST 2010 or CI. In-depth study of research in one or more areas of topical interest to students and staff. Research involvement by students required.
**Office of the President**

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**Faculty Assistant to the President**
DONNA PARINNO

**Executive Assistant to the President**
BARBARA COX

**Florida Mental Health Institute**

**Director**
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**Deputy Director, Administration**
FRANCIS M. PARIS

**Deputy Director, Programs**
MAX DERTKE

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- Department of Child & Family Studies: L. ADLAI BOYD
- Department of Community Mental Health: MICHAEL KNOX
- Department of Crime & Delinquency: RICHARD M. SWANSON
- Department of Epidemiology & Policy Analysis: ROBERT M. FRIEDMAN

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- Graduate Programs: A. EDWARD UPRICHARD
- Grants and Contracts: JUDY WILKERSON
- Institute for Instructional Research and Practice: CAROLYN LAVELY
- National Resource Center for Middle Grades Education: DICK PUGLISI
- School of Library and Information Science: ROBERT GROVER
- School Management Institute: KAROLYN SNYDER
- South Florida Educational Planning Council: MARCIA MANN
- Suncoast Area Teacher Training Program (SCATT): MARCIA MANN
- Teacher Education Center: PHILLIP PFOST
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ALAN EAKER

Dance

LAWRENCE BERGER

Music

JACK HELLER

Theatre (acting)

DAVID WILLIAMS

Directors:

SYCOM

BRADLEY ALBERS

University Gallery

MARGARET MILLER

Coordinator:

Fine Arts Events

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and Interim Dean

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Associate Dean for All Children's Hospital

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Associate Dean, Admissions

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Associate Dean, Institutional Development

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Associate Dean for Faculty Relations

TBA

Associate Dean for the Bay Pines VAH

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Associate Dean Student Affairs

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Medical Microbiology and Immunology

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ERIC PFEIFFER

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Associate Dean

EDWARD SILBERT

Coordinator of Undergraduate Student Affairs

CURTIS W. WIENKEN

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WILLIAM R. BLOUNT

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THOMAS RICH

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SWAMINATHA SUNDARM

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Botanical Gardens

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Herbarium

RICHARD P. WUNDERLIN

Medical Technology

EUGENE D. OLSEN

Planetary

JOE A. CARR

Pre-Medical Advising Committee

CAROLE F. HENDRY

ALBERT LATINA

JAMES D. RAY, JR.
### ORGANIZATION & PERSONNEL

<table>
<thead>
<tr>
<th>Department/Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Rehabilitation Counseling</td>
<td>CALVIN PINKARD</td>
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<td>Social Work</td>
<td>PHILIP SMITH</td>
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<td>Sociology</td>
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<td><strong>Division Director:</strong> Interdisciplinary Social Science</td>
<td>KOFI GLOVER</td>
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<td><strong>Program Directors:</strong></td>
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<tr>
<td>International Studies</td>
<td>DARRELL SLIDER</td>
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<td>Women's Studies</td>
<td>JUDITH OCHSHORN</td>
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<td><strong>Program Directors:</strong> Human Resources Institute</td>
<td>JULIA M. DAVIS</td>
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<td>Public Administration</td>
<td>DONALD MENZEL</td>
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<td><strong>School of Extended Studies and Learning Technologies</strong></td>
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<td>Dean</td>
<td>JAMES B. HECK</td>
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<tr>
<td>Assistant to the Dean</td>
<td>LARRY ROMIG</td>
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<tr>
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<td>KENNEDH D. STANTON</td>
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<td>Center for Association Management and Continuing Education</td>
<td>LARRY ROMIG</td>
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<td>Division of Conferences and Institutes</td>
<td>LEE LEAVENGOOD</td>
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<td>Division of Lifelong Learning</td>
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<tr>
<td>Bachelor of Independent Studies</td>
<td>KEVIN KEARNEY</td>
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<tr>
<td>School of Extended Studies and Learning Technologies</td>
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<tr>
<td><strong>Graduate School</strong></td>
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<tr>
<td>Dean of the Graduate School and</td>
<td>GEORGE R. NEWKOME</td>
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<tr>
<td>Vice President, Office of Research and</td>
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<tr>
<td><strong>Graduate Studies</strong></td>
<td>GREGOR H. SCHEUERLE</td>
</tr>
<tr>
<td>Associate Dean of the Graduate School</td>
<td>SARA M. DEATS</td>
</tr>
<tr>
<td>Assistant Dean of the Graduate School</td>
<td>JAMES C. RENICK</td>
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<tr>
<td>Academic Administrator</td>
<td>TBA</td>
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<tr>
<td>Director, Sponsored Research</td>
<td>FRANK LUCARELLI</td>
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<tr>
<td>Director, Graduate Scholarship/Fellowship Program</td>
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<td>Chair, USF Press Editorial Board</td>
<td>SILVIA RUFO-FIORE</td>
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<td>Manuscript Consultant</td>
<td>CHRISTINA WHIDDEN</td>
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<td><strong>Undergraduate Studies</strong></td>
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<tr>
<td>Dean</td>
<td>WILLIAM H. SCHEUERLE</td>
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<tr>
<td>Associate Dean</td>
<td>THERMA D. BENTON</td>
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<tr>
<td>Coordinator, Academic Advising</td>
<td>KENNYON TILLLOTSON</td>
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<td>Coordinator, Disabled Student</td>
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<tr>
<td>Academic Services</td>
<td>ROBERTA ARMSTRONG</td>
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<td>Coordinator, Project Trust</td>
<td>MACK DAVIS</td>
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<td>Coordinator, Special Services (acting)</td>
<td>JOAN HOLMES</td>
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<td>Director, Community College Relations</td>
<td>FRANK H. SPAIN</td>
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<td>Director, Career Resource Center</td>
<td>GLEена F. LENTZ</td>
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<td>Director, Evaluation and Testing</td>
<td>HARRIET SELIGSOHN</td>
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<td>STUART SILVERMAN</td>
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<td>LT. COL. JAMES BAUER</td>
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<td>Army ROTC</td>
<td>LT. COL. JOHN LAROCHE</td>
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<td>Coordinator, Athletics Advising</td>
<td>KEVIN MARONIC</td>
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<td><strong>USF at Fort Myers</strong></td>
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<td><strong>Campus Dean and Executive Officer</strong></td>
<td>BARBARA R. SHERMAN</td>
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<td>Assistant Dean for Academic Affairs</td>
<td>GILBERT R. HUTCHCRAFT</td>
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<tr>
<td>Director, Administration and Finance</td>
<td>GLENN E. NITSCHKE</td>
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<td>Director, Student Affairs</td>
<td>MADELYN L. ISAACS</td>
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<td>Director, ECC/USF Learning Resources</td>
<td>CHARLES RITCHIE</td>
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<tr>
<td>Director, University Relations and Development</td>
<td>JAMES E. HOF</td>
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<tr>
<td><strong>USF at Sarasota</strong></td>
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<td><strong>Campus Dean</strong></td>
<td>ROBERT V. BARYLSKI</td>
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<td>Associate Dean</td>
<td>PAUL E. MCCLENDOON</td>
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<tr>
<td>Business Manager</td>
<td>BERI E. LUNDSTROM</td>
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<td>Campus Librarian</td>
<td>ALTHEA H. JENKINS</td>
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<td>Director, Bi-County Center for Engineering</td>
<td>HORACE C. GORDON, JR.</td>
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<td>Director of Physical Plant</td>
<td>THOMAS J. PENN</td>
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<td>CHRIS EVERSOLE</td>
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<td>Director of Records and Registration</td>
<td>NANCY E. FERRARO</td>
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<td>Director, Student Affairs (acting)</td>
<td>PETER FAZIO</td>
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<td>Provost</td>
<td>ROBERT R. BENEDETTI</td>
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<td>Director, Special Project Development</td>
<td>JAMES W. FEENEY</td>
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<td>Director, New College Admissions</td>
<td>ROBERT H. THORNTON</td>
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<td><strong>Chairpersons:</strong></td>
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<tr>
<td>Humanities</td>
<td>DOUGLAS C. LANGSTON</td>
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<td>Natural Sciences</td>
<td>JANE STEPHENS</td>
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<td>Social Sciences</td>
<td>CHARLENE LEVY</td>
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<td><strong>USF at St. Petersburg</strong></td>
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<tr>
<td><strong>Campus Dean</strong></td>
<td>LOWELL E. DAVIS</td>
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<td>Associate Dean, Academic Affairs</td>
<td>WILLIAM GARRETT</td>
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<td>Director, Administration and Finance</td>
<td>HERMAN J. BRAMES</td>
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<td>Director, Student Affairs</td>
<td>STEPHEN RITCHET</td>
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<td>SAMUEL FUSTUKJIAN</td>
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<td><strong>USF at Lakeland</strong></td>
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<td><strong>Center Director and Executive Officer</strong></td>
<td>YVONNE L. RALSTON</td>
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<td>Associate Director for Student Services</td>
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<td><strong>OFFICE OF THE EXECUTIVE VICE PRESIDENT</strong></td>
<td>ALBERT C. HARTLEY</td>
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<td>Associate Vice President</td>
<td>CLAIRES S. ROBINSON</td>
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<td>SELDON L. CARSEY</td>
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<td>LORETTA B. CARSEY</td>
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<td>ROBERT F. RINGEL</td>
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<td>ERIC L. WALDEN</td>
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<td>Director, Human Resource Development</td>
<td>CYNTHIA A. MULLEN</td>
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<tr>
<td>Position</td>
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<tr>
<td>Director, Resource and Planning</td>
<td>SUSAN A. MITCHEL</td>
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<td>Director, Labor Management Relations</td>
<td>ROLAND E. CARRINGTON</td>
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<td>Director, Operations Analysis</td>
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<td>A. KEITH SIMMONS</td>
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<td>JAY KARP</td>
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<td>CHARLES E. FISHER</td>
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<td>Director, University Personnel Relations</td>
<td>TRUDIE E. FRECKER</td>
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<td>Coordinator, Office Automation</td>
<td>RICHARD S. KAYE</td>
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<td>CHARLES F. HEWITT</td>
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<td>Associate Vice President, Housing and Auxiliary Services</td>
<td>RAYMOND C. KING</td>
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<td>WANDA LEWIS-CAMPBELL</td>
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<td>PAUL GRIFFIN</td>
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<td>Director, Counseling Center for Human Development, Veterans Affairs</td>
<td>WILLIAM ANTON</td>
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<td>MARIA ANDERSON</td>
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<td>ANDREW HONKER</td>
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<td>WILLARD BOOKS</td>
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<td>ROBERT SHIVER</td>
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<td>MELONESE STRONG</td>
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<td>UNIVERSITY RELATIONS</td>
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<td>BARBARA ANN BLUE</td>
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<td>Director, Public Affairs</td>
<td>BOB ALLEN</td>
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<td>Director, Community Relations</td>
<td>ANN ROSS</td>
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<td>STEVEN J. ALEXANDER</td>
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<tr>
<td>Coordinator of Government Relations for Health Affairs</td>
<td>JEFFREY MUIR</td>
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</table>
All members of the University of South Florida faculty and administrative staff, including teaching, research, administrative and professional personnel, are listed below in alphabetical order. The listing includes name, current rank and field, first year of continuous appointment to any position in the institution, degrees, and institution and year of terminal degree, as of August 7, 1987. (A semicolon between degrees indicates different institutions.)

Achenbach, Karl E., Assistant Professor (Psychiatry), 1979  
B.A.: Ph.D., University of Florida, 1966

Ackerman, Doris J., University Librarian (University Libraries), 1969  
B.A.: M.L.S., Rutgers, 1969

Ackerman, John R., Professor (Surgery), 1983 (Part Time)  
M.B., C.H.B., M.D., University of Cape Town, South Africa, 1965

Acosta, David, Visiting Assistant Professor (Anesthesiology), 1986  
( Part Time)

B.S.: M.D., University of Miami School of Medicine, 1982

Adair, W. Lee, Jr., Associate Professor (Biochemistry), 1975  
Sc.B.: Ph.D., Georgetown University, 1972

Aertker, Jean R., Visiting Instructor (Public Sector Medicine-Nursing), 1985  
B.S.: M.S.M., University of South Florida, 1984

Ahrens, Vicki W., Director (Admissions, Student Affairs), 1974  
B.A., M.A., University of South Florida, 1975

Aks, David M., Assistant Professor (Music), 1986  
B.M., M.M., Oberlin College, 1972

Al-Arian, Sami A., Assistant Professor (Computer Science and Engineering), 1986  
B.S.: M.S., Ph.D., North Carolina State University, 1985

Albers, Bradley G., Associate Professor (Music-SYCOM), 1978  

Albers, Michele M., Assistant Professor (Nursing), 1987  
B.A., M.S., Ph.D., Ohio State University, 1987

Alberto, Louis M., Assistant Professor (Accounting), 1986  

Alberts, W. Michael, Assistant Professor (Internal Medicine), 1983  
B.A.: M.D., University of Illinois, 1977

Albertson, Helen D., Assistant University Librarian (University Libraries), 1982 St. Petersburg Campus  
B.A.: M.A., Ph.D., University of Miami, Florida, 1980

Alexandrino, Jo-An G., Academic Administrator (Natural Sciences), 1985  
B.A., Notre Dame College, 1981

Alexander, Michael D., Clinical Psychologist (Counseling), 1975  
Sarasota Campus  
B.S., M.A., Ph.D., Ohio State University, 1972

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

Alexiou, Nicholas G. Director (Comprehensive Medicine), 1979  
A.B.: M.F.H.: M.D., University of Vermont College of Medicine, 1955

Allen, Harold C., Associate Professor (Information Systems Decision Sciences), 1967  

Allen, Nola A., Associate Professor (Interdisciplinary Social Science), 1979  

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

Allyn, Janet F., Coordinator (College Administration, Education), 1977  
B.A.: M.A., University of South Florida, 1974

Altsch, Phillip, Professor (Internal Medicine), 1976  
A.B.: M.D., State Univ. of N.Y., Upstate Medical Center, 1971

Alvarez, Marvin R., Professor (Biology), 1966  
B.S., M.S., Ph.D., University of Florida, 1964

Amen, Michael J., Associate Professor (Interdisciplinary Social Sciences), 1982  
B.A.: M.A.: Ph.D., University of Geneve, 1976

Amico, Michael P. Visiting Assistant Professor (Theatre), 1987  

Ammons, J. Michael, Research Associate (Electrical Engineering), 1980  
B.A., M.S., Ph.D., University of South Florida, 1980

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

Anderson, Carmen S., Assistant In Research (Crime & Delinquency, FMH), 1986  
B.A.: M.A., Duquesne University, 1982

Anderson, Donna J., Assistant Professor (Counselor Education), 1987  

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

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

Anderson, Kenneth A., Visiting Instructor (Crime and Delinquency, FMH), 1985  

B.S.: J.D., Howard University School of Law, 1975

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

Anderson, Melvin W., Professor-Chairperson (Civil Engineering and Mechanics), 1966  
B.S., M.S., Ph.D., Carnegie Mellon University, 1967, P.E.

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

Anderson, Robert L., Professor (Marketing), 1971  
B.S., M.S.: Ph.D., North Texas State University, 1971

Andrews, Anthony P., Associate Professor (Anthropology), New College of USF, 1981 Sarasota Campus  
B.A.: M.A., Ph.D., University of Arizona, 1980

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

Angrosino, Michael V., Professor-Chairperson (Anthropology), 1972  
B.A.: Ph.D., University of North Carolina, 1972

Anker, James M., Acting Provost (Provost's Office), Professor (Psychology), 1974  
B.A., M.A., Ph.D., Catholic University of America, 1957

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

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

Applegate, Minerva L., Professor (Nursing), 1976  

Arendash, Gary W., Associate Professor (Biology), 1981  
B.S.: Ph.D., University of California, San Francisco, 1978

Armstrong, Roberta M., Coordinator (Academic Services), 1987  
B.A.: M.A., University of South Florida, 1987

Armade, Charles W., Professor (Interdisciplinary Social Science), 1961  

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

Arsenault, Raymond O., Associate Professor (History), 1980 St. Petersburg Campus  
B.A.: M.A., Ph.D., Brandeis University, 1980
Aubel, Joseph L., Associate Professor (Physics), 1964
B.S., Ph.D., Michigan State University, 1964

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

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

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

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

Ausbon, William W., Professor-Director (Pediatrics), 1982
B.A.; M.D., Medical College of Alabama, 1956

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

Babione, Lois, Assistant in (Pediatrics), 1980
B.S., M.S., Florida State University, 1975

Babu, Addagatla J. G., Assistant Professor (Industrial & Management Systems Engineering), 1985
B.S.; M.S., M.A.; M.S.O.R.; Ph.D., Southern Methodist University, 1979 P.E.

