BUL 3122 LAW AND BUSINESS II (3)  
PR: BUL 3112. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

BUL 3659 THE LAW OF BUSINESS ASSOCIATIONS (3)  
PR: BUL 3112. A study of the law of corporations, the law of partnerships, and the law of agency.

BUL 4661 LAW AND THE ACCOUNTANT (3)  
PR: BUL 3112 or Cl. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 2935 SELECTED TOPICS IN BUSINESS (1-6)  
PR: Cl. Topics to be selected by department chairs. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business Administration.

GEB 4890 BUSINESS POLICY (3)  
PR: Senior standing. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4905 INDEPENDENT STUDY (1-3)  
PR: Cl. Specialized independent study determined by the student’s needs and interests. May be repeated up to eight credit hours. (S/U only.)

GEB 4915 INDEPENDENT RESEARCH (1-4)  
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION (1-4)  
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

MAN 5925 CBA WORKSHOP (1-4)  
Professional application workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

INFORMATION SYSTEMS AND DECISION SCIENCES

CGS 2000 COMPUTERS IN BUSINESS - 6A (3)  
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

ISM 3011 MANAGEMENT INFORMATION SYSTEMS (3)  
PR: CGS 2000; ACG 2001; ACG 2011 or equivalent. The study of information management, management information requirements and information systems in modern organizations.

ISM 3111 SYSTEMS ANALYSIS (3)  
Overview of the system development life cycle. Emphasis on current system documentation through the use of both classical and structured tools/techniques for describing process flows, data flows, data structures, and file designs. Discussion of the information gathering and reporting activities and of the transition from analysis to design.

ISM 3112 SYSTEMS DESIGN (3)  
PR: ISM 3111; COP 3120 or equivalent. Advanced study of structured systems design. Emphasis on strategies and techniques of structured analysis and structured design for producing logical methodologies for dealing with complexity in the development of information systems.

ISM 3431 MANAGEMENT SCIENCE PRODUCTION/OPERATIONS MANAGEMENT APPLICATIONS (3)  
PR: MAC 3233. Fundamentals of production operations management (POM) and fundamentals of management science (MS). The application of MS models in the solution of POM problems.

ISM 4212 DATABASE ADMINISTRATION (3)  

ISM 4220 DISTRIBUTED INFORMATION SYSTEMS (3)  
PR: ISM 3111, ISM 3112. Analysis, design, implementation and management of distributed information systems and networks.

ISM 4290 SENIOR SEMINAR IN INFORMATION SYSTEMS (3)  
PR: ISM 3111, ISM 3112, ISM 4300. A seminar covering advanced topics in system analysis and design. Applications of these procedures to actual or hypothetical cases.

ISM 4300 MANAGING THE INFORMATION SYSTEM FUNCTION (3)  
PR: ISM 3111, MAN 3025; or equivalent. An advanced study of information system management including system planning, project selection and management, and organizational information management policies.

ISM 4320 INFORMATION SYSTEMS CONTROLS (3)  
PR: ISM 3111. MIS Major or CI. A study of information systems control and its application in system design and system management.

ISM 4400 DECISION SUPPORT SYSTEMS APPLICATIONS-COMPUTER ASSISTED DECISION MAKING (3)  
PR: FIN 3403, QMB 3200, and ISM 3111. Study of the principles of decision making of the human/computer alliance. Hands-on computer-assisted-decision making in an organizational environment. Case studies and/or management games using microcomputers.

ISM 4905 INDEPENDENT STUDY (1-6)  
Independent study as directed by designated faculty. May be repeated up to 6 credit hours. (S/U only)

ISM 4930 SELECTED TOPICS IN MIS (1-9)  
Selected topics in MIS.

ISM 4950 INDEPENDENT RESEARCH (1-8)  
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH (3)  
PR: ISM 3431 or equivalent. Studies the problems of "operations" in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

MAN 4507 OPERATION PRODUCTION SYSTEMS (3)  
PR: MAN 4504 or Cl. Study of closed loop production planning and control systems. Master production planning, inventory management, materials requirements planning, capacity, management, production activity. Relationship to organizational effectiveness.

QMB 2150 BUSINESS AND ECONOMIC STATISTICS I - 6A (3)  
PR: MAC 3233. Description of sample data; calculation of probabilities, frequency functions of random variables, the binomial and normal distributions; sampling theory and estimation; test of hypotheses; elements of Bayesian decision theory.

QMB 3200 BUSINESS AND ECONOMIC STATISTICS II (3)  
PR: MAC 3233, QMB 2150. Theory and use of statistical inference. Point and interval estimations; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance; correlation; multiple regression; and nonparametric methods.

QMB 4600 QUANTITATIVE APPROACH FOR BUSINESS DECISIONS (3)  
PR: ISM 3431. The use of systematic approaches and management science tools for decision making and problem solving in an organizational setting. Emphasis is on quantitative approaches for problem identification, analysis, choice and implementation.

QMB 4703 SIMULATION AND MODELING TECHNIQUES (3)  
PR: ISM 3431 or Cl. A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

MANAGEMENT

MAN 3025 PRINCIPLES OF MANAGEMENT (3)  
Study of the fundamentals of management. It treats topics in organizational theory, organizational behavior, and interpersonal
relations which are relevant to effective management performance.

**MAN 3240 ORGANIZATIONAL BEHAVIOR ANALYSIS** (3)  
PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

**MAN 3301 PERSONNEL MANAGEMENT** (3)  
To develop a broad exposure to new approaches, techniques, and future trends in the management of personnel. A study of the major functions in personnel including job analysis, manpower planning, selection, performance evaluation, training, and wage and salary administration.

**MAN 3401 INDUSTRIAL RELATIONS** (3)  
A conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment.

**MAN 4120 MANAGERIAL BEHAVIORAL LABORATORY** (3)  
PR: MAN 3240 or equivalent. Development of direct understanding of personal, interpersonal, and intergroup factors present in organizational interaction. Stress is on a series of experiential exercises and written application of results within a laboratory setting.

**MAN 4129 THEORY AND PRACTICE OF MANAGEMENT SKILLS** (3)  
PR: MAN 3240. This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

**MAN 4280 ORGANIZATIONAL DEVELOPMENT AND CHANGE** (3)  
PR: MAN 3240 or CI. A lab course where students experimentally apply behavioral science techniques in an "action-research" framework to the cycle of planned change so as to build a more effective organization.

**MAN 4282 ORGANIZATIONAL ASSESSMENT** (3)  
PR: MAN 3240. The analysis and measurement of factors which influence organizational effectiveness and the quality of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.

**MAN 4402 EMPLOYMENT LAWS** (3)  
Federal and state regulation of the employment relationship, including wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining legislation.

**MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS** (3)  
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

**MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT** (3)  
PR: ACC 2001, ACC 2021, MAR 3023, or CI. Study of the factors involved in starting and managing a small-to-medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

**MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING** (3)  
PR: MAN 4802 or CI. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

**MAN 4905 INDEPENDENT STUDY** (1-3)  
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 8 credit hours. (SU only.)

**MAN 4930 SELECTED TOPICS IN MANAGEMENT** (1-3)  
PR: CI. Topics to be selected by instructor and department chairperson for pertinent Management issues.

**MAN 4931 INDEPENDENT RESEARCH** (1-4)  
PR: CI. Individual study conducted with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

**MAN 5714 URBAN MANAGEMENT** (3)  
The applicability of business management theories and practices to problem solving in the public sector. A formal theory of organization is used to compare and contrast private and public sector decision environments.

**MAN 5806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING** (1-3)  
Small business management consulting in an on-going firm. Field application of various aspects of business administration in analyzing strengths and weaknesses, development of recommendations for improvement, and initiation of steps to assist business principals in evaluation and implementation. Emphasis on developing management consulting skills and recognizing implications of small business owner-manager's capabilities and attitudes for success in implementing recommendations.