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

Bagley, Ann H., Assistant Professor (Contents Specialization, Education), 1983
B.A., M.A.; Ed.D., University of Tennessee, 1978

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

Bailey, Walter F., Associate Professor (Cancer Education), 1986
B.A.; M.D., University of Pavia, Italy, 1972

Baker, Carleton H., Professor-Chairperson (Physiology), 1971
B.A.; M.A., Ph.D., Princeton University, 1955

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

Balfour, Alan, Associate Professor (Management), 1980 St. Petersburg Campus
B.A.; M.L.R.; J.D.; Ph.D., Michigan State University, 1975

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

Balsera, Alicia F., Associate in (Engineering), 1986
B.S. CHE.; M.S. CHE., University of South Florida, 1986

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

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

Barber, Michael J., Associate Professor (Biochemistry), 1983
B.Sc.; M.Sc.; Ph.D., University of Sussex, 1975

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

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

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

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

Barrels, Loren J., Associate Professor (Surgery), 1980
B.A., M.D., University of South Florida, 1974

Bartlett, Alton C., Professor (Management), 1967
B.S.; Ph.D., University of Wisconsin, 1964

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

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

Becker, Judith A., Associate Professor (Psychology), 1981
B.A.; Ph.D., University of Minnesota, 1981

Bedingfield, Sherry A., Head Athletic Coach (Women’s Athletics, Student Affairs), 1983
B.S., North Carolina State University, 1981

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

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

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

Beecher, Herbert K., Associate Professor (Surgery), 1981
B.A.; Ph.D., University of Minnesota, 1981

Bedington, Martha M., Assistant Professor (Child and Family Studies, FMHH), 1983
B.A.; M.A., Ph.D., University of Kansas, 1982

Beenhakker, Arie, Professor (Finance), 1973
Ph.D.; Ph.D., Purdue University, 1964

Behne, Roy H., Professor-Chairperson (Internal Medicine), 1972
A.B.; M.D., Indiana University School of Medicine, 1946

Beil-Waugh, Joanne M., Associate Professor (Philosophy), 1980
B.A.; M.A., Ph.D., University of Southern California, 1980

Bell, James A., Associate Professor (Philosophy), 1974
B.A.; M.A., Ph.D., Boston University, 1969

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

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

Belohlawek, John M., Professor (History), 1970
B.A., M.A., Ph.D., University of Nebraska, 1970

Belsole, Robert J., Professor (Surgery), 1977
B.S.; M.D., New York Medical College, 1969

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

Bencze, Katherine S., Instructor (Neurology), 1986
M.D., University of Szeged, Hungary, 1980

Benfod, Stephen A., Assistant In (Pediatrics), 1981
B.S.; Purdue University, 1972

Bennett, William F., Professor (Educational Leadership Education), 1968

Benjamin, William F., Professor (Educational Leadership Education), 1968

Bates, Margaret L., Professor (Social Sciences), New College of USF, 1975 Sarasota Campus

Batman, Gary R., Visiting Instructor (Crime & Delinquency, FMHI), 1986
B.A.; M.A.; University of Detroit, 1977

Baudoing, Larry A., Assistant Vice President (Medical Center), 1972
Ph.D.; M.B.A., Nova University, 1987

Baum, Rosalie M., Assistant Professor (English), 1987
A.B.; M.A.; Ph.D., University of Detroit, 1976

Baumgarten, Steven A., Associate Professor (Marketing), 1976
B.I.E.; M.S., Ph.D., Purdue University, 1971

Beach, Dorothy R., Counselor/Advisor (Counseling Center for Human Development, Student Affairs), 1972
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Beall, Kathleen, Student Affairs Coordinator (University Housing, Student Affairs), 1973
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Beasley, Bob L., Associate Professor (Physical Education, Education), 1980
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Beasley, Genia G., Assistant Athletic Coach (Women’s Athletics, Student Affairs), 1983
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Beavers, Terry L., Associate Director (University Computer Services), 1987
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Beck, Roy W., Associate Professor (Ophthalmology), 1986
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Becker, Judith A., Associate Professor (Psychology), 1981
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Bedingfield, Sherry A., Head Athletic Coach (Women's Athletics), 1979
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Bedington, Martha M., Assistant Professor (Child and Family Studies, FMHH), 1983
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Beenhakker, Arie, Professor (Finance), 1973
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Behne, Roy H., Professor-Chairperson (Internal Medicine), 1972
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Beil-Waugh, Joanne M., Associate Professor (Philosophy), 1980
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Bell, James A., Associate Professor (Philosophy), 1974
B.A.; M.A., Ph.D., Boston University, 1969

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

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Benjamin, William F., Professor (Educational Leadership Education), 1968
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Bennett, Daniel D., Professor-Associate Director (Graduate Architecture Program), 1987
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Bentley, Joseph G., Professor-Program Director (English), 1961
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Betzer, Peter, Professor-Chairperson (Marine Science), 1971
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Biersdorf, William R., Professor (Ophthalmology), 1978
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Binford, Jesse S., Jr., Professor (Chemistry), 1961
B.A.; M.A.; Ph.D., University of Utah, 1955
Birkin, Stanley J., Professor (Information Systems Decision Sciences), 1969
B.S.C.; M.S.C.; Ph.D., University of Alabama, 1969
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Blair, R. Clifford, Professor (Measurement and Research Education), 1975
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Blake, Norman J., Professor (Marine Science), 1972 St. Petersburg Campus
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Blanchard, Darlene K., Visiting Assistant Professor (Medical Microbiology), 1987
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Books, William G., Director (Student Publications, Student Affairs), 1986
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Bosek, Vojtech, Assistant Professor (Anesthesiology), 1987 (Part Time)
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Bowers, James C., Professor (Electrical Engineering), 1965
B.E.; M.S.; Ph.D., Washington University, 1964
Bowers, Louis E., Professor (Physical Education, Education), 1967
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Bowers, Richard T., Director (Business Administration), 1963
B.S.; M.S.; Ed.D., George Peabody College, 1961
Bowman, R. Lewis, Professor (Political Science), 1973
B.A.; Ph.D., University of North Carolina, 1964
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<tr>
<th>Name</th>
<th>Title, Position, and Place of Employment or Affiliation</th>
<th>Degree(s) and Institutions</th>
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<td>Briscoe, Diane B.</td>
<td>Assistant Professor (Adult Vocational Education)</td>
<td>B.S.; M.A., University of West Florida, 1980</td>
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<tr>
<td>Booy, Richard V.</td>
<td>Assistant Professor (Administration, FMHI)</td>
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<tr>
<td>Brown, John Lott</td>
<td>Regents Professor (Engineering/Medicine)</td>
<td>B.A.; M.S.ED.; M.D., SUNY Upstate Medical Center, 1977</td>
<td></td>
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<tr>
<td>Brown, Karen F.</td>
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<td>B.A.; M.S., University of Tennessee, 1982</td>
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<tr>
<td>Brownlee, Harrison J.</td>
<td>Assistant Professor-Program Director (Family Medicine)</td>
<td>B.A.; M.D., University of Southern California, 1957</td>
<td></td>
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<tr>
<td>Brownmee, Eden C.</td>
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<td>B.A.; M.S., University of Georgia, 1973</td>
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<tr>
<td>Buchanan, Janice C.</td>
<td>Associate Professor (Music)</td>
<td>B.A.; M.A., University of Florida, 1976</td>
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<tr>
<td>Buckner, Kenneth A.</td>
<td>Assistant Professor (Electrical Engineering)</td>
<td>B.S.; M.S., University of Illinois, 1978</td>
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<td>Buckner, Angela C.</td>
<td>Resident Advisor To Students (University Housing, Student Affairs)</td>
<td>B.S.; M.A., Ohio State University, 1986</td>
<td></td>
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<tr>
<td>Bueno, Edgar M.</td>
<td>Assistant Professor (Psychiatry)</td>
<td>M.D., University of San Marcos, Lima, Peru, 1965</td>
<td></td>
</tr>
<tr>
<td>Buffington, Richard G.</td>
<td>Academic Administrator (Engineering)</td>
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<td></td>
</tr>
<tr>
<td>Bukantz, Samuel C.</td>
<td>Professor (Internal Medicine)</td>
<td>B.S.; M.D., New York University College of Medicine, 1934</td>
<td></td>
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<tr>
<td>Bullock, John T.</td>
<td>Professor-Chairperson (Contents Specialization Education)</td>
<td>A.B.; M.Ed., Ed.D., University of Florida, 1972</td>
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<tr>
<td>Bulmash, Samuel B.</td>
<td>Associate Professor (Finance)</td>
<td>B.A.; M.B.A., University of Southern California, 1966</td>
<td></td>
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<tr>
<td>Bulnes, Reinaldo F.</td>
<td>University Physical Planner Consultant (Facilities Planning)</td>
<td>B.S.; M.A., University of Florida, 1982</td>
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<tr>
<td>Burbano, Cheryl M.</td>
<td>Continual Education Coordinator (Life Long Learning)</td>
<td>B.A.; M.A., Florida State University, 1987</td>
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<tr>
<td>Burdick, Glenn A.</td>
<td>Professor-Director (Engineering)</td>
<td>B.A.; M.A., University of West Florida, 1980</td>
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<tr>
<td>Burdick, Glenn A.</td>
<td>Assistant Professor (Computer Science Engineering)</td>
<td>B.S.; Ph.D., Duke University, 1980</td>
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<tr>
<td>Boyce, Henry W., Jr.</td>
<td>Professor (Internal Medicine)</td>
<td>B.S.; M.S.; Ph.D., Bowing Green State University, 1968</td>
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<tr>
<td>Boyer, J.</td>
<td>Head of Computer Science (Engineering)</td>
<td>B.S.; M.S., University of Florida, 1985</td>
<td></td>
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<tr>
<td>Boyer, J.</td>
<td>Assistant Professor (American Studies)</td>
<td>B.S.; M.S., Tulane University, 1974</td>
<td></td>
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<tr>
<td>Boyer, J.</td>
<td>Associate Dean (Research, Pediatrics)</td>
<td>B.B.A.; M.A., Department of Pediatrics, 1960</td>
<td></td>
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<tr>
<td>Boyer, J.</td>
<td>Professor (Anatomy)</td>
<td>B.S.; M.S., University of Southern California, 1990</td>
<td></td>
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<tr>
<td>Brandmeyer, Gordon</td>
<td>Professor (Economics)</td>
<td>B.A.; M.A., University of Pennsylvania, 1960</td>
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<td>Brandmeyer, Gordon</td>
<td>Professor (Economics)</td>
<td>B.A.; M.A., University of California, Los Angeles, 1962</td>
<td></td>
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<tr>
<td>Brandmeyer, Gordon</td>
<td>Associate Professor (Sociology)</td>
<td>B.A.; M.A., University of Southern California, 1978</td>
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<tr>
<td>Brandmeyer, Gordon</td>
<td>Associate Professor (Psychology)</td>
<td>B.A.; M.A., Bowling Green State University, 1986</td>
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<td>Regents Professor (Engineering/Medicine)</td>
<td>B.A.; M.S., SUNY Upstate Medical Center, 1976</td>
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<tr>
<td>Bruce, Rita G.</td>
<td>Assistant Dean-Associate Professor (Public Health)</td>
<td>B.A.; M.A., University of Southern California, 1957</td>
<td></td>
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<tr>
<td>Bryant, Alma G.</td>
<td>Assistant Professor-Associate Chairperson (English)</td>
<td>B.A.; M.A., University of Southern California, 1966</td>
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<tr>
<td>Bryant, Margaret W.</td>
<td>Assistant In (Anatomy)</td>
<td>B.A.; M.A., University of Southern California, 1966</td>
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<td>Burkhalter, S.</td>
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<td>1978</td>
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<td>Burley, W.</td>
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<td>Burns, Candace</td>
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<td>Burton, Carmen</td>
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<td>1986</td>
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<tr>
<td>Cadby, J.</td>
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<td>1970</td>
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<td>Byers, Robert H. Jr.</td>
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<td>1985</td>
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<td>Byrne, Robert H. Jr.</td>
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<td>1974</td>
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<td>Bussman, John F.</td>
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<td>B. S., M.A.</td>
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<td>University of South Florida</td>
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<td>B. S., M.S.</td>
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<td>1985</td>
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<td>B. S., M.S.; M.A.</td>
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<td>University of Virginia</td>
<td>1976</td>
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<td>B. S., M.S.; M.A.</td>
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<td>University of Florida</td>
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<td>B. A.; M. Phil.</td>
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<td>1974</td>
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<td>Cahill, David W.</td>
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<td>Caligiuri, Laura A.</td>
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<td>Caliguri, Laura A.</td>
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<td>Callahan, Kathy J.</td>
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<td>Callan, Sabra M.</td>
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<td>Cameron, Don F.</td>
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<td>Cameron, Wm. Bruce</td>
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<td>University of Wisconsin</td>
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<td>J. E.</td>
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<td>University of Florida</td>
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<tr>
<td>J. M.</td>
<td>Greater National University of San Marcos</td>
<td>University of San Francisco</td>
<td>1974</td>
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</table>

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B.S., M.S., Ph.D., Massachusetts Institute of Technology, 1961

B.S., M.S., Ph.D., University of Michigan, 1982

B.A., M.A., Ph.D., Columbia University, 1982

B.A., M.A., Ph.D., Indiana University, 1973

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B.S., M.S.; Ed.D., University of New Mexico, 1964

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Card, George R., Academic Administrator (Engineering), 1970

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Cargill, Carol C., Professor (Languages), 1977

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B.S.; B.C.E.; M.S.E.E.; Ph.D., Clemson University, 1973, P.E.

Carnes, John W., Visiting Assistant Professor (Family Medicine), 1985 (Part Time)

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

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B.S.C.E., Ph.D., North Carolina State University, 1966, P.E.

Carr, David R., Assistant Professor (History), 1971 St. Petersburg Campus

B.A.; M.A., Ph.D., University of Nebraska, 1971

Carr, John W.; III, Professor-Acting Chairperson (Computer Science & Engineering), 1986

B.S.; M.S., Ph.D., Massachusetts Institute of Technology, 1952

*Carr, Joseph A., Director, Research Programs/Services (Planetary), 1960*

Carrasco, Magdalena E., Associate Professor (Humanities), New College of Arts & Sciences

B.S., M.A., Ohio State University, 1976

Carr, John W., III, Professor-Acting Chairperson (Computer Science & Engineering), 1986

B.S.; M.S., Ph.D., Massachusetts Institute of Technology, 1952

*Carroll, Delos E., Professor (Liberal Arts), 1987*

Casseday, Daniel R., Associate Director of Information & Publications Services (University Relations), 1984

B.S., Bowling Green University, 1974

Carr, David R., Assistant Professor (History), 1971 St. Petersburg Campus

B.A.; M.A., Ph.D., University of Nebraska, 1971

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B.S.; M.S., Ph.D., Massachusetts Institute of Technology, 1952

*Carroll, Joseph A., Director, Research Programs/Services (Planetary), 1960*

Carrasco, Magdalena E., Associate Professor (Humanities), New College of Arts & Sciences

B.S., M.A., Ohio State University, 1976

Carr, John W., III, Professor-Acting Chairperson (Computer Science & Engineering), 1986

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*Carroll, Joseph A., Director, Research Programs/Services (Planetary), 1960*

Carrasco, Magdalena E., Associate Professor (Humanities), New College of Arts & Sciences

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Carr, John W., III, Professor-Acting Chairperson (Computer Science & Engineering), 1986

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*Carroll, Joseph A., Director, Research Programs/Services (Planetary), 1960*

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Carr, John W., III, Professor-Acting Chairperson (Computer Science & Engineering), 1986

B.S.; M.S., Ph.D., Massachusetts Institute of Technology, 1952

*Carroll, Joseph A., Director, Research Programs/Services (Planetary), 1960*
252 FACULTY & ADMINISTRATIVE STAFF

Cavanagh, Denis, Professor-Acting Chairperson (Obstetrics and Gynecology), 1977
M.B., Ch.B., University of Glasgow, 1952

Cebulski, James C., Counselor/Advisor (Academic Services, Undergraduate Studies), 1982
B.S.Ed., M.A., Kent State University, 1967

Cerrito, Patricia B., Assistant Professor (Mathematics), 1982
B.S.; M.A.; Ph.D., University of Cincinnati, 1982

Chae, Soo Bong, Professor (Natural Sciences), New College of USF, 1975 Sarasota Campus
B.S.; M.A.; Ph.D., University of Rochester, 1970

Chandler, Keith W., Associate Professor (Internal Medicine) 1981
B.A., M.D., Indiana University, 1975

Chang, Robert S.P., Associate Professor (Physics), 1985
B.Sc.; M.Sc., Ph.D., Cornell University, 1976

Chasteen, Brian C., Coordinator (University Center, Student Affairs), 1987
B.A.; M.S., Emporia State University, 1987

Cheval, George R., Director (Health Center Physical Plant), 1967
B.A., University of Missouri at Kansas City, 1950

Chedd, Louis A., Professor (Pharmacology & Therapeutics), 1986
M.D., Ph.D., University of Paris, 1953

Chen, Li-Tsun, Professor (Anatomy), 1980
B.S.; M.P.H., University of South Florida, 1986

Chen, Rou-Fuiie, Assistant In Research (Pediatrics), 1986 St. Petersburg Campus
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Chen, Tsong-Ming, Professor (Electrical Engineering), 1972
B.S.; Ph.D., University of Minnesota, 1964

Cherry, R. Adrian, Associate Professor (Languages), 1961
B.A., M.A., Ph.D., University of Kentucky, 1960

Chico, Innette M., Assistant In Research (Public Health), 1986
B.S.; M.P.H., University of South Florida, 1986

Childress, Karen L., Assistant In Research (Adult and Vocational Education), 1986
B.A., University of South Florida, 1986

Choi, Yulneel, Professor (Electrical Engineering), 1984
B.S.E.E.; M.S.E.E.; M.S.; Ph.D.E.E., Purdue University, 1969

Chirikos, Thomas N., Jr., Professor-Chairperson (Public Health), 1985
B.A.; M.A., Ph.D., Ohio State University, 1967

Chischine, Robert E., Associate Professor (English), 1967
B.A.; M.A.; Ph.D., Auburn University, 1971

Chmel, Herman Associate Professor (Internal Medicine), 1986
B.S.; M.D., Hahnemann Medical College, 1968

Chomick, Andrew L., University Physical Planning Consultant (Facilities Planning), 1986
B.Arch., University of Manitoba, 1948

Chrisman, Larry G., Associate University Librarian (Medical Center Library), 1978
B.A.; M.S.L.S.; Ph.D., Indiana University, 1975

Cimador, Anne C., Research Assistant In (Pediatrics), 1980
B.A.; B.S.N., M.A., University of South Florida, 1982

Cintron, Guillermo B., Associate Professor (Internal Medicine), 1983
B.S.; M.D., Loyola School of Medicine, Chicago, 1967

Cissna, Kenneth N., Associate Professor (Communication), 1979
B.A.; M.S.; Ph.D., University of Denver, 1975

Clapp, Roger W., Jr., Associate Professor (Physics), 1963
B.S.; M.S., Ph.D., University of Virginia, 1954

Clark, Ernest J., Budget Analyst (University Budgets), 1987
B.A., University of South Florida, 1980

Clark, Hewitt B., Professor-Program Director (Child and Family Studies, FMHI), 1983
B.A.; M.A., Ph.D., University of Kansas, 1972

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B.S.; M.S., University of Tennessee, 1972

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Clamp, Robert A., Professor (Cancer Education), 1986 (Part Time)
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Clark, William E., Professor (Mathematics), 1970
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Clarke, Barbara K., Associate Professor (Reading Education), 1977
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B.Sc., M.Sc.; Ph.D., National University of Ireland, 1978

Cleary, Lynn P., Associate Professor (Educational Leadership Education), 1970
B.A.; M.S.; Ph.D., Florida State University, 1970

Clements, Barry D., Head Athletic Trainer (NCAA Trainer, Student Affairs), 1984
B.S.; M.A., Kent State University, 1982

Clingman, Joy M., Associate Professor (Psychology), 1970 St. Petersburg Campus
B.A., M.S.; Ph.D., Florida State University, 1971

Cochran, Bruce J., Associate Professor (Biology), 1981
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Coffey, Ronald G., Associate Professor (Pharmacology), 1982
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Cohen, Cynthia F., Acting Associate Dean-Associate Professor (Management), 1982
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Cohen, Murray E., Associate Professor (Information Systems-Decision Sciences), 1983
B.A.; M.A.S., Ph.D., Georgia State University, 1976

Coker, John W., Associate Dean-Associate Professor (Fine Arts Events), 1969
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Cole, Nancy B., Acting Associate Dean-Professor (Theatre), 1976
A.B.; M.A.; M.F.A. in Acting, State University of Iowa, 1964

Cole, Roger W., Professor (Languages), 1969
B.A.; M.A.; Ph.D., Auburn University, 1968

Collie, Laurence H., Associate Professor (Adult and Vocational Education), 1968
B.S.; M.E.; M.E., University of Georgia, 1965

Collier, Troy L., Assistant to Vice President (Student Affairs), 1971
B.S.; M.L.A., Southern Methodist University, 1971

Collins, Cynthia S., Counselor/Advisor (Academic Advising), 1983 St. Petersburg Campus
B.A., University of South Florida, 1982

Collins, Paschal J., Assistant Professor (English), 1969
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Combee, Byron R., Visiting Assistant Professor (Education), 1983
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Compton, John S., Assistant Professor (Marine Sciences), 1986 St. Petersburg Campus
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B.A.; M.A.; M.A., Northwestern University, 1984

Cook, William E., Lecturer (Marketing), 1981
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Cooper, Clara B., Professor (Humanities), 1969
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Cunningham, Virginia P., Associate University Librarian (University Libraries), 1976

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Curran, John S., Professor-Director (Pediatrics), Director (Neonatal Service), 1972

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Currey, Cecil B., Professor (History), 1967

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Dagon, Eugene M., Associate Professor (Psychiatry), 1982

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D'Agostino, Alfred T., Assistant Professor (Chemistry), 1987

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Dao, My Lien, Assistant Professor (Pediatrics), 1986 St. Petersburg Campus

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Davis, Jefferson C., Jr., Professor (Chemistry), 1965

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Davis, Jeffrey P., Assistant Director (Intercollegiate Athletics Administration), 1982

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Davis, John S., Visiting Assistant Professor (Internal Medicine), 1983 (Part Time)

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Davis, Julia M., Dean-Professor (Social & Behavioral Sciences), 1987

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Davis, Lowell E., Dean-Professor St. Petersburg Campus, 1986

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Davis, Mack III, Coordinator (Academic Services), 1977

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Davis, Richard A., Jr., Professor (Geology), 1973

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Davis, Richard H., Physician's Assistant (Internal Medicine), 1987

B.A.; B.S., University of Florida, 1982

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B.S., Tampa College, 1982
Dawes, Clinton J., Professor-Chairperson (Biology), 1964
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B.S., M.S., Ph.D., McGill University, 1967
Deans, Stanley R., Professor (Physics), 1967
B.S.; M.S.; Ph.D., Vanderbilt University, 1967
Deats, Sara M., Associate Dean (Graduate School, Academic Affairs) Professor (English), 1970
B.A., M.A., Ph.D., University of California, Los Angeles, 1970
Debord, Warren A., Associate Professor (Marketing), 1969
B.S., M.B.A., Ph.D., University of Illinois, 1969
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B.A., M.D., University of South Florida, 1982
Deer, Harriet H., Professor (English), 1966 St. Petersburg Campus
M.A., University of Minnesota, 1964
Deer, Irving, Professor (English), 1966
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Deese, Wildred, Head Athletic Coach (Intercollegiate Athletics), 1979
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Defant, Marc J., Assistant Professor (Geology), 1983
B.S., B.S., M.S.; Ph.D., Florida State University, 1985
Dembo, Richard, Assistant Professor (Criminal Justice), 1981
Deme, Laszlo, Professor (History), New College of Sarasota Campus
M.A.: Ph.D., Columbia University, 1969
Denker, Martin W., Associate Professor (Psychiatry), 1972
B.A., M.D., Johns Hopkins University, 1968
Dennis, David M., Sr., Professor (Accounting), 1972
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Dertke, Max C., Associate Professor-Associate Director (Division of Programs, FMHII), 1967
B.A., Ph.D., University of Miami, Florida, 1968
Delsalvo, Joseph S., Professor-Director (Economics), 1983
B.A., M.A., Ph.D., Northwestern University, 1968
Devine, James F., Assistant Professor (Civil Engineering and Mechanics), 1965
B.S.; M.S., University of Illinois, 1960
Deyak, Timothy A., Associate Professor (Economics), 1984
B.S.; Ph.D., State University of New York at Binghamton, 1977
Diamond, Theresa M., Assistant In (Pediatrics), 1986
B.A.: M.S., Sarah Lawrence College, 1986
Diaz, Richard J., Instructor (Mechanical Engineering), 1984
B.S.M.E., M.S.M.E., University of South Florida, 1979
Dickerson, Donna L., Associate Professor-Chairperson (Mass Communications), 1977
B.J., M.A., Ph.D., Southern Illinois University, 1977
Dickinson, James C., Professor (Psychological and Social Foundations Education), 1969
A.B., A.M., Ph.D., University of Minnesota, 1964
Dickman, J. Fred, Associate Professor (Rehabilitation Counseling), 1970
Dieterle, Dwight A., Associate in (Marine Science), 1984
B.S.; M.S., San Jose State University, 1979
Dietrich, Linnea S., Professor (Visual Arts), 1968
B.A.; M.A., Ph.D., University of Delaware, 1972
Dietrich, Richard F., Professor (English), 1968
A.B.; M.A.: Ph.D., Florida State University, 1965
Dietz, John R., Associate Professor (Physiology), 1982
B.S.; M.D., University of Nebraska, 1979
Dilkes, Thomas P., Associate Professor (History), 1969
B.A., M.A., Ph.D., University of Iowa, 1964
Dillinger, Susan, Instructor/Librarian (Educational Resources), 1975
B.A.; M.A.L.S., University of South Florida, 1981
Dobiano, Andrea, Assistant Professor (Humanities), New College of USF, 1986 Sarasota Campus
B.A.: M.Phil., Ph.D., Yale University, 1980
Dinger, Carl, Instructor (Anesthesiology), 1985 (Part Time)
B.S., Ohio State University, 1973
Dinwoodie, Nancy D., University Psychiatrist (Student Health Services, Student Affairs), 1982 (Part Time)
B.A.; M.D., Indiana University, 1972
Dinwoodie, William R., Associate Professor (Internal Medicine), 1978
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Djek, Julie Y., Associate Professor (Medical Microbiology), 1984 (Part Time)
B.A.; Ph.D., George Washington University, 1973
Djeu, Nicholas L., Professor (Physics), 1983
B.S.; Ph.D., Cornell University, 1969
Doe, Christopher P., Associate Professor (Music Education), 1982
B.M.E.; M.M.; Ph.D., Ohio State University, 1981
Dobkin, Joseph B., Department Head/University Librarian (University Libraries), 1974
B.A., B.A.: M.L.S., Rutgers University, 1966
Dobias, Raquel, Assistant in Research (Suncoast Gerontology Center), 1986
B.S.; M.A., M.P.H., University of South Florida, 1986
Doecke, Justus, Professor (Social Sciences), New College of USF, 1975 Sarasota Campus
A.B.; M.A., Ph.D., Princeton University, 1966
Doherty, Margaret M., Assistant University Librarian (University Libraries), 1987
B.A.; M.S.; M.L.S., Indiana University, 1984
Domen, Ronald E., Assistant Professor (Pathology), 1984
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Donaldson, Dennis F., Assistant Athletic Coach (Intercollegiate Athletics), 1986
B.S.; M.Ed., University of Southwestern Louisiana, 1974
Donis, Jack P., Lecturer (Accounting), 1982
B.A.; M.B.A., Ph.D., University of Chicago, 1949
Donnelly, Joseph, Assistant In Research (Marine Science Program), 1983
B.S., University of West Florida, 1979
Donovan, Nancy, Coordinator (University Center Student Affairs), 1987
B.A., M.A., Bowling Green State University, 1981
Dow, Michael G., Assistant Professor-Program Director (Community Mental Health, FMHII), 1985
B.S.; M.S., Ph.D., Pennsylvania State University, 1983
Dowd, A. Geraldine, Professor (Nursing), 1978
B.S.; M.S., Ed.D., Boston University, 1971
Downs, Bernard F., Associate Professor (Communication), 1970
Doyle, James P., Academic Administrator (Crime & Delinquency, FMHII), 1981
B.S.; M.Div.; M.S., Cornell University, 1966
Doyle, Larry J., Professor (Marine Science), 1972 St. Petersburg Campus
B.A., M.A.; Ph.D., University of Southern California, 1973
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B.S.; Ph.D., University of North Carolina, Chapel Hill, 1973
Drapel, Victor J., Professor-Chairperson (Counselor Education), 1968
Ph.L.; M.A., Ph.D., University of North Dakota, 1968
Drash, Philip W., Associate Professor (Children & Family Studies, FMHII), 1981
B.A.; M.A.; Ph.D., Texas Tech University, 1963
Driscoll, R. F., Associate Director (University Computer Services), 1987
B.A., University of South Florida, 1986
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<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
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<tr>
<td>Duchnowski, Albert J.</td>
<td>Visiting Associate Professor</td>
<td>Epidemiology and Policy Analyst, FMHII</td>
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<td></td>
<td></td>
<td>1985</td>
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<tr>
<td>B.S.; Ph.D.</td>
<td>Vanderbilt University, 1969</td>
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<td>Duffus, Lee</td>
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<td>Dungan, Christopher W.</td>
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<td>Dupree, Larry W</td>
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<td>1981</td>
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<td>Eilers, Frederick</td>
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<td>Eichler, Duane C.</td>
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<td>Memphis State University, 1980</td>
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<tr>
<td>Dutton, Richard E</td>
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<td>1963</td>
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<td>Elbare, John M</td>
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<td>Suncoast Gerontology Center, 1982</td>
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<td>Echevarria, Katherine H.</td>
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<td>1985</td>
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<td>Eflin, James C</td>
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<td>1984</td>
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<td>University of Iowa, 1957</td>
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<td>Eger, Howard S</td>
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<td>1973</td>
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<tr>
<td>Engel, Charles W</td>
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<td>1966</td>
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<td>Engel, Terry J</td>
<td>Associate Professor (Accounting)</td>
<td>1983</td>
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<td>Ed.M., Boston University, 1983</td>
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Garcia, Mario R., Professor (Mass Communications), 1982
B.A.; M.A.; A.D. University of Miami, 1976
Garce, Sandra A., Associate Professor (Psychology), 1974
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Garcia, Sonja W., Associate University Librarian (University Libraries), 1964
B.S.; M.A.; University of South Florida, 1977
Garcia-Rubio, Luis H., Associate Professor (Chemical Engineering) 1983
B.E., Ph.D., McMaster University, 1980
Gardner, Henry R., Coordinator (Development and Alumni Affairs, University Relations), 1983
B.A.A. University of Florida, 1949
Garrels, Robert M., Graduate Research Professor Emeritus (Marine Science), 1979 St. Petersburg Campus
B.S.; M.S., Ph.D., Northwestern University, 1941
Garrett, Samuel J., Professor (Electrical Engineering), 1967
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*Garrett, William, Professor (English), 1960 St. Petersburg Campus
B.S.; M.A., Ph.D., University of Florida, 1965
Gauger, Lisa L., Coordinator (Neurology), 1987
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George, Deborah L., Assistant Instructor (Psychology), 1974
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Gerdes, A. Martin, Assistant Professor (Anatomy), 1982 (Part Time)
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Gerdes, Joan G., Coordinator, Sports Information (Athletics, Student Affairs), 1987
B.A., Purdue University, 1984
Germay, Bernard P., Professor (Internal Medicine), 1976
B.A.; M.D., Medical College of Georgia, 1966
Gesten, Ellis L., Professor (Psychology), 1980
B.A.; M.A., Ph.D., University of Rochester, 1974
Gibbons, Michael T., Assistant Professor (Political Science), 1984
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Gierlach, Daniel J., Acting Head Athletic Coach (Intercollegiate Athletics), 1982
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Gieron-Korthals, Maria A., Program Director (Center for Children with Learning Disabilities, Education), 1981
M.D., Medical School, Warsaw, Poland, 1971
Gilbert, Richard, Associate Professor (Chemical Engineering), 1978
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Givens, Paul E., Professor-Chairperson (Industrial and Management System Engineering), 1987
B.S.; M.B.A.; Ph.D., University of Texas at Arlington, 1976
Glass, Harvey, Professor (Computer Science and Engineering), 1969
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Glover, Kofi R.A., Associate Professor-Program Director (Interdisciplinary Social Sciences), 1972
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Goforth, Frances S., Associate Professor (Childhood Education), 1967
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Goldman, Allan L., Professor (Internal Medicine), 1974
B.A., B.S., M.D., University of Minnesota, 1968
Goldman, Mark S., Professor-Program Director (Psychology), 1985
B.S.; M.S., Ph.D., Rutgers University, 1972
Goliz, Eileen M., Continuing Education Coordinator (Executive MBA Program), 1981
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Gomes, Joseph L., Associate Instructor (Computer Science and Engineering), 1987
B.E., Mysore University, India, 1981
Gomez, Rafael A., Associate Professor (Radiology), 1977
B.S., B.A.; M.D., University of Habana School of Medicine, 1943
Gomez-Sanchez, Celso E., Professor (Internal Medicine), 1980
B.S.; M.D., University of San Marcos, Lima, Peru, 1968
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B.A.; D.V.M., Ph.D., Texas A&M University, 1982
Gondek, Allen R., Associate Professor (Electrical Engineering), 1982
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Gonzalez, Joe V., Academic Administrator (Health Services, FMHI), 1981
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Gonzalez, Lois, Assistant Professor (Nursing), 1983
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Gonzalez, Orlando R., Visiting Assistant Professor (Pathology), 1987
M.D., University of Zaragoza, 1955
Good, Robert A., Professor-Chairperson (Pediatrics), 1985 St. Petersburg Campus
B.A.; M.D., University of Minnesota, 1947
Gooding, Dolores K., Instructor-Director (Engineering Technology Program), 1975 St. Petersburg Campus
B.S.E.E., M.S.E., University of South Florida, 1975
Goodman, Adolph W., Distinguished Service Professor (Mathematics), 1964
B.Sc.; M.A.; Ph.D., Columbia University, 1947
Goodwin, Beth A., Assistant Instructor (Pediatrics), 1985
B.S.; M.S., University of Cincinnati, 1985
Gordon, Charles A., Coordinator (Undergraduate Advising, Education), 1968
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Gordon, Horace C., Lecturer (Bi-County Center for Engineering), 1973 Sarasota Campus
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Gordon, Pearl A., Assistant Professor (Communicology), 1985
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Gorham, M. Candace, Associate In (Economic & Research Control), 1968
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Gould, James A., Professor (Philosophy), 1964
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Grahahe, Vicki Ann, Instructor/Librarian (University Libraries), 1986
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Grange, Roger T., Jr., Professor (Anthropology), 1964
B.A., M.A., Ph.D., University of Arizona, 1962