**MARKETING**

**MAR 2931 SELECTED TOPICS IN MARKETING** (1-4)  
PR: CI. Topics to be selected by department chairman. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business Administration. May be repeated up to 8 credit hours.

**MAR 3023 BASIC MARKETING** (3)  
PR: ACG 2001, ECO 2013, ECO 2023, or CI. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

**MAR 3400 PROFESSIONAL SELLING** (3)  
PR: MAR 3023 or CI. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

**MAR 3613 MARKETING RESEARCH** (3)  
PR: QMB 3200, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

**MAR 3823 MARKETING MANAGEMENT** (3)  
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. This course builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

**MAR 4156 INTERNATIONAL MARKETING** (3)  
PR: MAR 3023. A study of the procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

**MAR 4203 CHANNELS MANAGEMENT** (3)  
PR: MAR 3023. A detailed study of marketing channels as a functional area of marketing. Emphasis on management and responsibilities and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic interrelationships including distribution logistics.

**MAR 4213 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT** (3)  
PR: MAR 3023 or CI. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical
distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

**MAR 4231 RETAILING MANAGEMENT** (3)
PR: MAR 3023. A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

**MAR 4333 PROMOTION MANAGEMENT** (3)
PR: MAR 3023 or Cl. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. The decision making process in development of a promotional program is emphasized.

**MAR 4403 SALES MANAGEMENT** (3)
PR: MAR 3023 or Cl. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

**MAR 4453 INDUSTRIAL MARKETING** (3)
PR: MAR 3023. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

**MAR 4503 BUYER BEHAVIOR** (3)
PR: MAR 3023. A study of the basic concepts of buyer behavior, including pre- and post-purchase attitudes and behavior patterns, information processing relating to the functional areas of marketing and the buyer’s decision-making process. Managerial applications to marketing are emphasized.

**MAR 4824 MARKETING MANAGEMENT PROBLEMS** (3)
PR: Senior Standing, MAR 3823, MAR 3613, and two other 4000 level marketing courses, or Cl. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

**MAR 4903 INDEPENDENT RESEARCH** (1-3)
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 credit hours.

**MAR 4905 INDEPENDENT STUDY** (1-3)
PR: Cl. Specialized independent study determined by the students’ needs and interests. May be repeated up to 6 credit hours. (S/U only.)

**MAR 4933 SELECTED TOPICS IN MARKETING** (1-3)
PR: Cl. Topics to be selected by instructor and department chairperson.
COLLEGE OF EDUCATION
UNIVERSITY OF SOUTH FLORIDA - 1992/93 UNDERGRADUATE CATALOG

ADULT AND VOCATIONAL EDUCATION
Chairperson: W. E. Blank; Professor: F. F. Johnson; Associate Professors: W. E. Blank, R. Hill, W. B. James, C. Welte; Assistant Professors: D. B. Briscoe, D. Gardner, J. Scaglione; Visiting Assistant Professor: M. Gazvoda; Visiting Instructors: J. Grisham, W. Helton, G. Kilpatrick; Other Faculty: K. Childress, M. Paul.

CHILDHOOD/LANGUAGE ARTS/READING EDUCATION

EDUCATIONAL LEADERSHIP

EDUCATIONAL MEASUREMENT AND RESEARCH
Chairperson: B. W. Hall; Professors: L. M. Carey, B. W. Hall, W. G. Katzenmeyer, D. E. Stone, R. E. Wilk; Associate Professors: C. V. Hines, G. Hutchcraft, R. M. Smith; Assistant Professor: R. F. Dedrick, J. D. Kromrey.

PHYSICAL EDUCATION

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS

SECONDARY EDUCATION

SPECIAL EDUCATION
Chairperson: J. Paul; Professors: L. Bowers, E. Guetzloe, S. Klesius, C. D. Lavely, A. J. Mauser, S. P. Singh; Research Professor: W. Rhodes; Associate Professors: B. Epanchin, D. Evans, J. A. Merica, H. A. Sproule; Assistant Professors: A. Cranston-Gingras, D. Harris, K. Stoddard, D. Thomas, B. Townsend; Other Faculty: M. Gazvoda, H. Rosselli.

ADULT EDUCATION
ARE 4384 WORKING WITH THE ADULT LEARNER
ADULT EDUCATION
An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological and social characteristics of adult learners, and corresponding implications are explored.

ART EDUCATION
ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND
PR: Admission to College of Education. Designed to help the individual student discover and develop meanings and values in art and education with emphasis on communicative skills, both verbal and visual. Focus will be on the individual and potential alternatives in the teaching of art.

ARE 3354 ART TEACHING STRATEGIES I
PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and further enable the student to understand stages of young people, three to eighteen.

ARE 4112 EDUCATION THROUGH CRAFTS
An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials.

ARE 4260 SEMINAR IN ART EDUCATION CLASSROOM MANAGEMENT
PR: Admission to College of Education and ARE 3044. The concepts and areas of skill essential to successful practice in art education management. To include understanding of how art programs are funded, art facility planning, art curriculum development, art exhibition techniques, public relations promotion and supply and equipment requirements.

ARE 4440 ART TEACHING STRATEGIES II
Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION
PR: Admission to College of Education and ARE 3044. The study of processes and media involved in the expression of individual ideas through crafts. Emphasis placed on crafts in a contemporary society with skills in metals, weaving, fibers, and ceramics and their application in a public school curriculum.

ARE 4642 URBAN ENVIRONMENT ARTS WORKSHOP
PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique urban spaces and populations to explore potential new environments for teaching and learning in arts.

ARE 4909 DIRECTED STUDY: ART EDUCATION
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION
PR: Senior standing. Synthesis of teacher candidate's courses in
complete college program. Required concurrently with internship.

**ARE 4940 INTERNSHIP: ART 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.)

**EDG 4320 INTRODUCTION TO CREATIVE DRAMA** (3)
This course for classroom teachers introduces the theory and practice of creative drama as it applies to use in elementary, middle school and secondary schools. Beginning with a study of dramatic play as it relates to human development, the course includes basic procedures and teaching strategies when using pantomime, voice improvisation, theatre games and role playing and story dramatization.

**THE 4722 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS** (3)
The play production process as it applies to theatre artist-in-schools programs, including development of related classroom workshops and preparation of study guides and educational program materials as well as design, direction and rehearsal of play and touring methods. May be repeated for elective credit two times; once for major credit.

**THE 4723 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS** (3)
The performance process of performing for various school audiences and practice conducting classroom workshops following each performance. May be repeated for elective credit two times; once for major credit.

**THE 4761 METHODS OF TEACHING THEATRE FOR ADOLESCENTS** (3)
Methods of effective drama and theatre instruction in middle school, junior and senior high schools, recreation centers, community and professional theatres.

**BUSINESS AND OFFICE EDUCATION**

**BTE 4360 METHODS OF TEACHING: BUSINESS EDUCATION**
PR: Successful completion of BE competencies, or CI. Methods, techniques and materials for instruction.

**BTE 4364 SPECIAL TEACHING METHODS: BUSINESS EDUCATION**
PR: Successful completion of BE competencies, or CI. Methods, techniques, and materials for skill development.

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

**BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION** (2)

**BTE 4940 INTERNSHIP: BUSINESS EDUCATION** (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Business 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.)

**BTE 4948 FIELD-BASED SEMINAR IN BUSINESS EDUCATION** (3)
Supervised field experience and orientation to broad field business education. Specifically designed to be preparatory for the internship. (S/U only.)

**BTE 5171 CURRICULUM CONSTRUCTION: BUSINESS EDUCATION** (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis in task analysis and process evaluation.

**BTE 5245 PROGRAM MANAGEMENT: BUSINESS EDUCATION**
PR: Successful completion of BE competencies, or CI. Management of classroom, and auxiliary activities. Organizing, coordinating, and budgeting of adult, cooperative, and special programs.

**OST 3324 BUSINESS AND OFFICE MACHINES**
Introduction and practice in selected business and office machines to solve business mathematics problems.

**OST 3404 ADMINISTRATIVE OFFICE MANAGEMENT**
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 OFFICE INFORMATION PROCESSING**
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 nonmajors.

**OST 3712 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 4402 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)
Introduction to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Topics include the critical evaluation of educational software; conceptualizing uses of computers in the classroom in terms of computer-directed instruction, computer-enhanced instruction, and computer-managed instruction; understanding hardware; using and applying commercial courseware, general applications software (word processors, database managers, etc.), programming languages (Logo and BASIC), and disk operating systems.

**EME 5403 MICROCOMPUTERS IN EDUCATION: ELEMENTARY AND SECONDARY METHODS** (2-4)
Methods and applications of computers in education. Topics include: computer literacy, current trends and issues in computer education, and instructional pedagogy in computer science education.

**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 4101 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.

**EGC 4905 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION** (1-14)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)
SCHOOL PR: EDE
SLS SLS EOG EOG DEC DEC DEC DEC DEC DEC DEC DEC... 

tion to Students career decision processes . Knowledge majors. Offered anticipate . Observation of teaching at tives and PR : The study of the purposes, processes, organization, and Methods, techniques, and MENOS EDUCATION AND, METHODS OF TEACHING: 

MARKETING EDUCATION PR: Cl. Specialized ship . 

institution concurrently . 

hours . Registered for credit which accumulates from 9 to 12 semester experience is distributed over two or more semesters and coordinated with social 

DIST~IBUTIVE Organization, coordination, and budgeting of EDUCATION 

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 INTERNSHI...
or private elementary school. Concurrent enrollment in EEC 4936. (S/U only.)

HLP 4722 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 4313 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: Admission to College of Education and two college level mathematics courses. Methods for teaching number ideas, computation skills, and mathematical reasoning.

MAE 4326 Teaching Elementary School Mathematics II (2)
PR: MAE 4313. Methods for teaching informal geometry, measurement, probability and statistics.

MAE 4510 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, 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 Cl. Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.

ENGLISH EDUCATION

LAE 4325 METHODS OF TEACHING LANGUAGE ARTS - MIDDLE SCHOOL (3)
Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students. Must be taken one or two semesters prior to internship. Either this course or LAE 4642 must be taken concurrently with LAE 4530.

LAE 4464 Adolescent Literature for Middle and Secondary Students (3)
PR: English Education majors or Cl. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 4530 METHODS OF TEACHING ENGLISH EDUCATION (3)
PR: Senior standing or enrollment in Plan II Master's Program. Required concurrently with LAE 4325 or LAE 4642. Taken one semester (spring or fall) prior to internship.

LAE 4642 METHODS OF TEACHING HIGH SCHOOL LANGUAGE ARTS (3)
Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students. Must be taken one or two semesters prior to internship. Either this course or LAE 4325 must be taken concurrently with LAE 4530.

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

LAE 4935 SENIOR SEMINAR IN ENGLISH EDUCATION (2)

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 intern experience is distributed over two or more semesters, student intern must be enrolled 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 4314 FOREIGN LANGUAGE TEACHING IN THE ELEMENTARY SCHOOL (3)
PR: EDG 4620 or concurrent registration. Fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: FLE 4314. Fluency in the target language and in English (or CC). Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

FLE 4334 Practicum in Foreign Language Teaching in the Secondary School (3)
PR: Senior standing or enrollment in Plan II Master's Program (or CC). Required concurrently with FLE 4314 or FLE 4333. Fluency in the target language and in English. Preintrenship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

FLE 4936 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (2)

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. (S/U only.)

INDUSTRIAL AND TECHNICAL EDUCATION

EIA 4360 SPECIAL TEACHING METHODS: TECHNOLOGY EDUCATION (3)
Equips Technology Education 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 PROGRAM MANAGEMENT: INDUSTRIAL-TECHNICAL EDUCATION (4)**
PR: CI. 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 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION (4)**
PR: EIV 4360 or CI. 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 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 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 teacher 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 4165 CURRICULUM CONSTRUCTION: INDUSTRIAL-TECHNICAL EDUCATION (4)**
PR: EIV 4360 or CI. Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced mathematics. 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 TEACHING METHODS: HEALTH OCCUPATIONS (4)**
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 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. Reviews a wide variety of instructional approaches, 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 (3)**
PR: RED 4360, or CR in RED 4360. Students will study reading and communication skills as they relate to their particular content area in Adult and Industrial-Technical Education. This course, along with RED 4360, satisfies state certification requirement pertaining to secondary reading.

**EVT 4562 VOCATIONAL EDUCATION FOR SPECIAL NEEDS STUDENTS (4)**
PR: EVT 4365. Focuses on modifying the vocational education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of minority, handicapped, disadvantaged, non-traditional and other special needs students.

**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)**

**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 5265 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 PREPARATION AND DEVELOPMENT FOR TEACHING (4)**
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

**EVT 5664 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 COMPUTERS IN MATHEMATICS EDUCATION (3)**
PR: CI. Admission to mathematics education program. Operation of computers. Basic and Logo languages. Examination and evaluation of software appropriate for teaching mathematics.

**MAE 4320 TEACHING MATHEMATICS IN THE MIDDLE GRADES (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
MAE 4551 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 (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)
Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

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.)

MEASUREMENT AND RESEARCH

EDF 4430 MEASUREMENT FOR TEACHERS (3)
PR: Upper level standing. Concepts and skills related to planning, developing, administering, and interpreting classroom tests; interpreting standardized tests; and evaluating and reporting student progress.

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)
Introduction to 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.)

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 1341L. 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 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 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 2171 GYMNASTICS (2)
Continuation of PEL 1201. Extended opportunities to master the various gymnastics events. Competition and individual routines. (S/U only.)

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

PEM 2550 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.)

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

PEM 2113 LIFESAVING (2)
PR: PDA 2172 or equivalent. Knowledge and skills necessary for saving the lives of others in the event of aquatic emergency. ARC certification offered. (S/U only.)

PEM 2136 SKIN & SCUBA DIVING (2)
PR: PDA 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.)

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

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.

PROFESSIONAL PHYSICAL EDUCATION

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

PES 2420 PRACTICUM IN HEALTH PROMOTION/WELLNESS (4)
PR: CC. Completion of Semesters I and II. Eight contact hours per week in fitness, health promotion, or wellness program.

PES 3951 COMMUNICATION SKILLS FOR WELLNESS LEADERS (3)
PR: CC. Interpersonal skills related to counseling in the wellness setting as well as written and oral expression are emphasized. Opportunities for student presentations and instructor feedback.

PES 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 and wellness leaders. 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 psycho-motor 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 instruction 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 semester. 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  (3)
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. & PET 3352. 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. & PET 3352. Techniques in conducting health-fitness test 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 PHYSICAL EDUCATION PROGRAMS  (3)
PR: CC. A study of organizational and administrative procedures for physical education programs in elementary and secondary schools. Includes scheduling, budget, facility, 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, legal liability, 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 4451 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY I  (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 4933 SENIOR SEMINAR IN SECONDARY 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 4947C 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.

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS

EDF 3122 LEARNING AND THE DEVELOPING CHILD (4)
PR: A 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 HUMAN DEVELOPMENT AND LEARNING (3)
PR: A 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 (4)
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 (4)
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 (3)
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.

EDF 3810 COMPARATIVE EDUCATION (3)
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 (4)
PR: General psychology and admission to College of Education. Adolescent 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: CI. 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 (4)
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 (3)
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.

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 4334 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 4511 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.

SCIENCE EDUCATION

SCE 4305 COMMUNICATION SKILLS IN THE SCIENCE CLASSROOM (2)
Reading and communication skills important in understanding scientific literature and communicating findings to others.