Grant, Clayton T., Acting Coordinator, Advancement/Alumni Affairs/Development/Alumni Affairs, 1987
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Grasso Robert J., Associate Professor (Medical Microbiology), 1971
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Graven, Stanley N., Professor-Chairperson (Public Health), 1984
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Gray, Jim S., Jr., Associate University Librarian (University Libraries), 1980
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Greenbell, Leon C., Jr., Professor (Childhood Education), 1970
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Greenley, Robert J., Associate Professor (Elective Physical Education), 1987
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Green Peery, Jack D., Visiting Professor (Pulmonary Medicine), 1985
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Grindey, Robert J., Associate Professor (Elective Physical Education, Education), 1964
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Grothmann, Wilhelm H., Associate Professor (Languages), 1966
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Guetzle, Eleanor C., Associate Professor (Exceptional Child Education), 1968 St. Petersburg Campus

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Hancock, Tina U., Associate Professor (Social Work), 1982
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Hanks, Marilyn K., Coordinator of Development and Alumni Affairs (Educational Resources), 1986
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Hanley, Patricia E., Associate Professor (Childhood Education), 1981
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Hanni, Eila A., Associate Professor (Economics), 1970
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Hardy, Deidre J., Associate Professor (Graduate Architecture Program), 1987
Hardy, Miles W., Professor (Psychology), 1960
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Hargis, Edyth N., Lecturer (Management), 1980
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B.A., A.B.L.S., M.S., Columbia University, 1958
Harmon, Maryhelen C., Associate Professor (English), 1964
A.B.; M.A.T.; Ph.D., Florida State University, 1981
Harmon, Sarah G., Associate University Librarian (Medical Center Library), 1976
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Harneit, Carol S., Continuing Education Coordinator (Weekend College), 1982
B.A.; M.A., Ph.D., St. Johns University, 1982
Harper, Hilary Q., Visiting Assistant Professor (Criminal Justice), 1987
B.A.; M.R.C.; Ph.D., Sam Houston State University, 1974
Harrigan, Michael P., Lecturer (Graphic Studio, Academic Affairs), 1985
Harrington, Thomas C., Assistant Professor (Information Systems Decision Sciences), 1987 Fort Myers Campus
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Harris, Lebrone C., Associate Professor (Accounting), 1970
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Harrigan, Willard S., Professor-Associate Chairperson (Internal Medicine), 1980
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Hartley, Albert C., Executive Vice President, 1971
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Hartmann, Robert C., Professor (Internal Medicine), 1974
A.B.; M.D., Johns Hopkins University, 1944
Hartshfield, James K. Jr., Visiting Assistant Professor (Pediatrics), 1986
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Hartung, Mary K., University Librarian (Libraries), 1978
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Hassold, Cris, Associate Professor (Humanities), New College of USF, 1975, Sarasota Campus
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Hausman, Marcia S., University Counseling Psychologist (Counseling Center for Human Development), 1984
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Hawkins, Annie L., Associate Professor (Music Arts), 1969
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Hawkins, Herbert H., Lecturer (Counseling Center for Human Development, Student Affairs), 1971
B.S., M.A., Ed.D., George Washington University, 1964
Heal, Albert V., Associate Professor (Cancer Education), 1987
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Heaton, David G., Acting Coordinator (Public Service Delivery Program, FMHI), 1987
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Hechiche, Abdelwahab, Associate Professor (Interdisciplinary Social Science), 1970
B.A., Docteur en Etudes Orientales, Sorbonne, 1966
Hechiche, Amaj J., Assistant Professor (Languages), 1980
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Heck, James B., Associate Vice President-Professor (Provost’s Office, Academic Affairs), 1978
B.S., M.A., Ph.D., Ohio State University, 1967
Heesch, Richard E., Professor (Elective Physical Education, Education), 1962
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Heiler, Jack J., Professor-Chairperson (Music), 1985
B.Mus.; M.D., University of Iowa, 1962
Heim, Mark D., Visiting Assistant Professor (Psychiatry), 1986
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Henderson, J. Neil, Assistant Professor-Coordinator (Suncoast Gerontology Center), 1981
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Henderson, James R., Systems Coordinator (University Computing Services), 1986
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Henley, Elton F., Professor (English), 1963
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B.S.E.E.; M.S.E.E.; Sc.D., Columbia University, 1954, P.E.
Hensel, James S., Associate Professor (Marketing), 1976 St. Petersburg Campus
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Henson, Thomas H., Network Control Coordinator (University Computing Services, RDC), 1972
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B.S.; M.A.; Ph.D., Georgetown University, 1987
Herold, Nina N., Assistant In (Pediatrics), 1985 (Part Time)
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B.S.; M.A.; Ed.D., Western Michigan University, 1972
Hewitt, Margaret A., Visiting Instructor (Childhood Education), 1981
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Hicks, Robert A., Visiting Assistant Professor (Adult and Vocational Education), 1985
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Hibbelin, Don R., Associate Professor (Anatomy), 1980
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Hill, Lynda B., Director of Academic Budgets (Academic Affairs), 1977
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Hill, Raymond, Associate Professor-Chairperson (Adult and Vocational Education), 1971
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Hine, Albert C., Professor (Marine Science), 1979 St. Petersburg Campus
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Hines, Constance V., Assistant Professor (Educational Measurement and Research), 1983
B.A.; M.A.; Ph.D., Ohio State University, 1981
Hinsch, Gertrude W., Professor (Biology), 1974
B.S.; M.S., Ph.D., Iowa State University, 1957
Hinz, John, Professor (English), 1979 St. Petersburg Campus
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Hodgson, Glenda P., Associate Director, Alumni Services Development/Alumni Affairs, 1986
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Hodgson, John S., Professor-Chairperson (Information Systems-Decision Sciences), 1980
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Hof, James E., Director (Academic Development), 1984, Ft. Myers
B.A.; M.A., Bowling Green State University, 1951
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Hoffman, Hubert A., Professor-Chairperson (Professional Physical Education), 1966
B.S.; M.Ed.; P.E.D., Indiana University, 1969
Hoffman, Michael S., Visiting Assistant Professor (Obstetrics and Gynecology), 1985
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Hoffman, Theodore B., Professor (Humanities), 1962
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Holcomb, Dan L., Associate Professor-Assistant Director (Physical Education Facilities and Administration), 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)
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Holmes, Roland C., Assistant Professor (Geography), 1974 St. Petersburg Campus
A.B.; M.S.; Ph.D., University of Chicago, 1979
Holoubek, Alan R., Lecturer (Graphic Studio, Academic Affairs), 1985
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B.M., M.M., Florida State University, 1974
Homan, Susan P., Associate Professor (Childhood Education), 1978
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Honker, H. Andrew, Associate Professor-Director (Physical Education, Student Affairs), 1969
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Hooper, Robert J., Assistant Professor (Geology), 1984
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Hopkins, Thomas L., Professor-Associate Chairperson (Marine Science), 1967 St. Petersburg Campus
B.A., M.A., Ph.D., Florida State University, 1964
Horowitz, Tony, Assistant Professor (Natural Sciences), New College of USF, 1987 Sarasota Campus
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Houk, C. Wesley, Associate Professor (Visual Arts), 1961
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Hubbell, David S., Associate Professor (Surgery), 1984
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Hudson, Michael C., Systems Coordinator (Fiscal Services and Budget, Medicine), 1976
B.S., University of Florida, 1976
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Hultbary, William E., Associate Professor (Political Science), 1976
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Hunt, John J., Associate Professor (Educational Leadership), 1985
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Hunter, Eric D., Coordinator Student Affairs (Physical Education, Student Affairs), 1987
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Hutchison, William S., Jr., Associate Professor (Social Work), 1977
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Ingram, James M., Professor-Chairperson (Obstetrics and Gynecology), 1971
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Jackson, John A., Associate Director (University Computing Services), 1967
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Johnson, Doyle P., Associate Professor (Sociology), 1969
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Johnson, Frank E., Jr., Professor (Adult and Vocational Education), 1971
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Johnson, Mark A., Resident Advisor to Students (Student Housing), 1985 Sarasota Campus
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Johnson, Judy F., Associate University Librarian (Medical Center Library), 1986
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Johnson, Maureen F., Associate Director (Financial Aids, Student Affairs), 1974
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Jolivet, Colette R., Research Scholar/Scientist (Pharmacology), 1986
B.E.I., M.S., Ph.D., University of Paris Val De Marne, 1978
Jolivet, Michael E., Assistant Professor (Medical Microbiology), 1986
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Junkin, Jerry F., Associate Professor (Music), 1984
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Kleiman, Michael B., Associate Professor-Chairperson (Sociology), 1978
B.A., M.A., Ph.D., Pennsylvania State University, 1979
Klein, Malcolm T.D., Visiting Assistant Professor (Anesthesiology), 1986 (Part-time)
Klein, Michael B., Associate Professor-Chairperson (Sociology), 1972
B.S., M.A., Ph.D., Florida State University, 1980
Kleisius, Stephen E., Professor (Professional Physical Education, Education), 1969
B.S., M.A., Ph.D., Louisiana State University, 1968
Kline, George, Counselor Professor (History), 1968
Ph.D., University Erlangen-Nurnberg, 1967
Kleppinger, Ronald R., Director of Records and Registration (Registrar), 1982
A.B., M.B.A., Rensselaer Polytechnic Institute, 1979
Klesius, Janell P., Associate Professor (Childhood Education), 1972
B.S., M.A., Ph.D., Florida State University, 1980
Klesius, Stephen E., Professor (Professional Physical Education, Education), 1969
B.S., M.A., Ph.D., Florida State University, 1977
Knaus, Paula N., Associate Vice President (Administrative Affairs), 1982
B.A., M.A., University of Georgia, 1973
Kneeburg, Don W., Associate Professor (Music Arts), 1968
B.A., M.M., Indiana University, 1962
Kneg, John M., Associate Professor (Library, Media, and Information Studies, Education), 1975
M.A., Ph.D., Indiana University, 1974
Kneppler, Eith G., Department Head/University Librarian (University Libraries), 1975
B.A., M.S.L.S., University of Kentucky, 1960
Kneip, Peter O., Visiting Associate Professor (Internal Medicine), 1984 (Part-Time)
M.D., Tufts University School of Medicine, 1959
Koepner, Jay T., Associate Professor (Management), 1970
B.B.A., M.B.A., B.B.A., Florida State University, 1970
Knoff, Howard M., Associate Professor (Psychological and Social Foundations Education), 1985
A.B., M.S., Ph.D., Syracuse University, 1980
Knox, Michael D., Associate Professor-Chairperson (Community Mental Health, FMHI), 1986
B.A., M.S.W., M.A., Ph.D., University of Michigan, 1974
Knox, Robert H., Professor (Humanities), New College of USF, 1975
Sarasota Campus
A.B., Ph.D., Harvard University, 1959
Knauel, Robert A., Professor (Obstetrics-Gynecology), 1979
B.S., M.P.H., M.D., New Jersey College of Medicine, 1973
Ko, Wai L., Associate Professor (Electrical Engineering), 1987
B.S.E.E., M.S.E.E.: Ph.D., University of Illinois, Urbana, 1976
Koehler, Jerry W., Associate Professor-Acting Chairperson (Management), 1976
Kogut, Carl A., Assistant Professor (Economics), 1985
B.A., Ph.D., Texas A&M University, 1984
Kondo, Takashi, Associate Professor (Internal Medicine), 1986
B.S., M.S., Ph.D., University of Tokushima, 1986
Kori, Shashidhar H., Associate Professor (Neurology), 1984
M.B.B.S., Kasturba Medical College, India, 1970
Korthals, Jan K., Associate Professor (Neurology), 1980
M.D.: Ph.D., Medical School, Warsaw, Poland, 1968
Kosberg, Jordan L., Professor (Gerontology), 1981
B.S., M.S.S.W.: Ph.D., University of Chicago, 1971
Krause, Boris, Professor (Pediatrics), 1981
M.D., High Institute of Medicine, in Sofia, Bulgaria, 1959
Kovac, Michael G., Dean-Professor (Engineering), 1979
B.S.E.E.: M.S.E.E.: Ph.D., in E.E., Northwestern University, 1970
Kraus, Stanley C., Professor (Civil Engineering and Mechanics), 1972
B.S.S.E., Ph.D., Northwestern University, 1968, P.E.
Kranendonk, Barbara, Visiting Assistant in Research (Diabetes Center), 1985 (Part Time)
B.A.: M.A.: M.A., California State University, Northridge, 1976
Krieman, Tony, Visiting Assistant Professor (Pediatrics), 1986
M.B., B.Ch., University of The Witwatersrand, Johannesburg, South Africa, 1975
Kronsonne, Jeffrey M., Professor (Visual Arts), 1963
B.S., M.F.A., University of Michigan, 1963
Kruschwitz, Walter H., Associate Professor (Physics), 1967
A.B.: M.A.: Ph.D., University of Michigan, 1961
Krzanski, Joseph J., Professor-Assistant Chairperson (Pharmacology), 1971
B.S., M.A., Ph.D., University of Tennessee, 1968
Kuffel, Constance F., Instructor (Communicology), 1969
B.A., M.A., University of South Florida, 1968, C.C.C.
Kulkami, Arun, Professor (Public Health), 1987
B.Sc., M.Sc.: Ph.D., Indian Agricultural Research Institute, 1970
Kunak, Denny V., Assistant Professor (Industrial and Management Systems Engineering), 1983
Kurtz, Ann W., Instructor (Nursing), 1985
B.S.N.: M.S.N., University of Colorado, 1964
Kurtz, Leslie, Assistant In (Pediatrics), 1987
B.S., M.D., University of New Mexico, 1978
Kushner, Gilbert, Professor (Anthropology), 1970
B.A., M.A., Ph.D., University of Arizona, 1968
Kuta, Krista B., Assistant In (Epidemiology and Policy Analyst, FMHI), 1977
B.S., M.B.A., University of South Florida, 1984
Kutch, Louis W. Jr., Assistant Professor (Sociology), 1967
B.A., M.A., Ph.D., University of Minnesota, 1972
Kutch, Nancy J., Director (Information Services), 1969
B.A., Hanover College, 1956
Kwa, Boo H., Assistant Professor (Public Health), 1986
B.S., M.S., Ph.D., University of Malaya, 1977
La Barba, Richard C., Professor (Psychology), 1966
B.A.: Ph.D., University of Tennessee, 1965
Lachs, Gerald, Professor (Electrical Engineering), 1984
B.S.: M.S., Ph.D., Syracuse University, 1964
Lachs, Sandra P., Assistant Director (Administration, FMHI), 1984
B.A., M.Ed., Pennsylvania State University, 1983
Lake, Marian, Visiting Assistant in (Obstetrics and Gynecology), 1984
B.S.N.: M.P.H., University of South Florida, 1985
Lambert, Douglas M., Professor (Marketing), 1985
B.A., M.B.A., Ph.D., Ohio State University, 1975
Lanctast, Thomas M., Assistant In (Marine Science), 1981
B.A., University of California, Santa Barbara, 1977
Lancz, Gerald J., Associate Professor (Medical Microbiology), 1971
A.B.: M.S., Ph.D., Northwestern University, 1970
Lander, Gerald H., Professor (Accounting), 1981
Landers, Myrtle, Counselor/Advisor (Undergraduate Studies), 1981

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Landisman, Murray J., Associate Professor (Rehabilitation Counseling), 1969

B.S., M.A., Ph.D., University of Florida, 1964
Langelier, Judith A., Visiting Instructor (International Language Institute), 1987

B.A.: M.A., University of South Florida, 1986
Langston, Douglas C., Associate Professor-Chairperson (Humanities), New College of USF, 1977 Sarasota Campus