SCE 4320 TEACHING METHODS IN MIDDLE GRADE SCIENCE (3)
PR: Completion of 25 semester hours of Science or CC. Survey techniques and materials unique to science, grades 5-9. Not designed for high school certification purposes.

SCE 4330 TEACHING METHODS IN THE SECONDARY SCHOOL-SCIENCE (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 4936 SENIOR SEMINAR IN SCIENCE EDUCATION (2)

SCE 4940 INTERNSHIP: SCIENCE EDUCATION (1-12)
One full semester of internship in a public or private school.
Intern takes Senior Seminar in Education concurrently. (S/U only.)

**SCE 5937 SELECTED TOPICS IN SCIENCE EDUCATION** (1-4)
May be repeated when topics are not duplicated.

**SOCIAL SCIENCE EDUCATION**

**SSE 4333 TEACHING MIDDLE GRADE SOCIAL SCIENCE** (3)
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 4333 SECONDARY SOCIAL SCIENCE EDUCATION TEACHING METHODS** (3)
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** (2)
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** (3)
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** (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

**SSE 5930 INTERNSHIP: SOCIAL SCIENCE 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.)

**SPECIAL EDUCATION**

**EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS** (3)
PR: EEX 3010, or equivalent or CI. Survey of emotional, behavioral 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 4905 INDEPENDENT STUDY: BEHAVIOR DISORDERS** (1-3)
PR: CI. 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** (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS** (1-6)
PR: EEX 3010 and major in behavior disorders. Supervised field experience in assessment, classroom management, and clinical teaching with children who have emotional and behavioral disabilities. Repeatable up to 6 credit hours. (S/U only.)

**EEX 4070 INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM** (2-3)
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** (3)
PR: EDF 3214 and EEX 3010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

**EEX 4232 CLINICAL TEACHING IN SPECIAL EDUCATION** (3)
PR: EEX 3010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

**EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT** (3)
PR: EEX 3010 or equivalent or CI. 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.

**EEX 4604 BEHAVIOR MANAGEMENT FOR SPECIAL NEEDS AND AT-RISK STUDENTS** (3)
PR: EEX 3010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and management challenging and disruptive classroom behavior as well as teaching social skills.

**EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL STUDENT EDUCATION** (1-3)
PR: CI. 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** (1-3)
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** (2)
PR: Senior standing. Taken concurrently with EEX 4940. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

**EEX 4940 INTERNSHIP: EXCEPTIONAL STUDENT EDUCATION** (1-10)
One full semester of internship in an accredited public or private school. Intern takes Senior Seminar in Education concurrently. (S/U only.)

**EEX 5705 SEMINAR IN PRESCHOOL HANDICAPPED** (2)
PR: CI. Seminar about the needs, interventions, and coordination of services for preschool handicapped children and their families. May be repeated up to 6 credit hours.

**EEX 5707 WORKING WITH FAMILIES: A PLURALISTIC PERSPECTIVE** (3)
PR: Graduate standing or CI. The impact of the socio-cultural environment on the education of at-risk and handicapped children; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school.

**EGI 4941 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 projects.

**EGI 5051 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.

**EGI 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.

**ELD 4011 INTRODUCTION TO SPECIFIC LEARNING DISABILITIES** *(3)*
PR: EEX 3010 or CI. Characteristics, needs and abilities of children with SLD. Emphasis is on theories, issues, trends, and philosophy of problems for such children.

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

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

**ELD 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN SLD** *(1-6)*
PR: EEX 3010 and major in Specific Learning Disabilities. Supervised field experiences in assessment, behavior management and clinical teaching with classes for children who have specific learning disabilities. Repeatable up to a total of 6 hours. (S/U only.)

**EMR 4011 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 4011 or CI. Emphasis on educational methods and materials for teaching the severely/profoundly handicapped. Practicum/field experience linkage.

**EMR 4905 INDEPENDENT STUDY: MENTAL RETARDATION** *(1-3)*
PR: CI. 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: EEX 3010 and major in Mental Retardation. Supervised field experiences in assessment, behavior management, and clinical teaching with children who have mental retardation. Repeatable up to a total of 6 hours credit. (S/U only.)

**EPH 5051 ADVANCED THEORIES IN MOTOR AND PHYSICAL DISABILITIES** *(3)*
PR: EEX 3010 or CI. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

**EPH 5321 EDUCATIONAL STRATEGIES FOR PHYSICALLY AND MULTIHANDICAPPED STUDENTS** *(3)*
PR: EPH 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

**EVI 5311 THE VISUALLY HANDICAPPED IN THE CLASSROOM** *(3)*
PR: EEX 3010 or CI. The visually handicapped in the classroom, structure, hygiene and educational implications.
COLLEGE OF ENGINEERING
UNIVERSITY OF SOUTH FLORIDA - 1992/93 UNDERGRADUATE CATALOG

CHEMICAL ENGINEERING


CIVIL ENGINEERING AND MECHANICS


COMPUTER SCIENCE AND ENGINEERING


ELECTRICAL ENGINEERING


INDUSTRIAL AND MANAGEMENT SYSTEMS ENGINEERING


MECHANICAL ENGINEERING


ENGINEERING TECHNOLOGY

Chairperson: D.K. Gooding; Lecturers: L.Karst, J.Seeman.

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 2200 ENGINEERING WITH COMPUTERS (2)
PR: EGN 2210. 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 (3)
PR: MAC 3281. The FORTRAN programming language will be used to analyze and solve typical Engineering problems on modern computing equipment. The student will learn the syntax of the FORTRAN programming language; the practical utilization of modern computing equipment and operating systems; general problem solving techniques; and modern programming practices.

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)

EGN 3353C BASIC FLUID MECHANICS (3)

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 3375. Continuation of EGN 3373 or EGN 3374.

EGN 3383 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 4366 MATERIALS ENGINEERING II (3)
PR: EGN 3365L. 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 4420 NUMERICAL METHODS OF ANALYSIS (2)

EGN 4450 INTRODUCTION TO 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 5422 ENGINEERING ANALYSIS II (3)

EGN 5423 ENGINEERING ANALYSIS III (3)
PR: CC or EGN 4450. Finite fields and coding applications. Probabilities of error detection and correction. Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverses.

EGN 5424 ENGINEERING ANALYSIS IV (3)
PR: MAC 4450 and MAP 4302, or CC. Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.

EGS 1113 INTRODUCTION TO DESIGN GRAPHICS (3)
An introduction to the basic principles of engineering design. 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.

CHEMICAL ENGINEERING

ECH 3023 INTRODUCTION TO PROCESS ENGINEERING (3)

ECH 3264 TRANSPORT PROCESSES I (3)
PR: EME 3203, ECH 3702. Design, sizing, and selection of fluid flow and heat transfer equipment to satisfy process demands. Lecture/laboratory.

ECH 3264L TRANSPORT PROCESSES LAB I (1-5)
PR: ECH 3264C or CC. Engineering laboratory experiments in fluid flow and heat transfer. Formal oral and written presentations.

ECH 3702 INSTRUMENT SYSTEMS I (3)
PR: EGN 3373. Applications of analog and digital devices to instrumentation problems in chemical and mechanical engineering. Basic electrical measurements. Computer assisted measurement and process monitoring.

ECH 4123 PHASE AND CHEMICAL EQUILIBRIA (3)
PR: EME 3103 or CHM 4410. Correlation of thermodynamic properties of real systems and solutions. Description of multi-component, multiphase systems in equilibrium. Applications to separation processes and reactor design. Lecture/laboratory.

ECH 4244L CHEMICAL ENGINEERING LABORATORY II (2)
PR: EME 3303, EME 3301, ECH 3264L, ECH 4123L, ECH 4265L, or CC. Engineering laboratory experiments in Chemical Engineering Processes: fluid flow, heat transfer, phase and chemical equilibria, and reacting systems.