B.A.: M.A.; Ph.D., Princeton University, 1978
Lantz, Donald L., Professor (Psychological and Social Foundations, Education), 1961

A.B., M.A., Ph.D., University of Minnesota, 1961
Lapan, Pamela R., Student Affairs Coordinator (Admissions, Student Affairs), 1984

B.A., M.A., University of South Florida, 1987
La Polla, James P., Assistant Professor (Obstetrics and Gynecology), 1986

B.S., M.D., University of Illinois, 1975
Larson, Mernet L., Professor (Visual Arts), 1967

B.F.A.; M.F.A., Indiana University, 1965
Lasseter, James Jr., Assistant Professor (Accounting), 1966

B.S.; M.B.A., University of Chicago, 1964, C.P.A.
*Latina, Albert A., Lecturer (Biology), 1960

B.A.; M.S., Florida State University, 1960
Laursen, Gary A. H., Associate Professor (Accounting/Law), 1980

B.S.; J.D., LL.M., University of Miami Law School, 1972, C.P.A.
Lavallee-Grey, Muriel C., Visiting Assistant Professor (Pathology), 1987

M.D., University of Montreal, 1977
Lavely, Carolyn D., Professor-Program Director (College Administration, Education), 1970

B.A., M.A., Ph.D., Syracuse University, 1968
Lawlor, Patrick W., Resident Advisor to Students (University Housing and Auxiliary Services, Student Affairs), 1987

B.A., M.P.A., University of South Florida, 1986
Lawrence, John M., Professor (Biology), 1965

B.S.; A.M., Ph.D., Stanford University, 1966
Lawrence, Raymond W., Visiting Assistant In (Educational Measurement & Research, Education), 1983

B.S., M.Ed., Bowling Green State University, 1955
Laws, D. Richard, Professor (Crime and Delinquency, FMHI), 1985

B.A.; M.A., Ph.D., Southern Illinois University, 1969
Lawson, Steven F., Professor (History), 1972

B.A.; M.A., Ph.D., Columbia University, 1974
Lax, Bernard, Professor (Exceptional Child Education), 1979

B.A.; M.A., Ph.D., University of Texas, 1970
Layden, William E., Professor-Chairperson (Ophthalmology), 1972

B.A., M.D., University of Vermont, 1963
Layman, Jay S., Director (Medical Student Affairs), 1971

B.S., Florida State University, 1968
Lease, Loretta, Assistant In (Pediatrics), 1971

B.A., University of South Florida, 1977
Leavengood, Lee B., Director (Continuing Education), 1973

B.S.; M.A., University of South Florida, 1973
Leaverton, Paul E., Professor-Chairperson (Public Health), 1985

B.S., M.S., Ph.D., Iowa State University, 1963
Ledford, Dennis K., Visiting Assistant Professor (Internal Medicine), 1985

B.Ch.Eng.; M.D., University of Tennessee, 1976
Lee, Barton W., Associate Professor (Theatre), 1982

B.S.; M.A., West Virginia University, 1978
Lee, Hui, University Physician (Student Health Services, Student Affairs), 1985

M.D., Guangzhou Medical College, 1964
Lee, Sung Jae, Professor (Mathematics), 1981

B.Sc.; M.A.; Ph.D., McMaster University, Canada, 1972
Lee, William E. III, Assistant Professor (Chemical Engineering), 1984

B.S.Ch.E.; M.S.Ch.E.; Ph.D., University of Cincinnati, 1984
Leeds, Robert L. Jr., Lecturer (Business Administration), 1982

B.A.; M.B.A., Wharton School, University of Pennsylvania, 1953
Leffers, David, Assistant Professor (Orthopedic Surgery), 1984

B.A.; M.D., University of Tennessee, 1978
Leffew, James T., Assistant Professor (Electrical Engineering), 1985

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Lefor, William M., Associate Professor (Internal Medicine), 1979

B.A.; M.S., Ph.D., Indiana University Medical Center, 1968
Lehtomain, Kirk, Director, Radio/TV Station (Television), 1987 Ft. Myers Campus

B.S., Bowling Green State University, 1973
Leibowitz, Alan L., Associate Dean (Student Affairs), Associate Professor (Internal Medicine), 1979

B.A.; M.D., State University of New York at Buffalo, 1970
Lenker, Lagretta T., Continuing Education Coordinator (Extended Studies), 1984

B.A.; M.S., Florida State University, 1968
Lentz, Glenda F., Director (Career Development Service, Career Resource Center), 1968

B.A.; M.A., University of South Florida, 1972
Leonard, Donna R.C., University Librarian (Educational Resources), 1979

B.A.; M.A.; MALS, Rosary College, 1971
Lerner, Ronald I., Assistant Department Head/Associate University Librarian (Library), 1986 Sarasota Campus

B.A.; M.S.Ed.; M.Ln., Emory University, 1983
Leslie, Larry Z., Assistant Professor (Mass Communications), 1986

B.S.E.; M.A.; Ph.D., University of Tennessee, 1986
Le Vasseur, Michel L., Instructor (Geography), 1980

B.A., M.A., University of South Florida, 1973
Levin, Bruce L., Assistant Professor (Epidemiology and Policy Analyst, FMHI), 1984

B.S.; M.P.H.; D.P.H., University of Texas, 1983
Levin, Peter J., Dean-Professor (Public Health), 1984

B.A.; M.P.H.; D.Sc., Johns Hopkins School of Hygiene and Public Health, 1969
Levine, Edward L., Professor-Associate Chairperson (Psychology), 1977

B.S.; Ph.D., New York University, 1970
Levy, Arthur B., Associate Professor (Political Science), 1970

B.A.; M.A., Ph.D., Harvard University, 1969
Levy, Charlene C., Associate Professor-Chairperson (Social Sciences), New College of USF, 1975 Sarasota Campus

B.A., M.A., Michigan State University, 1975
Levy, John W., Associate Professor (Content Specializations, Education), 1972

B.S.; M.A.; Ed.D., University of Georgia, 1970
Lewis, Eugene, Professor (Social Sciences), New College of USF, 1978 Sarasota Campus

B.A.; M.A.; Ph.D., Syracuse University, 1967
Lewis, James E., Professor (Music Arts), 1971

B.M., M.M., University of Illinois, 1965
Lewis, Michael T., Acting Coordinator, Advancement/Alumni Affairs (Athletics, Student Affairs), 1987

B.A., University of South Florida, 1983
Lewis-Campbell, Wanda, Assistant to Vice President (Student Affairs), 1980

B.A.; M.S.W., University of Connecticut School of Social Work, 1978
Liang, Diane F., Assistant Department Head/University Librarian (University Libraries), 1972

B.A.; M.ALS., George Peabody College, 1964
Liang, Joseph J., Professor (Mathematics), 1970

B.A., M.A., Ph.D., Ohio State University, 1969
Lichtenberg, Betty K., Professor (Content Specializations, Education), 1971

B.A.; M.A.; Ph.D., University of Illinois, 1967
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<th>Name</th>
<th>Position/Institution</th>
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<td>B.S.; M.D. Albany Medical School, 1967</td>
<td>Marsh, Bruce L., Professor (Visual Arts), 1969</td>
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<td>B.A.; M.A. California State University, 1965</td>
<td>*Marshall, Phyllis P., Director (University Center, Student Affairs), 1960</td>
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<td>B.A.; M.A., Gannon University, 1972</td>
<td>Martin, Dean F., Professor (CHEMISTRY), 1964</td>
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<td>A.B.; Ph.D., Pennsylvania State University, 1958</td>
<td>Martin, James R., Associate Professor (ACCOUNTING), 1982</td>
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<td>B.S.; M.S.; Ph.D., University of Alabama, 1976</td>
<td>B.M.A.</td>
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<td>Martini, Patricia A., Associate Director (Student Affairs), Lakeland Center, 1982</td>
<td>B.S.; M.A.; M.B.A. University of Tampa, 1985</td>
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<td>Mason, Frank T., Assistant Professor (English), 1969</td>
<td>B.A.; M.A., Ph.D., Michigan State University, 1974</td>
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<td>Mason, Walter R., Assistant Professor (Visual Arts), 1987</td>
<td>B.A.; M.F.A., Indiana University, 1977</td>
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<td>Massie, Paul, Professor (THEATRE ARTS), 1974</td>
<td>Matheny, Arthur A., Assistant in (Natural Sciences), 1984</td>
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<td>B.S.; M.S., Purdue University, 1971</td>
<td>Maurer, Peter M., Assistant Professor (Computer Science and Engineering), 1987</td>
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<td>B.A.; M.S., Ph.D., Iowa State University, 1982</td>
<td>Mauser, August J., Professor-Chairperson (Exceptional Child Education), 1981</td>
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<td>B.S., M.S. Ed., Indiana University, 1968</td>
<td>Mayer, George H., Professor (History), 1969 Sarasa Campus</td>
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<td>B.A.; M.A.; Ph.D., University of Minnesota, 1948</td>
<td>Mazur, Joseph L., Professor-Chairperson (Measurement and Research Education), 1970</td>
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<td>A.B.; M.A.; Ph.D., Case Western Reserve University, 1962</td>
<td>McAllister, Linda L., Professor (Interdisciplinary Social Science), 1982</td>
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<td>A.B.; Ph.D., Cornell University, 1968</td>
<td>McCain, Hance C., Coordinator Advancement/Alumni Affairs (Athletic Administration, Student Affairs), 1984</td>
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<td>McCarty, Timothy L., Associate Director (University Center, Student Affairs), 1986</td>
<td>B.A.; M.A.T., College of St. Thomas, 1974</td>
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<td>McClellan, Leslie, Professor (Childhood Education), 1964</td>
<td>B.S., M.Ed., Ed.D., University of Missouri, 1961</td>
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<td>McClendon, Paul E., Associate Dean-Professor (Educational Leadership Education), 1969 Sarasa Campus</td>
<td>B.S.; M.A.; Ed.D., Florida State University, 1963</td>
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<td>B.A.; M.A.; Ph.D., University of California, Los Angeles, 1986</td>
<td>McCollm, Greg Wright, Assistant Professor (Mathematics), 1986</td>
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<td>McCormick, Robert M., Associate Professor (Music Arts), 1974</td>
<td>B.A.; M.A.; San Jose State University, 1973</td>
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<td>B.A.; M.A., University of Illinois, 1966</td>
<td>McCoy, Earl D., Associate Professor (Biology), 1978</td>
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<td>B.S.; M.S.; Ph.D., Florida State University, 1977</td>
<td>McCrosan, John A., Professor (Library, Media, and Information Studies, Education), 1977</td>
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<td>B.A.; M.A., Ph.D., University of Iowa, 1966</td>
<td>McDermott, Robert L., Associate Professor (Public Health), 1986</td>
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<td>B.S.; M.S.; Ph.D., University of Wisconsin, Madison, 1981</td>
<td>McDermott, Charles E., Lecturer (Electrical Engineering), 1978</td>
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<td>B.A.; M.P.H., M.D., Yale University, 1980</td>
<td>B.E.E.; M.S.E.E., Massachusetts Institute of Technology, 1954 P.E.</td>
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<tr>
<td>McDonough, Gary W., Associate Professor (Social Sciences), New College of USF, 1981 Sarasa Campus</td>
<td>B.A.; M.A., Johns Hopkins University, 1981</td>
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<td>McEvoy, Cathy L., Assistant Professor (Aging and Mental Health, FMH), 1983</td>
<td>B.A.; M.A., Ph.D., University of South Florida, 1982</td>
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<td>B.S.; M.A., Southern Illinois University, 1970</td>
<td>McFall, Susan G., Instructor (International Language Institute), 1984</td>
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<td>*McFarland, Joe E., Assistant Athletic Coach (INTERCOLLEGIATE Athletics-Men's Baseball, Student Affairs), 1985</td>
<td>B.A.; M.A., Appalachian State University, 1982</td>
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<td>McCinnis, Charles E., Lecturer (Electrical Engineering), 1978</td>
<td>B.A.; M.A., Appalaqian State University, 1982</td>
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<td>McGrath, Roger R., Assistant Professor (Information Systems, Decision Sciences), 1981</td>
<td>B.S.; M.P.S.; D.B.A., Florida State University, 1982</td>
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<tr>
<td>Mcguinness, Diane, Associate Professor (Psychology), 1985, Ft Myers Campus</td>
<td>B.A.; B.S.c.; Ph.D., University College, London, 1974</td>
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<tr>
<td>Mcintosh, Nancy J., Assistant Professor (Management), 1981 St. Petersburg Campus</td>
<td>B.A.; M.A., Ph.D., University of Florida, 1984</td>
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<td>McKay, Ralph L., Academic Administrator (Development), 1987, St. Petersburg Campus</td>
<td>B.S.; M.A.; Ph.D., University of Pittsburgh, 1980</td>
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<tr>
<td>McNeill, Thomas E., Associate Dean-Professor (Medicine), 1985</td>
<td>B.A.; M.D., University of Tennessee, 1939</td>
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<td>McLaughlin, Thomas E., Associate Professor (Visual Arts), 1978</td>
<td>B.A.; M.F.A., Indiana University, 1978</td>
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<tr>
<td>McLeary, Edward F., Associate Professor (Languages), 1960</td>
<td>B.A.; Ph.D., Duke University, 1961</td>
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<tr>
<td>McMillan, Susan C., Associate Professor (Nursing), 1983</td>
<td>B.S.; M.Ed.; B.S.N.; Ph.D., M.S.N., University of South Florida, 1984</td>
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<tr>
<td>McNair, A. Jeanene, Department Head/University Librarian (University Libraries), 1965</td>
<td>B.A.; M.A., Indiana University, 1965</td>
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<tr>
<td>Mcnamara, Nancy M., Assistant Professor (Internal Medicine), 1987</td>
<td>B.A.; M.D., University of Massachusetts, 1981</td>
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<td>McNeal, Vickie L., Assistant to Vice-President (Administrative Affairs), 1984</td>
<td>B.A., University of South Florida, 1978</td>
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<td>McRae, Sharmar P., Counselor/Advisor (Undergraduate Studies), 1983</td>
<td>B.S.; M.Ed., University of Louisville, 1974</td>
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<td>Mcwaters, Marcus M., Jr., Associate Professor (Mathematics), 1966</td>
<td>B.S.; Ph.D., University of Florida, 1966</td>
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<tr>
<td>Mead, C. Gail, Lecturer (Humanities), New College Sarasota Campus</td>
<td>1987 (Part time)</td>
</tr>
<tr>
<td>Meares, Edward, Visiting Assistant Professor (SUNCOAST GERONTOLOGY CENTER), 1987</td>
<td>B.S., M.D., Tulane University School of Medicine, 1946</td>
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<td>Mehrotra, Rajiv, Assistant Professor (Computer Science &amp; Engineering), 1986</td>
<td>B.S., M.S., M.A., Ph.D., Wayne State University, 1986</td>
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<tr>
<td>Melendi, John C., Associate Vice President (Medical Center-Administration), 1964</td>
<td>B.S., Florida Southern College, 1959</td>
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<td>Meilish, G. Hartley, Associate Professor (Ophthamology), 1979</td>
<td>B.A.; Ph.D., University of Virginia, 1965</td>
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<tr>
<td>Mendelblatt, Frank, Assistant Professor (Ophthalmology), 1979</td>
<td>M.D., University of Miami, Florida, 1960</td>
</tr>
<tr>
<td>Menendez, Louis E., Systems Programmer (RDC, University Computing Services), 1984</td>
<td>Menzel, Donald C., Professor-Program Director (Public Administration), 1983</td>
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<td>McDonough, Gary W., Associate Professor (Social Sciences), New College of USF, 1981 Sarasa Campus</td>
<td>B.A.; M.A., Pennsylvania State University, 1973</td>
</tr>
<tr>
<td>Mercado, Marilyn J., Assistant Department Head/Associate University Librarian (University Libraries), 1975</td>
<td>B.A.; M.L.S., University of Pittsburgh, 1973</td>
</tr>
<tr>
<td>Merica, John A., Associate Professor (Exceptional Child Education), 1968</td>
<td>B.A.; M.S., M.D., Syracuse University, 1971</td>
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<td>Merritt, Theate J., Visiting Assistant Professor (Nursing), 1987</td>
<td>B.S.N.; M.S.N., University of Alabama, 1979</td>
</tr>
<tr>
<td>Metzler, Elizabeth A., Assistant Professor-Program Director (English), 1982</td>
<td>1983</td>
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</tbody>
</table>
Mitani, Masamitsu, Assistant In Research (Pediatrics), 1986 St. Petersburg Campus
M.D., Ph.D., Kyushu University, Japan, 1985
Mitchel, Susan M., Director (Institutional Research), 1982
B.A.; M.P.A., Fairleigh Dickinson University, 1976
Mitchell, Mozella G., Assistant Professor (Religious Studies), 1981
A.B.; M.A.; M.D., Emory University, 1980
Mitchell, Vicki L., Coordinator, Advancement/Alumni Affairs (Development/Alumni Affairs), 1987
B.A., Florida State University, 1986
Mockler, Brian M., Associate Director for Administrative Services (Student Health Services, Student Affairs), 1985
Modrow, William G., Assistant Professor (Finance), 1963
B.A.; M.S., Texas A&M University, 1963
Moffitt, Karen A., Visiting Assistant Professor (Psychiatry), 1983
B.A.; M.A., Ph.D., University of South Florida, 1982
Mohney, David A., Assistant In (Educational Leadership and Higher Education), 1970
B.A., Anderson College, 1961
Monroe, Annetta Y., Instructor (Music Arts), 1973
B.M., Oberlin College Conservatory of Music, 1963
Montenegro, Raul, Visiting Assistant Professor (Obstetrics and Gynecology), 1982
M.D., San Carlos University Medical School, 1971
Moon, James E., Associate Professor (Accounting), 1983
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Moore, Donna S., Acting Coordinator, Student Affairs (Student Publications, Student Affairs), 1987
B.A., University of South Florida, 1980
Moore, Harvey A., Associate Professor-Program Director (Sociology), 1974
B.A.; M.S., Case Western Reserve University, 1972
Moore, Jack B., Professor-Chairperson (American Studies), 1962
B.A.; M.A., Ph.D., University of North Carolina, 1963
Moore, John D., Associate Professor (Humanities), New College of USF, 1980 Sarasota Campus
A.B.; A.M., Ph.D., Stanford University, 1969
Moore, Judy, Visiting Assistant In (College Administration, Education), 1985
Moore, Richard H., Assistant Professor (Criminal Justice), 1986
B.A.; Ph.D., University of Nebraska, Lincoln, 1972
Moore, Stephen B., Instructor (Information Systems & Decision Sciences), 1976
B.A., M.B.A., University of South Florida, 1976
Morales, Walter J., Visiting Assistant Professor (Obstetrics and Gynecology), 1986
B.S., M.S., Ph.D., University of Barcelona, 1981
Morehouse, Lawrence, Instructor (Political Science), 1985
B.A.; M.A., Cornell University, 1980
Moore, Jorge G., Assistant Professor (Public Health), 1987
B.A.; M.S.; M.S., Iowa State University, 1987
Morgan, Bettie R., Acting Coordinator, Continuing Education (Extended Studies), 1987
B.A.; M.A.; Ed.S., University of South Florida, 1986
Morgan, Denise L., Assistant In Research (Pediatrics), 1984
B.A.; M.S., University of South Florida, 1982
Morin, Andre S., Visiting Associate In (Pharmacology and Therapeutics), 1987
M.S., M.D., Paris IV University, 1974
Morley, Rosemary M., Assistant Dean-Instructor (Undergraduate Affairs, Natural Sciences), 1973
B.A.; M.S., Ed.S., University of Florida, 1979
Mormino, Gary R., Associate Professor (History), 1977
B.A.; M.A., Ph.D., University of North Carolina, 1977
Morrill, John B., Professor (Natural Sciences), New College of USF, 1975 Sarasota Campus
B.A.; M.S., Ph.D., Florida State University, 1958
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<th>Name</th>
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<td>Morris, Beulah M.</td>
<td>Assistant Department Head/Assistant University Librarian</td>
<td>University Libraries, 1975 Sarasota Campus</td>
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<td>Morris, Julie K.</td>
<td>Continuing Education Coordinator</td>
<td>New College of USF, 1984 Sarasota Campus (Part Time)</td>
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<td>Assistant in Research</td>
<td>Engineering, 1986</td>
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<td>Professor</td>
<td>University of South Florida, 1974</td>
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<td>Navarre, Javier</td>
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<td>University of South Florida, 1982</td>
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<td>Nagle, R. Kent</td>
<td>Associate Professor</td>
<td>University of North Carolina, 1957</td>
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<td>Nagera, Humberto</td>
<td>Professor-Director</td>
<td>Florida Institute of Oceanography, 1987</td>
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<td>SUNY College at Cortland, 1966</td>
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<td>Nazer, Linda A.</td>
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<td>Nachring, Douglas C.</td>
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<td>Naylor, William C.</td>
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<td>Nazarian, Stanley J.</td>
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<td>Nickerson, Deborah A.</td>
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Parrott, Mary E., Associate Professor (Accounting), 1979
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Paschal, Robert L., Head Athletic Coach (Intercollegiate Athletics), 1966
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Paterson, James F., Assistant in (Pathology), 1978
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Paul, John H., Associate Professor (Marine Science Program), 1983
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Paulson, Darryl G., Associate Professor (Political Science), 1974 St. Petersburg Campus
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Pavan, Mary H., Visiting Assistant Professor (Pediatrics), 1981 (Part Time)
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Pawlawski, Robert S., Professor (English), 1983
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Peattie, Victoria J., Assistant Professor (Visual Arts), 1986
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Rich, Thomas A., Professor-Chairperson (Gerontology), 1961
Richards, Ira S., Assistant Professor (Public Health), 1986
B.S.; M.S.; Ph.D., New York University, 1976
Richardson, Debra S., Head Athletic Coach (Intercollegiate Athletics), 1982
B.S.; M.A., East Tennessee State University, 1977
Richardson, Sylvia O., Visiting Professor (Pediatrics), 1983 (Part Time)
B.A.; M.A.; M.D., McGill University, 1948
Richardson, William R., Professor (Surgery), 1979
A.B.; M.D., Harvard Medical School, 1944
Richmond, John W., Assistant Professor (Music), 1987
B.A.; M.M., University of Missouri at Kansas City, 1980
Richmond, Katherine E., Visiting Instructor (Content Specializations, Education), 1987
B.A.; M.S.Ed., M.A., University of South Florida, 1983
Riddle, Ronald W., Associate Professor (Humanities), New College of USF, 1975 Sarasota Campus
A.B.; M.A.; Ph.D., University of Illinois, 1975
Riggan, John T., Associate Dean-Professor (Medicine), 1978
A.B.; M.D., Johns Hopkins University School of Medicine, 1951
Riggan, Ona Z., Professor (Nursing), 1977
B.S.; M.Ed.; Ed.D., Memphis State University, 1976
Riggs, Carl D., Professional-Director (Center for Math Excellence), 1971
B.S.; M.S., Ph.D., University of Michigan, 1953
Riggs, Carl D., Jr., Visiting Assistant Professor (Pediatrics), 1986
B.S.; M.D., University of South Florida, 1981
Rigos, Platon N., Associate Professor (Political Science), 1976
Robinson, Gerald G., Professor (Biology), 1977