ECH 4265 TRANSPORT PROCESSES II (3)
PR: ECH 3264C. Design, sizing, and selection of mass transfer equipment. Absorption, distillation, extraction, humidification. Lecture/laboratory.

ECH 4314 AUTOMATIC CONTROL I (3)

ECH 4403C TRANSPORT PROCESSES III (3)
PR: ECH 4265C. Principles and analogy of momentum, heat and mass transport phenomena. Emphasis is given to the description of these phenomena from a microscopic point-of-view.

ECH 4415 REACTING SYSTEMS (3)
PR: ECH 4123, CHM 4412. CR: EME 4522L. Equilibrium and rate phenomena in reacting systems. Description of homogeneous chemical reactors for design and control. Lecture/laboratory.

ECH 4415L REACTING SYSTEMS LAB (0)
PR or CR: ECH 4415 or CC. Engineering laboratory experiments in reacting systems. Formal oral and written presentations.

ECH 4745 THEORY AND DESIGN OF BIOPROCESSES (3)
PR: Senior standing in engineering or CC. Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biotechnological systems. Open to majors and non-majors with CC.

ECH 4905 INDEPENDENT STUDY (1-4)
PR: Cl. Specialized independent study determined by the student’s needs and interests. May be repeated up to 9 credit hours.

ECH 4930 SPECIAL TOPICS IN CHEMICAL ENGINEERING I (1-4)
PR: CC. May be repeated up to 9 credit hours.

ECH 4931 SPECIAL TOPICS IN CHEMICAL ENGINEERING II (1-4)
PR: Cl. May be repeated up to 9 credit hours.

ECH 5158C SEMINAR IN THE PHILOSOPHY OF THERMODYNAMICS (3)
PR: Cl. Philosophical and technical aspects of contemporary thermodynamics, including entropy, time, irreversible processes, complex structures, and analysis of biological problems. Includes topics in philosophy of science. Open to majors and non-majors.

ECH 5324 AUTOMATIC PROCESS CONTROL II (3)
PR: EME 4314, or CC. The course covers the root locus and frequency response methods. The techniques of rational, cascade feed forward, selective, override, and multivariable control techniques are discussed in detail. The course also shows how to utilize these techniques to design control systems. Z-transforms and discrete control including PID, Dahlin, and deadtime compensations.

ECH 5746 INTRODUCTION TO BIOMEDICAL ENGINEERING (3)
PR: Senior standing in engineering or CC. Introduction to biomedical engineering, including transport phenomena in biomedical systems, biometers, biomedical instrumentation, prosthetic devices, and clinical engineering. Open to non-engineering students with CC.

ECH 5747 SELECTED TOPICS IN CHEMICAL ENGINEERING BIOTECHNOLOGY (3)
PR: Senior standing in engineering or CC. Selected topics in chemical engineering biotechnology, including pharmaceutical engineering, immobilized enzyme technology, food engineering, and fermentation. Open to majors and non-majors with CC. May be repeated for credit as subjects vary.

ECH 5748 SELECTED TOPICS IN BIOMEDICAL ENGINEERING (1-3)
PR: Cl. Specialized topics in biomedical engineering, including biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be
CIVIL ENGINEERING AND MECHANICS

CENG 4011 SOIL MECHANICS I (3) PR: EGN 3353C. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shear strength.

CENG 4012 SOIL MECHANICS II (3) PR: CENG 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.

CENG 4211 GEOTECHNICAL LABORATORY (1) PR: CENG 4011. Demonstrates and experiments verifying theoretical bases of Geotechnical Engineering. One hour lecture and two laboratory hours per week.

CENG 4801 GEOTECHNICAL DESIGN (2) PR: CENG 4011. Design of geotechnical systems including bases, foundations, embankments, and retaining walls.

CENG 5115 FOUNDATION ENGINEERING (3) PR: CENG 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.

CENG 5205 LABORATORY TESTING FOR GEOTECHNICAL ENGINEERS (3) PR: CENG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

CENG 5302 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.

CENG 5404 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.


CENG 5461 COMPUTER AIDED STRUCTURAL DESIGN (3) PR: CENG 4141. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CENG 5465 CONCEPTS OF STEEL DESIGN (3) PR: CENG 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.

CENG 5468 STRUCTURAL DESIGN STEEL (2) PR: CENG 4605. Design of structures made of steel.

CENG 5472 CONCEPTS OF CONCRETE DESIGN (3) PR: CENG 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.

CENG 5474 STRUCTURAL DESIGN-CONCRETE (2) PR: CENG 4702. Design of concrete structures.

CENG 5480C TIMBER AND MASONRY DESIGN (3) PR: CENG 3102, CENG 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters.

CENG 5504 ADVANCED MECHANICS OF MATERIALS I (3) PR: EGN 3331, MAP 4302. Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, introduction to theories of elasticity, and bending of thin plates.

CENG 5509C STRUCTURAL DYNAMICS (3) PR: CENG 3102. Behavior of structural components and systems when subjected to periodic dynamic loads.

CENG 5515 PRESTRESSED CONCRETE (3) PR: CIV 4141. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of prestress applications.

CENG 5601 DESIGN AND PRACTICE (3) PR: EGN 3353C, 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.

CENG 5722C ENGINEERING CONTRACTS, SPECIFICATIONS AND ETHICS (3) PR: EGN 3331. 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.

CENG 5851 CEMENT AND CONCRETE DESIGN (2) PR: EGN 3365L. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.

CENG 5905 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.)

CENG 5911 RESEARCH IN CIVIL ENGINEERING AND MECHANICS (1-4) PR: CC.

CENG 5914 SENIOR PROJECT (2) PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

CENG 5933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS (1-5) PR: CI. New technical topics of interest to civil engineering students.

CENG 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.

CWR 4103 WATER RESOURCES ENGINEERING (3) PR: CWR 4202. A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

CWR 4202 HYDRAULICS (3) PR: EGN 3353C. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

CWR 4310 HYDRAULIC DESIGN (2) PR: CWR 4103. Design of hydraulic systems, including drainage, water supply, and flood control.

EES 5203 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.

EME 4310 CORROSION OF ENGINEERING MATERIALS I (3) PR: EGN 3365L. Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.
EMA 4325 CORROSION CONTROL SYSTEM DESIGN (2)
PR: EMA 4324. Design of corrosion prevention systems and prediction of the behavior of materials in various corrosive environments.

EMA 4304 PROCESSES IN MATERIALS ENGINEERING (3)
PR: EGN 3365L. Introduction to the basic theories of solidification and ultrapurification of materials, and discussion of the primary methods of shaping and forming materials.

EMA 4703 FAILURE ANALYSIS AND PREVENTION (3)

EMA 4704 SELECTION AND APPLICATION OF ENGINEERING MATERIALS (2)
PR: EGN 3365L. Determination of the property requirements for the utilization of materials in specific applications, comparison of properties of metals, plastics, and ceramics, the effect of heat treatment, and applications.

ENV 3001 ENVIRONMENTAL ENGINEERING (3)
CR: ENG 3353C. An introduction to various aspects of environmental problems faced by today's society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection.

ENV 3001 AIR POLLUTION CONTROL (2)
PR: EGN 3363C. Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 4402 ENVIRONMENTAL ENGINEERING LABORATORY (1)
PR: CHM 3200, ENV 3001. Laboratory experience in the measurement of environmental parameters.

ENV 4417 WATER QUALITY AND TREATMENT (3)
PR: CWR 4202. 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.

ENV 4503 ENVIRONMENTAL UNIT OPERATIONS (3)
PR: EGN 3353C. Corequisite ENV 4503. A design oriented course which utilizes the theory obtained in the Unit Operations course to design both industrial and domestic water treatment and water transport systems. It emphasizes the design procedures normally used in engineering practice.

ENV 4502 ENVIRONMENTAL UNIT OPERATIONS (3)
PR: EGN 3343, ENV 3353C, CR: ENV 3001. The theory and the design of unit operations normally used in environmental engineering, such as agitation and mixing of liquids, filtration, leaching, gas absorption, sedimentation and clarification, drying, and evaporation.

ENV 4503 ENVIRONMENTAL UNIT PROCESSES (3)
PR: ECH 3023, ENV 4502. The theory and design of unit processes normally used in environmental engineering such as coagulation of colloidal materials, water stabilization, water softening and neutralization, ion exchange, adsorption and oxidation processes for removal of iron and magnesium.

ENV 4531 WASTEWATER SYSTEMS DESIGN (2)
PR: ENV 4503. Emphasis is placed upon design practice and economics for a comprehensive design of a wastewater system and a collection system.

ENV 4552 ENVIRONMENTAL UNIT OPERATIONS AND PROCESSES LABORATORY (1)
PR: EGN 3353C. CR: ENV 4503. Experimental work of the theory and design practices learned in Unit Operations and Unit Processes lecture courses. It provides the student familiarity with the development of bench and pilot plant processes and operations used in environmental engineering.

ENV 5102 AIR SOURCE MANAGEMENT (3)
PR: CI. Air pollution source impacts on ambient air quality, modeling, regulatory approaches, source strategic controls and surveillance.

ENV 5345 SOLID AND HAZARDOUS WASTE CONTROL (3)
PR: CI. Treatment practices and design of waste handling systems to include: land treatment, pre-treatment, incineration, resource recovery, recycle, waste elimination.

ENV 5388 URBAN WATER TREATMENT THEORY AND DESIGN (3)
PR: ENV 4417 and CI. A study of the theory of water treatment and the relation of theory to analysis and design practice. Emphasis is given to unit processes. The course is devoted to the design and analysis of specific water treatment facilities.

ENV 5539 URBAN WASTEWATER TREATMENT THEORY AND DESIGN (3)
PR: ENV 4417. CI. A study of the theory of wastewater and the relation of theory to analysis and design practice. Emphasis is given to unit processes. The course is devoted to the design and analysis of specific wastewater treatment works.

ENV 5614 ENVIRONMENTAL RISK ANALYSIS (3)
PR: CI. Study of comprehensive application of risk analysis techniques for environmental control and protection purposes.

SUR 3141 ENGINEERING LAND SURVEYING (3)
PR: EGM 3343, EGN 3363C.

TTE 4004 TRANSPORTATION ENGINEERING I (3)
PR: EGN 3321. Principles of surface transportation system development, design, and operations; administration, modal characteristics, capacity, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.

TTE 4005 TRANSPORTATION ENGINEERING II (3)
PR: TTE 4004, SUR 3140. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral and superelevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental Impacts; site layout & design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.

TTE 4821 TRANSPORTATION SYSTEMS DESIGN (2)
PR: TTE 4005. Comprehensive surface transportation design laboratory experience involving function design, traffic and facility sizing, complete alignments, site surveying & layout plan and quantity preparation with computerized designed applications.

COMPUTER SCIENCE AND ENGINEERING

CAP 5400 DIGITAL IMAGE PROCESSING (3)
PR: EEL 4851 Data Structures, or Graduate Standing. Image formation, sources of image degradation, image enhancement techniques, edge detection operators, and threshold selection, low-level processing algorithms for vision, image data compression.

CAP 5600 INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3)
PR: 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.

CAP 5682 EXPERT AND INTELLIGENT SYSTEMS (3)
Basic concepts, techniques and tools for the design and implementation of expert and intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems.

CAP 5690 FUNCTIONAL PROGRAMMING LANGUAGES (3)
PR: COP 4020. The properties of functional and applicative languages; comparison with conventional languages, features and examples of applicative languages, Lisp, KRC and Forth. Implications to computer architecture.

CDA 4100 COMPUTER ORGANIZATION AND ARCHITECTURE (3)
PR: EEL 4705, or CC. CR: CDA 4103. Elements of computer systems; processors, memories and switches. Register transfer pres-
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>COP 4020</td>
<td>PROGRAMMING</td>
<td></td>
<td>CDA 4103 MINICOMPUTER LABORATORY (1) Cr: CDA 4100. Minicomputer organization and programming.</td>
</tr>
<tr>
<td>COP 4203</td>
<td>COMPUTER SYSTEM DESIGN</td>
<td></td>
<td>PR: EEL 4705, EEL 4705L. Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.</td>
</tr>
<tr>
<td>CIS 4910</td>
<td>COMPUTER SCIENCE PROJECT</td>
<td></td>
<td>Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.</td>
</tr>
<tr>
<td>CIS 4930</td>
<td>SPECIAL TOPICS IN COMPUTER SCIENCE I</td>
<td></td>
<td>PR: CC. CIS 493S COMPUTER SCIENCE AND ENGINEERING SEMINAR (2) Cr: CC. This is a seminar course for majors in Computer Science and Engineering. May be repeated up to 4 credit hours.</td>
</tr>
<tr>
<td>COP 3000L</td>
<td>COMPUTER SCIENCE LABORATORY (3)</td>
<td></td>
<td>PR: COP 3002. Laboratory for implementation of algorithms in a general purpose computer language.</td>
</tr>
<tr>
<td>COP 3002</td>
<td>INTRODUCTION TO COMPUTER SCIENCE (3)</td>
<td></td>
<td>PR: EGN 2210 or CI Cr: COP 3000L. Introduction to the concepts of algorithmic formulation of problems for computer solution and the general abstract operations used in these formulations.</td>
</tr>
<tr>
<td>COP 3051</td>
<td>PROGRAMMING LANGUAGES</td>
<td></td>
<td>PR: EEL 4851C and COP 4400. An introduction to programming languages, survey of language types and design of translators and interpreters.</td>
</tr>
<tr>
<td>EEL 4705</td>
<td>LOGIC DESIGN</td>
<td></td>
<td>PR: EGN 3373, CR: EEL 4705L or CC. For CS &amp; E students CR or PR: COP 3002. Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.</td>
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<tr>
<td>EEL 4705L</td>
<td>LOGIC LABORATORY</td>
<td></td>
<td>CR: EEL 4705.</td>
</tr>
<tr>
<td>EEL 4743L</td>
<td>MICROPROCESSOR-LABORATORY</td>
<td></td>
<td>CR: EEL 4757. Laboratory for Microprocessor use and evaluation.</td>
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<tr>
<td>EEL 4748</td>
<td>MICROPROCESSOR-BASED SYSTEM DESIGN AND APPLICATION</td>
<td></td>
<td>PR: EEL 4757, EEL 4743L. Study of techniques for design of microprocessor-based systems used in various applications. Includes a project on development of an experimental application system.</td>
</tr>
<tr>
<td>EEL 4851C</td>
<td>DATA STRUCTURES</td>
<td></td>
<td>PR: COP 3002, COP 3000L. Fundamentals of data organization for purposes of program efficiency, clarity and simplicity will be addressed.</td>
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<tr>
<td>EEL 4852C</td>
<td>DATA BASE SYSTEMS</td>
<td></td>
<td>PR: COP 4400 and EEL 4851C. Fundamentals of data base management systems. CODASYL, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.</td>
</tr>
<tr>
<td>EEL 5706</td>
<td>TESTING AND FAULT TOLERANCE</td>
<td></td>
<td>PR: CDA 4101, COT 4130, or graduate standing. Reliability concepts, fault analysis and diagnosis in digital circuits, fault modeling, fault tolerant design, CMOS testability, self-checking circuits, design for testability, fault masking techniques, and fault simulation.</td>
</tr>
<tr>
<td>EEL 5711</td>
<td>INTRODUCTION TO COMPUTER GRAPHICS I</td>
<td></td>
<td>PR: CC. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.</td>
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**ELECTRICAL ENGINEERING**