Ross, Bernard E., Professor (Civil Engineering and Mechanics), 1965

B.S., M.S.E., M.S.A.E.: M.S.E.M., Ph.D., University of Florida, 1964, P.E.

Ross, Eric A., Assistant In (Public Health), 1987

B.A.; Sc.M., The Johns Hopkins University, 1984

Ross, Vivian M., Professor (Nursing), 1977

B.S.; M.S.N.; Ed.D., Nova University, 1975

Rowe, John W., Professor (Economics), 1979

B.S.; M.S.; Ph.D., University of Illinois, 1966

Rowlands, David T., Professor-Chairperson (Pathology), 1982

M.D., School of Medicine, University of Pennsylvania, 1955

Rus, Ernesto J., Assistant Professor (Cancer Education), 1987

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Rabin, Steven J., Professor (English), 1969

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Ruddle, Bobbi R., Assistant In (Public Health), 1986

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Rundus, Dewey J., Associate Professor (Computer Science and Engineering), 1972

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Runnels, Joan M., Coordinator (Medicine), 1967

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Russell, Timothy W., Assistant Director (Medical Clinics), 1987

B.S., State University of New York at Oneonta, 1981

Russell, Wallace A., Academic Administrator (Academic Affairs), 1982

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Rutenberg, Daniel, Professor (Humanities), 1964

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Sabu, Hussain I., Professor (Internal Medicine), 1975

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Sabin, Sabiba, Associate Professor (Pathology), 1979

M.D., Darbhanga Medical College, India, 1963

Sacco, William P., Associate Professor (Psychology), 1979

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Saccomanno, Deli D., Academic Administrator (Graphic Studio, Academic Affairs), 1985

B.A.; Albert College of Art, 1958

Sackett, William M., Graduate Research Professor (Marine Science), 1979

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Robinson, Jack H., Professor (Measurement and Research Education), 1963 St. Petersburg Campus

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Robinson, John O., Associate Professor (Music), 1977

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Rolf, Carol J., Assistant Vice President (Provost’s Office, Academic Affairs), 1974

B.A.; M.B.A., University of South Florida, 1982

Romeo, John T., Associate Professor (Biology), 1977

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Romig, Larry G., Director (Continuing Education), 1966

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Roo, Virginia S., Assistant In (Public Administration), 1983

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Shapiro, 

Shannon , 

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Sherman, Ronald A., Academic Administrator (Arts and Letters/Social Sciences), 1979
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Sherwood, Wende L., Specialist, Radio/TV (Broadcast Services), 1984
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Shintu, Alon, Professor (Anthropology), 1973

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Siebel, Jerry D., Associate Professor (Accounting), 1976
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Sikes, Michael E., Visiting Assistant in Education (Institute For Instructional Research and Practice), 1986
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Silbert, Edward M., Associate Dean (Social and Behavioral Sciences), Associate Professor (History), 1965
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Silverman, Stuart H., Professor (Psychological and Social Foundations Education), 1970
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Simmons, A. Keith, Director (Procurement), 1969
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Simmons, Joseph L., Professor (Biography), 1963
B.S.; M.S., Ph.D., University of New Hampshire, 1963

Sims, Cynthia J., Visiting Assistant Professor (Obstetrics and Gynecology), 1987
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Singh, Surendra P., Professor (Exceptional Child Education), 1967
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Sipiora, Phillip, Assistant Professor (English), 1985
B.A.; M.A.; Ph.D., University of Texas at Austin, 1985

Sisk, Dorothy D., Professor (Exceptional Child Education), 1966
### FACULTY & ADMINISTRATIVE STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Institution</th>
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<tbody>
<tr>
<td>Spindler, Charles J.</td>
<td>Visiting Assistant Professor (Public Administration)</td>
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<tr>
<td>Sproles, H. Allan</td>
<td>Associate Professor (Exceptional Child Education)</td>
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<tr>
<td>Spurin, Dale D.</td>
<td>Lecturer (Physics)</td>
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<td>Stafford, John W.</td>
<td>Associate Professor (Geography)</td>
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<tr>
<td>Stewart, Robert G.</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Stephens, Noel</td>
<td>Professor (Fine Arts Events)</td>
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<tr>
<td>Stenzler, Richard J.</td>
<td>Assistant Professor (Civil Engineering and Mechanics)</td>
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<tr>
<td>Stark, Cynthia</td>
<td>Assistant Director (Medical Health Administration)</td>
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<td>Strickler, Rainulf A.</td>
<td>Professor (Chemistry)</td>
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<td>Strayer, Richard J.</td>
<td>Visiting Assistant Professor (Internal Medicine)</td>
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<td>Strido, William R.</td>
<td>Associate Professor (Mathematics)</td>
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<td>Straford, John W.</td>
<td>Assistant Professor</td>
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<tr>
<td>Sterling, Hamilton W.</td>
<td>Lecture (Information Systems Decision Sciences)</td>
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<tr>
<td>Stockard, Janet J.</td>
<td>Visiting Assistant In (Pediatrics)</td>
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<td>Stockwell, Heather G.</td>
<td>Assistant Professor (Public Health)</td>
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<td>Stokes, Sandra J.</td>
<td>Visiting Assistant In Research (Adult and Vocational Education)</td>
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<td>Stokes, Trevor F.</td>
<td>Professor-Program Director (Child and Family Studies, FMHI)</td>
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<td>Stone, Douglas E.</td>
<td>Professor (Measurement and Research Education)</td>
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<td>Stanford, Rose Mary</td>
<td>Assistant Professor (Criminal Justice)</td>
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<td>Stokes, Christopher L.</td>
<td>Professor (Theatre)</td>
</tr>
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<td>Stocker, Richard J.</td>
<td>Visiting Assistant Professor (Music)</td>
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<td>Strata, William R.</td>
<td>Professor (Music Arts)</td>
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<td>Strasser, Robert J.</td>
<td>Visiting Assistant Professor (Business)</td>
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<td>Stirling, Hamilton W.</td>
<td>Lecture (Information Systems Decision Sciences)</td>
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<td>Strauss, Robert J.</td>
<td>Visiting Assistant Professor (Music)</td>
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<td>Stuken, Richard J.</td>
<td>Assistant Professor (Mathematics)</td>
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<td>Strub, Richard J.</td>
<td>Assistant Professor (Public Health)</td>
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<td>Sturr, Karl</td>
<td>Instructor (Mass Communications)</td>
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<td>Strom, Trevor F.</td>
<td>Professor-Program Director (Child and Family Studies, FMHI)</td>
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<td>Strunk, Richard J.</td>
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<td>Sturch, Robert J.</td>
<td>Visiting Assistant Professor (Engineering)</td>
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<td>Strutt, Richard J.</td>
<td>Assistant Professor (Public Health)</td>
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<td>Straus, Robert J.</td>
<td>Visiting Assistant Professor (Engineering)</td>
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<td>Sturtevant, Richard J.</td>
<td>Professor (Civil Engineering and Mechanics)</td>
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<td>Stuart, Robert J.</td>
<td>Visiting Assistant Professor (Engineering)</td>
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<td>Stute, Richard J.</td>
<td>Assistant Professor (Civil Engineering and Mechanics)</td>
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<td>Stewart, William E.</td>
<td>Professor (Medical Microbiology)</td>
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<tr>
<td>Sunol, Aydin K.</td>
<td>Associate Professor (Chemical Engineering)</td>
</tr>
<tr>
<td>Sundaram, Swaminatha</td>
<td>Professor-Chairperson (Physics)</td>
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<tr>
<td>Suresh, M. L.</td>
<td>Visiting Assistant Professor (Business)</td>
</tr>
<tr>
<td>Suria, Dawn M.</td>
<td>Research Assistant In (Diabetes Center)</td>
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<tr>
<td>Summers, Linda S.</td>
<td>Student Affairs Coordinator (Administrative Services)</td>
</tr>
<tr>
<td>Sumner, Robert J.</td>
<td>Professor (Music Arts)</td>
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<td>Sumner, Robert J.</td>
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<td>Sumner, Robert J.</td>
<td>Professor (Music Arts)</td>
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### Education