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<tr>
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<tr>
<td>EEL 3302</td>
<td>ELECTRONICS I</td>
<td></td>
<td>PR: EGN 3373. A course in the physical principles of electronic devices with emphasis on semiconductor electronics. Includes the analysis and design of amplifiers and switching circuits.</td>
</tr>
<tr>
<td>EEL 3410</td>
<td>4411 FIELDS AND WAVES I, II</td>
<td></td>
<td>PR: MAP 4302, PHY 3049, PHY 3049L. A basic introduction to electromagnetic field theory, including static and dynamic electromagnetic fields.</td>
</tr>
<tr>
<td>EEL 4102</td>
<td>LINEAR SYSTEMS ANALYSIS</td>
<td></td>
<td>PR: EEL 3100. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.</td>
</tr>
<tr>
<td>EEL 4108</td>
<td>DISTRIBUTED NETWORKS</td>
<td></td>
<td>PR: EEL 3410, EEL 3100. Transmission lines, standing waves, impedance, waveguides.</td>
</tr>
<tr>
<td>EEL 4163</td>
<td>COMPUTER AIDED DESIGN AND ANALYSIS</td>
<td></td>
<td>PR: EEL 3302, EEL 4705. 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</td>
</tr>
</tbody>
</table>
solid state design, systems analysis, digital logic, and transfer function solutions.

EEL 4305 ELECTRONICS II (3)
PR: EEL 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

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

EEL 4411 See EEL 3410

EEL 4511 COMMUNICATION ENGINEERING (2)
PR: EEL 4512. Analog telephone network; digitalization. Digital transmission and multiplexing. Digital switching; space division switching, time-division switching, space-time switching; analog environment. Broadcasting and recording (audio and video); television systems, cable and satellite TV.

EEL 4511L COMMUNICATIONS LABORATORY (1)

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.

EEL 4512L LOGIC LABORATORY (1)
CR: EEL 4512. Experiments in digital logic, including binary and Boolean functions; logic circuits in computers.

EEL 4657 LINEAR CONTROL SYSTEMS (3)

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

EEL 4705L LOGIC LABORATORY (1)
CR: EEL 4705.

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

EEL 4906 DESIGN PROJECT (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 SYSTEM ANALYSIS (3)
Analysis technique for AC power systems.

EEL 5344 DIGITAL CMOS/VLSI DESIGN (3)
PR: EEL 4705. 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 5351 MICROELECTRONICS (3)
PR: EEL 3410. Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.

EEL 5356 INTEGRATED CIRCUIT TECHNOLOGY (3)
PR: EEL 4351 or CI. 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)

Switched capacitor filters. Analog simulation.

EEL 5388 LOW NOISE ELECTRICAL CIRCUITS (3)
PR: EEL 3302. Noise sources, circuit noise representations, noise in diodes, bipolar transistors, field-effect transistors and sensors, low noise circuit design and noise measurements.

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 ANTENNA THEORY (3)
PR: EEL 4411 or CC. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.

EEL 5572 LOCAL AREA NETWORKS AND INTERFACING (3)
PR: EEL 4512. Network components: Communication terminals. PC’s telephone, etc. Basics of LAN’s, Tx media topologies, access methods, and LAN characteristics. Interfacing of terminals and PC’s to LAN’s; NAU’s and other interfacing devices; interface selection. LAN design issues, repeaters, timing circuits, gateways.

EEL 5631 DIGITAL CONTROL SYSTEMS (3)
PR: EEL 4657. Sample data and digital control processes.

EEL 5754C MICROPROCESSOR BASED DIGITAL SIGNAL PROCESSING (3)
PR: EEL 4705 or CC. Arithmetic and logic units, microprocessors, digital signal processing, and applications to digital control and instrumentation.

EEL 5820 IMAGE PROCESSING (3)
PR: EEL 5755 or CC. Two-dimensional signal processing 2-D, random fields. Image data compression; image enhancement, and object detection. Image processing by computers, applications of image processing.

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

EEL 6706 TESTING & FAULT TOLERANCE IN DIGITAL SYSTEMS (3)
PR: CDA 4101, CIT 4130, or graduate standing. Reliability concepts, fault analysis & diagnosis in digital circuits, fault modeling, fault tolerant design, CMOS testability, self-checking circuits, design for testability, fault masking techniques, and fault simulation.

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

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

ELR 4306L LABORATORY 4 (1)
PR: ELR 3301L 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 4600 INTRODUCTION TO INDUSTRIAL SYSTEMS (3)
PR: ETI classification or CC. Introduction to organizational planning and control functions in industrial systems.

ETI 4614 PRINCIPLES OF INDUSTRIAL OPERATIONS I (3)
PR: ETI classification or 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.
INDUSTRIAL AND MANAGEMENT SYSTEMS

EIN 4304C 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 WORK ANALYSIS
PR: EGN 3613, EGN 3443; CR: AGC 3074. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

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

EIN 4333 PRODUCTION CONTROL
PR: ESI 4312. Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 4384L PLANNING AND CONTROL DESIGN
PR: EIN 4312L EIN 4411L. Design and modification of industrial production and material handling facilities. Basic analysis techniques, use of computer programs, automated warehousing.

EIN 4411L MANUFACTURING PROCESSES
PR: EGN 3365. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4601 AUTOMATION AND ROBOTICS
PR: EIN 4411L. Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

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

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

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
Students of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

EIN 5322 PRINCIPLES OF ENGINEERING MANAGEMENT
Introduction to the fundamentals of accounting, finance, management, and marketing as needed by engineers, scientists, and other professionals in managerial positions.

EIN 5357 ENGINEERING VALUE ANALYSIS

EIN 5388 TECHNOLOGY FORECASTING
Introduction to forecasting techniques used to plan and schedule production and inventory control functions. Smoothing and decomposition time-series methods, regression methods, and automatic 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
PR: CC.

ESI 4221 INDUSTRIAL STATISTICS AND QUALITY CONTROL
PR: EGN 3443. Application of statistical techniques to the control of industrial processes. Control charts, acceptance sampling, design of experiments, analysis of variance and regression.

ESI 4234 DESIGN OF EXPERIMENTS
PR: EGN 3443. Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

ESI 4312 DETERMINISTIC O. R.

ESI 4315 INDUSTRIAL SYSTEMS SIMULATION
PR: ESI 4313. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

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

ESI 4910 SENIOR PROJECT
PR: EIN 4364, CR: EIN 4333, ESI 4523. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

ESI 5210 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 5236 RELIABILITY ENGINEERING
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, queueing, inventory, network analysis. Not open to students who have had ESI 4312.

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

(Credit for Engineering Majors)

CDA 3100 SC INTRODUCTION TO COMPUTERS II
PR: CDS 3060. Number systems, internal representation of data and instructions, algorithms and flowcharting. Introduction to machine and assembler language and higher level language.