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<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Year</th>
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<tbody>
<tr>
<td>Spindler, Charles J.</td>
<td>Ph.D.</td>
<td>University of Georgia, Georgia</td>
<td>1973</td>
</tr>
<tr>
<td>Sproles, H. Allan</td>
<td>M.A.</td>
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<td>1972</td>
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<td>Spurin, Dale D.</td>
<td>B.S.; M.A.</td>
<td>University of South Florida</td>
<td>1972</td>
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<td>Stafford, John W.</td>
<td>B.S.; M.S.; M.A.</td>
<td>Michigan State University</td>
<td>1971</td>
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<td>Stewart, Robert G.</td>
<td>B.A.; M.A.</td>
<td>Miami University</td>
<td>1973</td>
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<td>Stephens, Noel</td>
<td>B.S.; M.A.</td>
<td>University of Texas</td>
<td>1970</td>
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<td>Stenzler, Richard J.</td>
<td>B.S.; M.A.</td>
<td>University of Texas</td>
<td>1953</td>
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<td>Stark, Cynthia</td>
<td>B.A.; M.A.</td>
<td>University of Florida</td>
<td>1975</td>
</tr>
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<td>Strickler, Rainulf A.</td>
<td>B.S.; M.D.</td>
<td>State University of New York</td>
<td>1978</td>
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<tr>
<td>Strayer, Richard J.</td>
<td>B.A.; M.A.</td>
<td>University of Michigan</td>
<td>1965</td>
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<tr>
<td>Stricker, Charles A.</td>
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<td>1972</td>
</tr>
<tr>
<td>Straford, John W.</td>
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<td>Florida State University</td>
<td>1984</td>
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<td>Sterling, Hamilton W.</td>
<td>B.A.; M.A.</td>
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<td>1969</td>
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<tr>
<td>Strauss, Robert J.</td>
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<tr>
<td>Sturch, Robert J.</td>
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<td>1953</td>
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<td>Stuart, Robert J.</td>
<td>B.A.; M.A.</td>
<td>University of Wisconsin</td>
<td>1976</td>
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<tr>
<td>Sunol, Aydin K.</td>
<td>B.S.; M.A.</td>
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<td>1960</td>
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<tr>
<td>Sundaram, Swaminatha</td>
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<td>University of South Florida</td>
<td>1982</td>
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<tr>
<td>Name</td>
<td>Title/Position</td>
<td>Institution</td>
<td>Date</td>
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<tr>
<td>Weigner, Jon E.</td>
<td>Associate Professor (Chemistry)</td>
<td>B.S.; Ph.D., California Institute of Technology</td>
<td>1968</td>
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<tr>
<td>Weisberg, Robert H.</td>
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<tr>
<td>Welker, Robert F.</td>
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<td>1974</td>
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<tr>
<td>Wells, Daniel A.</td>
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<td>Welzer, Clyde W.</td>
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<td>Wenzinger, George R.</td>
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<td>West, Helen C.</td>
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<td>West, Robert J.</td>
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<td>Westcott, Mark</td>
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<td>Wheeler, Jan</td>
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<td>Wheeler, Raymond H.</td>
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<td>Whidden, Christina</td>
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<td>White, Robert D.</td>
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<td>1959</td>
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<td>White, James A.</td>
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<td>White, Michael J.</td>
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<td>White, Virginia A.</td>
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<td>Whiteford, Linda M.</td>
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<tr>
<td>Whitaker, Gerald F.</td>
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<td>1978</td>
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<tr>
<td>Widener, Kenneth F.</td>
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<td>1970</td>
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<tr>
<td>Widen, Raymond H.</td>
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<td>1981</td>
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<td>Wilder, Delores J.</td>
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<td>1986</td>
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<td>Walpert, Daniel R.</td>
<td>Vice President (Student Affairs)</td>
<td>1969</td>
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<td>Walden, Eric L.</td>
<td>University Comptroller (Finance and Accounting)</td>
<td>B.S., J.D., New York University</td>
<td>1965</td>
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<tr>
<td>Wallach, Paul M.</td>
<td>Assistant Professor (Internal Medicine)</td>
<td>A.B.; M.D., University of South Florida, 1984</td>
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<td>Wallach, Stanley</td>
<td>Professor (Internal Medicine)</td>
<td>A.B.; M.D., State University of New York, Down State Medical Center, 1953</td>
<td></td>
</tr>
<tr>
<td>Walling, Arthur K.</td>
<td>Associate Professor (Orthopaedic Surgery)</td>
<td>B.S.; M.D., Creighton University</td>
<td>1982</td>
</tr>
<tr>
<td>Walsh, John J.</td>
<td>Graduate Research Professor (Marine Science Program)</td>
<td>A.B.; M.S., Ph.D., University of Miami, 1969</td>
<td></td>
</tr>
<tr>
<td>Walsh, Ruth M.</td>
<td>Associate Professor (Management)</td>
<td>A.B.; M.A.; Ph.D., University of South Florida</td>
<td>1976</td>
</tr>
<tr>
<td>Walther, John D.</td>
<td>Assistant Professor (English)</td>
<td>A.B.; M.A., Ph.D., Vanderbilt University</td>
<td>1965</td>
</tr>
<tr>
<td>Waltz, Alfred J.</td>
<td>Assistant Professor (Information Systems-Decision Sciences)</td>
<td>B.S.; M.S., Georgia Institute of Technology</td>
<td>1979</td>
</tr>
<tr>
<td>Waltzer, Arthur K.</td>
<td>Assistant Professor (Surgery)</td>
<td>B.A.; M.D., Vanderbilt University School of Medicine</td>
<td>1961</td>
</tr>
<tr>
<td>Wangerstein, Stephen L.</td>
<td>Visiting Professor (Surgery)</td>
<td>B.A.; B.S.; M.D., Harvard Medical School</td>
<td>1958</td>
</tr>
<tr>
<td>Ward, John C.</td>
<td>Assistant Professor-Associate Chairperson (Community Mental Health, FMHI)</td>
<td>B.A.; A.M.A., M.P.H., D.P.H., University of California, Berkeley</td>
<td>1978</td>
</tr>
<tr>
<td>Ward, William B.</td>
<td>Associate Professor (Public Health)</td>
<td>B.A.; A.M.A., M.P.H., D.P.H., University of California, Berkeley</td>
<td>1978</td>
</tr>
<tr>
<td>Warfield, Nancy R.</td>
<td>Associate Professor (Music Arts)</td>
<td>B.M.M., Temple University</td>
<td>1984</td>
</tr>
<tr>
<td>Warren, Gretchen W.</td>
<td>Associate Professor (Dance)</td>
<td>A.B., M.A., Ph.D., University of North Carolina</td>
<td>1968</td>
</tr>
<tr>
<td>Wasala, Carol F.</td>
<td>Visiting Instructor (Economics)</td>
<td>B.A.; M.S., University of South Florida</td>
<td>1984</td>
</tr>
<tr>
<td>Watanabe, Takashi</td>
<td>Visiting Research Associate (Pharmacology and Therapeutics)</td>
<td>M.D., Nagasari University School of Medicine</td>
<td>1986</td>
</tr>
<tr>
<td>Waterman, Patricia P.</td>
<td>Assistant Professor (Anthropology)</td>
<td>B.S.; M.A., Ph.D., University of California, Berkeley</td>
<td>1969</td>
</tr>
<tr>
<td>Watson, Sally M.</td>
<td>Assistant In Research (Pediatrics)</td>
<td>B.S.; M.D., University of South Florida, St. Petersburg Campus</td>
<td>1982</td>
</tr>
<tr>
<td>Weatherford, Roy C.</td>
<td>Professor (Philosophy)</td>
<td>B.A.; M.A., Ph.D., Harvard University</td>
<td>1972</td>
</tr>
<tr>
<td>Weaver, Lee A.</td>
<td>Professor (Industrial and Management Systems Engineering)</td>
<td>B.A.; M.S., Ph.D., University of Florida</td>
<td>1972</td>
</tr>
<tr>
<td>Webb, William H.</td>
<td>Associate In Research (Economic and Research Center)</td>
<td>B.S., J.D., University of South Florida</td>
<td>1983</td>
</tr>
<tr>
<td>Weber, Lee A.</td>
<td>Associate Professor (Biology)</td>
<td>B.A.; M.S., Ph.D., University of Connecticut</td>
<td>1975</td>
</tr>
<tr>
<td>Weibley, Richard E.</td>
<td>Assistant Professor (Pediatrics)</td>
<td>B.S.; M.D., University of South Florida</td>
<td>1977</td>
</tr>
<tr>
<td>Weigel, Dennis E.</td>
<td>Academic Administrator (Ophthalmology)</td>
<td>B.A.; M.A., Ph.D., University of South Florida, St. Petersburg Campus</td>
<td>1981</td>
</tr>
<tr>
<td>Weinberg, Herman</td>
<td>Assistant Professor (Professional Physical Education, Education)</td>
<td>B.S.; A.M.A., Ed.D., Temple University</td>
<td>1969</td>
</tr>
<tr>
<td>Weinberg, Richard</td>
<td>Assistant Professor (Training and Consultation Services, FMHI)</td>
<td>B.A.; A.M.A., Ph.D., University of South Florida</td>
<td>1983</td>
</tr>
</tbody>
</table>

**FACULTY & ADMINISTRATIVE STAFF**
Wiles, Jon W., Professor (Educational Leadership Education), 1981 St. Petersburg Campus
B.S.; M.Ed., Ed.D., University of Florida, 1972

Wiley, Paris H., Associate Professor (Electrical Engineering), 1982
B.S.; M.S.E.E., Ph.D.E.E., Virginia Polytechnic Institute and State University, 1973

Wiley, Roslyn S., Program Director (Sponsored Research), 1977, St. Petersburg Campus

Wilk, Roger E., Professor (Educational Measurement and Research), 1972
B.A.; M.A., Ph.D., University of Minnesota, 1957

Wilk, Ruth J., Associate Professor (Social Work), 1981
B.A., M.S.W.; D.S.W., University of California, Berkeley, 1981

Wilkinson, Stuart, Assistant Professor (Mechanical Engineering), 1984
B.Sc.; M.Sc., Ph.D., University of Southampton, 1984

Willette, Melanie N., Visiting Instructor (Content Specializations, Education), 1987
B.A.; M.Ed., University of South Florida, 1986

Williams, Carol A., Associate Professor (Mathematics), 1968
B.A.; Ph.D., Yale University, 1967

Williams, Charles C., Assistant Professor (Internal Medicine), 1980
B.S.; M.D., University of Pittsburgh, 1973

Williams, David K., Associate Professor-Acting Chairperson (Theatre Arts), 1975
B.A.; M.F.A., Florida State University, 1981

Williams, Ellouise E., Acting Coordinator, Public Service Delivery Program, (Training and Consultation Service, FMHI), 1986
M.S.W.; M.B.A., George Williams College, 1983

Williams, J. Kelly, Assistant Professor (Obstetrics and Gynecology), 1982
B.S.; M.D., Wayne State University School of Medicine, 1972

Williams, James R., Professor (Anthropology), 1969
B.S.; M.A., Ph.D., Missouri University, 1971

Williams, Joseph F., Associate Professor (Pharmacology-Therapeutics), 1972
B.A.; Ph.D., University of Utah, 1970

Williams, Kenneth D., Academic Administrator (Engineering), 1986
B.M.; M.M., University of South Florida, 1985

Williams, Larry R., Assistant Professor (Surgery), 1985
B.A., M.S., M.D., University of Illinois, 1978

Williams, Mark, Visiting Assistant Professor (Obstetrics and Gynecology), 1987
B.A.; M.D., University of Minnesota School of Medicine, 1981

Williams, Marvin T., Associate Professor (Biochemistry), 1978
B.S.; M.Ed.; M.S.; Ph.D., Cornell University, 1976

Williams, Paul R., Visiting Associate Professor (Public Sector Medicine), 1979 (Part Time)
B.S.; M.D., Washington University School of Medicine, 1969

Williams, Walter E., Assistant Professor (Mathematics), 1961
B.A.; M.A.; Ed.D., Nova University, 1979

Wilmoth, Frank R., Associate Professor (Physiology), 1979
B.S.; Ph.D., University of Missouri, 1979

Wilson, Laura A., Assistant Director, Institutional Research (Resources and Policy Analysis), 1980
B.A., M.A., University of South Florida, 1983

Wilson, Marilyn K., Visiting Instructor (Psychiatry), 1970 (Part time)
B.A.; M.S., Wayne State University, 1968

Wilson, Phillip D., Associate Professor (Public Health), 1987
B.A.; M.S.; Ph.D., Johns Hopkins University, 1968

Wilson, Raymond R., Assistant Professor (Marine Science Program), 1987 St. Petersburg Campus
B.S.; Ph.D., University of California at San Diego, 1984

Wilson, Robert M., Associate Professor (Economics), 1978
B.A.; M.A., Ph.D., Northwestern University, 1977

Wilson, Thomas C., Associate Professor (Library, Media and Information Studies Education), and Y.O.U. (Educational Resources), 1968
B.S.; M.A., Ed.D., Wayne State University, 1970

Winnem, Lynne A., Assistant Professor (Dance), 1983

Winnert, Robert J., Professor (Industrial and Management Systems Engineering), 1964
B.S.M.E., M.S.I.E., Ph.D., Purdue University, 1957, P.E.

Wingard, Richard M., Sr., Area Administrator (University Food Services, Student Affairs), 1982
B.S., Virginia Polytechnic Institute, 1953

Wiranowska-Stewart, Marzena, Assistant Professor (Neurology), 1986
B.S.; M.S.; Ph.D., Polish Academy of Sciences, 1980

Wiredu, Kwasi, Professor (Philosophy), 1987
B.A.; B.Phil., University of Oxford, 1960

Wiseman, Monica M., Associate University Librarian (University Libraries), 1983
B.A.; M.L.S., University of Pittsburgh, 1976

Wiswell, Candace H., Assistant Professor (Sociology), 1987
B.A., M.A., Ph.D., University of Texas at Austin, 1987

Wolfe, Alvin W., Professor-Coordinator (Anthropology), 1974
A.B.; Ph.D., Northwestern University, 1977

Wolfson, Jay, Associate Professor (Public Health), 1984
B.A.; M.A.; M.P.H.; D.P.H., University of Texas, School of Public Health, 1981

Woodard, Laurie J., Visiting Assistant Professor (Family Medicine), 1986
A.B.; M.D., University of Vermont, 1979

Woodbury, Arthur N., Professor (Music Arts), 1972
B.S.; M.M., University of Idaho, 1935

Woodruff, William S., Assistant Professor (Music), 1985
M.M.E.; M.M., Northwestern University, 1963

Woolfenden, Glen E., Professor (Biology), 1960
B.S.; M.A., Ph.D., University of Florida, 1960

Worrell, Jay H., Professor (Chemistry), 1967
B.S.; M.S.; Ph.D., Ohio State University, 1966

Wright, Allen F., Instructor (Accounting), 1984
B.A.; B.A., M.A., University of South Florida, 1984, C.P.A.

Wright, D.R. Edward, Associate Professor (Visual Arts), 1980
B.A.; M.F.A., Ph.D., Princeton University, 1976

Wright, Tennyson J., Associate Professor (Family Medicine), 1973
B.S.; M.E., Ph.D., University of Georgia, 1976

Wuclik, Theodore F., Associate Professor (Visual Arts), 1970
Certificte, Art School, Society of Arts and Crafts, Detroit, 1962

Wunderlin, Richard P., Associate Professor (Biology), Director (Herbarium), 1973
B.S.; M.S.; Ph.D., St. Louis University, 1973

Wyly, R. Donald, Jr., Associate Professor (English), 1965
B.A.; M.A.; Ph.D., Ohio State University, 1964

Wynne, Lewis N., Visiting Assistant Professor (History), 1987
B.S., M.A., Ph.D., University of Georgia, 1980

Yanez, Robert A., Instructor (International Language Institute), 1984

Yangco, Bienvenido G., Associate Professor (Internal Medicine), 1979
B.S.; M.M.A.; M.P.H.; M.D., Far Eastern University, 1970

Yates, Margaret C., Associate Director (University Personnel Services), 1985
B.S.; M.B.A., University of West Florida, 1984

Yegidis, Bonnie L., Associate Professor (Social Work), 1977
B.A.; M.S.W., University of South Florida, 1983

Yelton, Susan W., Visiting Assistant Professor-Program Director (Epidemiology and Policy Analysis, FMHI), 1987
B.A.; M.S.W., Florida State University, 1972

Ying, Shuh-Jing, Professor (Mechanical Engineering), 1978
B.S.; M.S.; Ph.D., Harvard University, 1965, P.E.
Young, Jane F., Associate Professor (Professional Physical Education, Education), 1970
B.Sc. Ed., M.A.; Ph.D., Florida State University, 1985
Young, Joanne E., Associate Professor (Elective Physical Education, Education), 1961
B.S.; M.Ed., University of North Carolina, 1955
Young, John E., Director of Radio/TV Stations (Educational Resources), 1975
B.A.; M.A., Illinois State University, 1967
Young, Michele L., Program Director (Engineering), 1982
B.A., University of South Florida, 1981
Young, Richard W., Research Assistant In (Marine Science Program), 1985 St. Petersburg Campus
B.Sc., M.S., University of South Florida, 1984
Yurecka, Philip J., Academic Administrator (Development Office), 1984
B.S., University of Rochester, 1965
Zachariah, Sally B., Assistant Professor (Neurology), 1986
M.B.B.S., Kottayam Medical College, India 1975
Zak, John P., Visiting Assistant Professor (Public Sector Medicine and Cancer Education), 1985
B.S.; M.D., Universidad Nordestana, San Francisco De Macoris, 1981

Zbar, Flora J., Assistant Professor (English), 1965
B.A.; M.A., Florida State University, 1962
Zerla, Fredric J., Associate Professor (Mathematics), 1963
B.A.; M.S., Ph.D., Florida State University, 1967
Ziemer, David C., Assistant In Research (Diabetes Center), 1986
B.S.; M.D., Emory University School of Medicine, 1980
Zoble, Robert G., Assistant Professor (Internal Medicine), 1983
B.S., M.D., Ph.D., University of Miami, Florida, 1978
Zuk, Gary, Assistant Professor (Political Science), 1987
B.A.; M.S., Ph.D., Florida State University, 1983
Zureich, Raymond, Director (Internal Auditing), 1981
B.S.; M.B.A., University of South Florida, 1972, C.P.A.
Zusman, Jack, Director-Professor (Florida Mental Health Institute), 1982
A.B.; M.A.; M.D.; M.P.H., Columbia University School of Public Health and Administrative Medicine, 1966
Zwolinska, Joanna B., Visiting Assistant In (Internal Medicine), 1982
M.A., University of Warsaw, 1978
Zylstra, Sape A., Professor (Humanities), 1969
B.A.; B.D.; Ph.D., Emory University, 1969
Cleaver, Frank, Professor Emeritus (English), 1960-1985
*Ceconi, Isabelle, Lecturer (English), 1960-1976
*Beauchamp, George E., Associate Professor (English), 1960-1976
*Battle, Jean A., Professor (English), 1960-1983
*Ashford, Theodore (Deceased), Professor Emeritus (English), 1960-1983
*Agens, Frederic (Deceased), Lecturer (Physical Sciences), 1960-1971
*Agens, Jeanette F., Assistant Professor (Engineering), 1963-1972
Allen, Edmund E., Associate Professor (Interdisciplinary Social Science), 1964-1981
*Allen, John S. (Deceased), President Emeritus, 1957-1970
Anderson, Celia L., Assistant Professor (Education), 1967-1976
Anderson, Donald J., Continuing Education Center Administrator (Regional Campus Affairs), 1967-1983 Ft. Myers Campus
Anderson, Everett S., Professor (Music), 1963-1982
Anderson, Louis V., Associate Professor (Psychological and Social Foundations Education), 1963-1980
*Ashford, Theodore (Deceased), Professor Emeritus (Chemistry), Dean Emeritus (Natural Sciences), 1960-1981
Auleta, Michael S., Professor (Education), 1967-1973
Austin, Martha L., Professor Emeritus (Reading Education), 1963-1980
Bailey, Oscar W., Professor (Visual Arts), 1969-1985
Barr, Carolyn L., Student Affairs Coordinator (Physical Education, Student Affairs), 1970-1986
*Battle, Jean A., Professor (Psychological and Social Foundations Education), 1959-1984
Beasley, W. Wayne, Professor (Educational Leadership Education), 1969-1985
*Beauchamp, George E., Associate Professor (English), 1960-1971
Bell, John O., Lecturer (Interdisciplinary Social Science), 1969-1982
Bieling, Lillian C., Director (Space Utilization & Analysis), 1964-1987
Billingsley, Edward B., Associate Professor (History), 1967-1977
Blomquist, Allen J., Associate Professor (Psychology), 1972-1985 St. Petersburg Campus
Borden, Arthur R., Professor Emeritus (English Literature), New College of USF, 1975-1982 Sarasota Campus
Boulware, Joe W., Lecturer (Geology), 1961-1973
*Bradley, Robert V., Associate University Librarian (Libraries), 1959-1985
Brady, Henry G., Associate Professor (Adult and Vocational Education), 1969-1984
Breiter, Bernard, Assistant Director-Program Director (Family Medicine), 1977-1985
Briggs, John C., Professor (Marine Science), 1964-1985
Britton, Jack R., Professor Emeritus (Mathematics), 1967-1976
Brusca, Donald D., University Physicist (Student Health Center), 1965-1973
Bryant, Fred D., Director (Health Sciences Library), 1971-1984
Bryant, Hayden C., Jr., Associate Professor (Art & Music Education), 1967-1985
Caldwell, Edward, Associate Professor (Measurement and Research Education), 1965-1985
Carr, Robert S., Visiting Lecturer (Mass Communications), 1968-1974
Catlin, Robert A., Associate Professor (Political Science), 1977-1983
*Ceconi, Isabelle F., Lecturer (English), 1960-1984
Chambers, James A., Professor (Childhood and Language Arts Education), 1964-1985
Chen, Chung Huan, Professor Emeritus (Philosophy), 1965-1975
*Clark, Clarence C. (Deceased), Professor Emeritus (Physical Science), 1960-1969
Cleary, Florence D. (Deceased), Lecturer (Education), 1964-1969
*Cleary, Frank L. (Deceased), Professor (Mathematics), 1960-1985
Cline, Ralph, Associate Professor (Exceptional Child Education), 1971-1984 St. Petersburg Campus
Close, James A., Professor Emeritus (Finance), 1971-1975
Clough, W. Lyndon, Professor Emeritus (Humanities), New College of USF, 1975-1980 Sarasota Campus
Cook, Doris, Department Head and University Librarian (Libraries), 1968-1979 St. Petersburg Campus
*Cooper, Russell M. (Deceased), Dean Emeritus (Liberal Arts), Professor (Interdisciplinary Social Science), 1959-1975
Covington, Harrison W., Dean Emeritus-Professor Emeritus (Fine Arts), 1961-1982
*Cowell, George J., Professor Emeritus (Engineering), 1960-1973
Craig, Calvert J., Associate Professor (Educational Leadership Education), 1967-1981
Crickenberger, Margaret E., Professor Emeritus (Physical Education, Education), 1961-1979
Dabney, William P., Professor (Adult and Vocational Education), 1964-1985
Daugherty, George G., Lecturer (Mass Communications), 1972-1980
Davey, Kenneth W., Assistant Professor (Economics), 1966-1984
*Davis, Wesley F., Professor Emeritus (English), 1960-1983
Dean, Harris W., Vice President Emeritus (Academic Affairs), 1961-1971
*Deyo, William A., Jr., Associate Professor (Accounting), 1960-1973
Dickey, Annmary, Associate Professor (Music Arts), 1969-1983
Donaldson, Merle R., Professor (Electrical Engineering), 1964-1985
Doty, Louis F., Professor (Industrial and Management Systems Engineering), 1970-1983
Downey, Paul M., Professor Emeritus (Industrial Systems Engineering), 1966-1977
Dubois, Leadore D., Associate Professor (Childhood and Language Arts Education), 1964-1980
*Dudley, Frank M., Associate Professor (Chemistry), 1960-1981
Dunn, Edgar H., Lecturer (Accounting), 1970-1981 St. Petersburg Campus
Durso, Mary W., Professor (Adult and Vocational Education), 1969-1987
Dwyer, Roy E., Lecturer (Childhood and Language Arts Education), 1967-1978
Ervin, Donald W. (Deceased), Instructor-Assistant Director (Sponsored Research), 1973-1983
Fernelius, W. Conrad, Distinguished Professor Emeritus (Chemistry), 1970-1975
Ferris, Mary W., Associate University Librarian (Libraries), 1971-1981 St. Petersburg Campus
Forman, Guy, Professor Emeritus (Physics), 1962-1972
Foutz, Lucille C. (Deceased), Lecturer (Counseling Center), 1963-1973
*French, Sidney J. (Deceased), Dean Emeritus (Academic Affairs) and Professor (Education), 1958-1969
*Fuson, Robert H., Professor Emeritus (Geography), 1960-1986
Futhey, Dale E., Lecturer (Marketing), 1969-1984
Gessman, Albert M., Professor (Religious Studies), 1961-1985
Ghiotto, James L., Assistant Professor (Mass Communications), 1981-1985
Gilmore, Alden S., Associate Professor (Geography), 1961-1985
Glenisson, Emilie G. (Deceased), Associate Professor Emeritus (Foreign Languages), 1967-1977
Golding, Louis A., Professor (Music Arts), 1962-1984
Goldsmith, George H., Director (Financial Aid, Student Affairs), 1969-1982
Gomez, Osborne L., Director (Extension Library), 1965-1986 St. Petersburg Campus
Gonzalez, Juan O. (Deceased), Professor (Mechanical Engineering), 1965-1983
Gowen, Howard B., Associate Professor (Humanities), 1963-1984
Grissom, Walter E., Professor (Mass Communications), 1967-1983
*Hartley, Jacquetta W., Instructor (English), 1960-1972
Haven, Julia M. (Deceased), Professor Emeritus (Education), 1969-1974
Hearn, Thomas K., Assistant Professor (Education), 1967-1977
*Hertz, Gilman W., Professor (Elective Physical Education), 1963-1985
Hickman, William, Assistant Professor (English), 1963-1969
Hindle, Will M. (Deceased), Professor (Visual Arts), 1972-1985
*Hirshberg, Edgar W., Professor (English), 1960-1985
*Luckenbach, Leon R. (Deceased), Associate Professor (Political Science), 1968-1985

Humm, Harold J., Professor Emeritus (Marine Science), 1966-1982

Hunnicutt, Clarence W. (Deceased), Professor (Education), 1967-1977

Jaeschke, Donald J., Associate Professor (Adult and Vocational Education), 1963-1979

James, Rosella, Assistant Professor (Economics), 1967-1979

Johnson, Gordon A., Professor (Music Arts), 1963-1981

Johnson, G. Orville, Professor Emeritus (Exceptional Child Education), 1972-1984

Jurgensen, Louis C., Professor (Accounting), 1966-1981

Kaplan, Max, Professor (Sociology), 1967-1978

Kashdin, Gladys S., Professor Emeritus (Humanities), 1965-1987

Kauder, Emil (Deceased), Distinguished Lecturer Emeritus (Economics), 1968-1973

Keller, Walter D., Professor (Geology), 1970-1973

*Kendall, Harry W., Professor (Physics), 1960-1984

Kenerson, David R., Associate Professor (Management), 1966-1987 St. Petersburg Campus

*Kiefer, H. Christian, Professor (English), 1960-1985

Kinde, Stewart W., Professor-Chairperson (Communication), 1965-1987

King, Arline T., (Deceased), University Librarian (Libraries), 1964-1984

*Lakela, Olga (Deceased), Research Associate (Botany), 1960-1970

Levitt, Robert, Director (Admissions, Student Affairs), 1968-1981

Linton, Joe R., Associate Professor Emeritus (Biology), 1963-1982

Low, Edmon (Deceased), Librarian Emeritus (Sarasota Library), 1975-1980

*Luckenbach, Leon R. (Deceased), Associate Professor (Mathematics), 1960-1974

*McChung, Gene, Professor (Accounting), 1960-1983 St. Petersburg Campus

McClung, Novel, Professor (Biology), 1966-1985

Mackay, E. Maxine, Professor Emeritus (Humanities), 1961-1980

Mankor, Charles C., Jr. (Deceased), Professor (Psychological and Social Foundations), 1966-1984

Marin, Gerald S., Instructor (Student Personnel Office, Education), 1969-1985

Maybury, P. Calvin, Professor (Chemistry), 1961-1987

Merriam, Harland C., Professor (Childhood and Language Arts Education), 1969-1981

Merriam, Kemper W., Professor (Accounting), 1967-1982

*Meyer, Herbert N., Professor (Industrial/Organizational Psychology), 1973-1985

Meyerrecks, Andrew J., Professor (Biology), 1961-1985

*Miller, George H., Program Director (Southeast Center Cooperative Education Grant), 1960-1980

Mitchell, William G., Director (Instructional Services), 1974-1986

*Monley, Laurence E. (Deceased), Professor (Mathematics Education), 1960-1984

Murphy, Robert J., Associate Professor (Economics), 1966-1984

*Nelson, Gid E., Jr., Professor Emeritus (Biology), 1960-1981

Neuberger, Hans H., Professor Emeritus (Geography), 1971-1974

Noer, Rudolf J., Professor Emeritus (Surgery), 1970-1977

Obermeyer, Charles (Deceased), Lecturer (American Idea), 1964-1970

Ochshorn, Myron G., Associate Professor (English), 1963-1985

O’Donnell, Maurice E., Associate Professor (Public Administration), 1966-1984

*T*O’Hare, Leo H., Lecturer (English), 1960-1969

Oleson, Norman L., Professor (Physics), 1969-1985

Ondono, Andres J., University Librarian (Libraries), 1975-1985

Palm, John W., Assistant Professor Emeritus (Interdisciplinary Social Science), 1970-1981

Palmer, Robert E., Sr., Associate Professor (Adult and Vocational Education), 1970-1985

Parker, John W., Jr. (Deceased), Professor (English), 1963-1985

*Parrish, James A., Jr., Professor Emeritus (English), 1960-1985

Pearcey, Walter E., Jr., Instructor (Childhood and Language Arts Education), 1970-1985

Pierce, Carmel J., Counselor/Advisor (Student Personnel Advising, Education), St. Petersburg Campus, 1970-1985

Pope, James S., Lecturer (Education), 1969-1976

Prather, Sam, Associate Professor (Elective Physical Education), 1962-1983

*Preodor, Edward, Professor (Music Arts), 1960-1985

Prescott, Gerald R., Associate Professor (Music Education), 1967-1972

Pulliam, David M., Associate Director (University Center, Student Affairs), 1966-1986

Rackow, Jeanne, Associate Professor (Nursing), 1973-1987

*Ray, James D., Jr., Dean-Professor (Natural Sciences), 1959-1983

*Richey, Joyce A., Systems Coordinator (University Computing Services), 1960-1986

Ricker, Lawrence H., Professor (Communicology), 1966-1987

Rimby, Donald H., Professor (Energy Conversion Engineering), 1967-1980

Roberson, Bruce W., Lecturer (Accounting), 1966-1976 St. Petersburg Campus

Roberts, Loren G., Coordinator (Student Personnel, Education), 1968-1983

Robertson, Henry M., Professor (American Studies), 1961-1985

Robertson, Phyllis M., Counselor/Advisor (Education), 1968-1985

*Rose, Donald R., Professor (Mathematics), 1960-1983

Rothwell, Stuart C., Professor Emeritus (Geography), 1965-1979

Sanderson, Arthur M., Professor Emeritus (Mass Communications), 1965-1981

*Saret, Alma J. (Deceased), Professor Emeritus (Speech), 1960-1970

Ssepunik, Mary A., Assistant Director (University Libraries), 1967-1988

Sexton, Irene, Associate Professor (Childhood and Language Arts Education), 1969-1979

Shackman, L. Lee, Professor Emeritus (Humanities), 1964-1974

*Shannon, Robert L., Professor (Childhood and Language Arts Education), 1960-1981

Sherman, James J., Professor (Management), 1967-1984

Sherman, Roger T., Professor (Surgery), 1972-1982

Silver, James W., Professor Emeritus (History), 1969-1979

Singleton, Mildred B., Student Affairs Coordinator (University Center, Student Affairs), 1961-1987

Sleep, David C., Professor (Marketing), 1964-1985

Smith, B. Othanel, Professor Emeritus (Education), 1969-1975

Smith, Charles T., Associate Professor (Finance), 1968-1986

Smith, Don L., Dean Emeritus (Medicine)-Professor Emeritus (Pharmacology and Comprehensive Medicine), 1969-1985

Smith, Norman V., Lecturer (Engineering), 1968-1975

Smiles, Melpomene, Associate Professor (Exceptional Child Education), 1965-1983

Sodeman, William A., Jr., Associate Dean-Professor (Comprehensive Medicine), 1975-1987

Sokolsky, Anatole, Associate Professor (Modern Languages), 1961-1972

Stallnaker, Leo J., Associate Professor/Director (Student Publications, Student Affairs), 1969-1986

*Stanley, Edgar E., Jr., Professor (Elective American Studies), 1960-1977

Steinke, George C., Associate Professor (Economics), 1971-1983

Stone, Leo D., Lecturer (Finance), 1974-1981 St. Petersburg Campus

Stubblebine, Albert N., Jr., Assistant Professor (Engineering), Coordinator (Cooperative Education Program), 1964-1968

Sullivan, Mary S., University Librarian (Educational Resources), 1968-1979

Taylor, Spafford C., Associate Professor (Elective Physical Education, Education), 1963-1984

Thompson, Sherman, Associate Professor (Adult and Vocational Education), 1966-1983

Tipton, Henry C., Assistant Professor (Biology), 1965-1980

Toothman, Rex C., Associate Professor (Adult and Vocational Education), 1970-1980
### Retired Faculty & Administrative Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbeville, Joseph E., Jr.</td>
<td>Lecturer (Physics)</td>
<td>1964-1984</td>
</tr>
<tr>
<td>Twigg, John F. (Deceased)</td>
<td>Associate Professor (Engineering)</td>
<td>1964-1984</td>
</tr>
<tr>
<td>Unruh, Anita</td>
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<td>1968-1985</td>
</tr>
<tr>
<td>Urbancik, Raymond A. (Deceased)</td>
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<td>1961-1981</td>
</tr>
<tr>
<td>Valentine, Virginia W. (Lecturer (English))</td>
<td>1960-1984</td>
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<tr>
<td>Ward, Annie</td>
<td>Professor (Measurement and Research Education)</td>
<td>1972-1980</td>
</tr>
<tr>
<td>Warner, Robert A. (Professor Emeritus (Interdisciplinary Social Science))</td>
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</tr>
<tr>
<td>Weingartner, Charles (Professor Emeritus (Psychological and Social Foundations Education))</td>
<td>1970-1981</td>
<td></td>
</tr>
<tr>
<td>West, William W. (Professor (Content Specializations, Education))</td>
<td>1970-1987</td>
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<tr>
<td>Whitney, Vernon W. (Associate Professor (Social Science and Letters Education))</td>
<td>1966-1982</td>
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<tr>
<td>Wiley, Russell W. (Professor-Coordinator (Education))</td>
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<tr>
<td>Williams, Juanita H. (Professor (Interdisciplinary Social Science))</td>
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</tr>
<tr>
<td>*Winch, Annabelle, Assistant to Vice President (Student Health Services)</td>
<td>1960-1984</td>
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<tr>
<td>*Winthrop, Henry (Deceased), Professor Emeritus (Interdisciplinary Social Science)</td>
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<td></td>
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<tr>
<td>Wrong, Charles J. (Lecturer (History))</td>
<td>1970-1986</td>
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<tr>
<td>Wunderlich, Herbert J., Vice President For Student Affairs Emeritus</td>
<td>(Student Affairs), 1962-1972</td>
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<tr>
<td>Wurster, Marguerite S., Associate Librarian (SUS Extension Library)</td>
<td>1965-1978 St. Petersburg Campus</td>
<td></td>
</tr>
</tbody>
</table>

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