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

CGS 2080 COMPUTERS AND SOCIETY
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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 3060</td>
<td>SC INTRODUCTION TO COMPUTERS AND PROGRAMMING IN BASIC-6A</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>CGS 3425</td>
<td>SC APL PROGRAMMING</td>
<td>PR</td>
<td>CGS 3060. The use of the APL language as an interactive mode to solve business and scientific programs.</td>
</tr>
<tr>
<td>CGS 3462</td>
<td>SC PASCAL PROGRAMMING</td>
<td>PR</td>
<td>CGS 3060. Structured programming implemented with the PASCAL language. Emphasis on program structure and data manipulation.</td>
</tr>
<tr>
<td>CGS 3463</td>
<td>SC GPSS SIMULATION</td>
<td>PR</td>
<td>COP 3200. The development and execution of discrete event simulation models of real world systems using the GPSS language.</td>
</tr>
<tr>
<td>COP 3120</td>
<td>SC COBOL COMPUTER APPLICATIONS</td>
<td>(3)</td>
<td>PR: COP 3200. Applications of various high level languages to current scientific and engineering problems.</td>
</tr>
<tr>
<td>COP 3121</td>
<td>SC COBOL PROGRAMMING</td>
<td>(3)</td>
<td>PR: Graduate student status. The use of the FORTRAN language in solving programming problems.</td>
</tr>
<tr>
<td>COP 3130</td>
<td>SC PL/I PROGRAMMING</td>
<td>(3)</td>
<td>COP 3200. Use of PL/I language features in programming for business and scientific application. File and string manipulation, asynchronous and stream-oriented transmission.</td>
</tr>
<tr>
<td>COP 3200</td>
<td>SC FORTRAN PROGRAMMING</td>
<td>(3)</td>
<td>PR: CGS 3060. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.</td>
</tr>
<tr>
<td>EAS 4121</td>
<td>HYDRO AND AERODYNAMICS</td>
<td>(3)</td>
<td>EML 3701, MAP 4302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.</td>
</tr>
<tr>
<td>EAS 5100</td>
<td>AERODYNAMICS</td>
<td>(3)</td>
<td>PR: EML 3701, and CI. Fundamentals of aerodynamic flow and flight including potential theory, circular theory, vorticity considerations, wing theory and design.</td>
</tr>
<tr>
<td>EML 3264</td>
<td>KINEMATICS AND DYNAMICS OF MACHINERY</td>
<td>(3)</td>
<td>PR: MAC 3282, PHY 3048. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.</td>
</tr>
<tr>
<td>EML 3500</td>
<td>MACHINE ANALYSIS AND DESIGN I</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>EML 3701</td>
<td>FLUID SYSTEMS</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>EML 4041</td>
<td>COMPUTER SIMULATION I</td>
<td>(3)</td>
<td>PR: EGN 2210, EGN 4450. Techniques to solve engineering problems using numerical methods and digital computers. Topics include roots of equations, simultaneous linear equations, numerical integration and differentiation, and curve fitting.</td>
</tr>
<tr>
<td>EML 4106</td>
<td>THERMAL SYSTEMS AND ECONOMICS</td>
<td>(3)</td>
<td>PR: EGN 3343. Power and Refrigeration Cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.</td>
</tr>
<tr>
<td>EML 4302</td>
<td>MECHANICAL ENGINEERING LABORATORY II</td>
<td>(3)</td>
<td>PR: EML 3303. Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec/lab. The Team-Project-Time Approach.</td>
</tr>
<tr>
<td>EML 4419</td>
<td>PROPULSION I</td>
<td>(3)</td>
<td>PR: EML 3701, 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.</td>
</tr>
<tr>
<td>EML 4503</td>
<td>MACHINE ANALYSIS AND DESIGN II</td>
<td>(3)</td>
<td>PR: EML 3500, EML 3264. Continuation of EML 3500. Antifriction bearings, journal bearings, power transmission, shafting.</td>
</tr>
<tr>
<td>EML 4551</td>
<td>PROJECT DESIGN I</td>
<td>(3)</td>
<td>PR: EGN 4503. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS and CAD.</td>
</tr>
<tr>
<td>EML 4552</td>
<td>PROJECT DESIGN II</td>
<td>(3)</td>
<td>PR: EML 4551 or CC. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.</td>
</tr>
<tr>
<td>EML 4905</td>
<td>INDEPENDENT STUDY</td>
<td>(1-4)</td>
<td>PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours.</td>
</tr>
</tbody>
</table>
### EML 4930 SPECIAL TOPICS IN MECHANICAL ENGR. I  (1-4)
PR: CC. May be repeated up to 9 credit hours.

### EML 4931 SPECIAL TOPICS IN MECHANICAL ENGR. II  (1-4)
PR: CC. May be repeated up to 9 credit hours.

### EML 5225 ACOUSTICS AND NOISE CONTROL  (3)

### EML 5325 MECHANICAL MANUFACTURING PROCESSES  (3)
PR: CI. Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

### EML 5395 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.

### EML 5930 SPECIAL TOPICS III  (1-4)
PR: CC. May be repeated up to 9 credit hours.

### EML 5931 SPECIAL TOPICS IV  (1-4)
PR: CC. May be repeated up to 9 credit hours.
ART

DANCE

MUSIC

MUSIC EDUCATION
Director: C. P. Doane; Professors: V. A. Bridges, J. J. Heller; Associate Professor: C. P. Doane; Assistant Professor: J. L. S. Moore, J. W. Richmond.

THEATRE

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

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

ARH 4200 MEDIEVAL ART
A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

ARH 4301 RENAISSANCE ART
A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.

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

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

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

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

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

ARH 4796 CRITICAL STUDIES IN ART HISTORY -6A
PR: CI. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.

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

ARH 5333 CULTURAL AND INTELLECTUAL HISTORY OF RENAISSANCE AND BAROQUE ART
A course in which Renaissance and Baroque theories of art are treated as part of general cultural and intellectual history.

ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART
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
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 explanation. (Must be taken during the student's first two semesters in the program.)

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

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

ART 3001 INTRODUCTION TO ART -6A
An expanded introductory treatment of basic concepts. For art majors and non-art majors.

ART 3110C CERAMICS I

ART 3222 INTRODUCTION TO COMPUTER IMAGES
PR: ART 2202 and ART 3001. An introduction to the microcomputer as a tool for the visual arts. The course uses a variety of imaging software, and requires no computer experience. Available to majors and non-majors.

ART 3301C DRAWING I

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

ART 3468 MULTI-MEDIA PRINTMAKING
PR: ART 2202C, ART 3001, ART 3301C. Investigation of Printmaking Media including: monoprinting, collagraph, relief printing and the dimensional print with emphasis on the development of individual concepts.
ART 3469 PHOTO-PRINTMAKING (4) 
PR: ART 2202C, ART 3001, ART 3301C. Investigation of Photo-Printmaking and Darkroom Techniques including: Photo Etching, Photo Screen Printing, Photo Woodcut, and Photogravure with emphasis on development of individual concepts.

ART 3470C 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 3510C 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 3935 STUDIO TECHNIQUES: SELECTED PROJECTS (2) 
PR: Visual Concepts I, II and Introduction to Art and Cl. 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 4223 ADVANCED COMPUTER IMAGES (4) 
PR: ARH 3000, ART 2202, and ART 3222. A continuing study of the micro-computer as a tool for the visual arts. A course in 2-D image creation and manipulation. Available to majors and non-majors.

ART 4224 COMPUTER ANIMATION (4) 
PR: ARH 3000, ART 2202, ART 2203, and ART 3222. A study of computer animation for the creation of art. Includes cel, programmed, and 3-D animation techniques. Available to majors and non-majors.

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

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

ART 4471C INTAGLIO II (4) 
PR: ART 3470C. 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: Cl 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 4111C. 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 5532C 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 5900D 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 topotechnique-related 3000-4000 level studio sequence and Cl. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

FIL 3001C 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 3401C 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 3410C PHOTOGRAPHY II (4) 
PR: PGY 3401C. 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 5425C PHOTOGRAPHY (4) 
PR: CC. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.
DANCE

DAA 2000 THEATRE DANCE STYLES
PR: DAA 2100 or DAA 2200 or 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
To acquaint beginning modern students with fundamentals of dance vocabulary, movement, rhythm and alignment. May be repeated.

DAA 2104 MODERN DANCE II
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.

DAA 2200 FUNDAMENTALS OF BALLET I
To acquaint beginning ballet students with fundamentals of vocabulary, movement, rhythm and alignment. May be repeated.

DAA 2204 BALLET II
PR: Admission by placement 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.

DAA 2300 FUNDAMENTALS OF JAZZ DANCE
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic movement patterns. May be repeated up to 4 credit hours.

DAA 2704 DANCE IMPROVISATION
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 3105 MODERN DANCE III
PR: Admission by placement audition. Continuation of DAA 2104. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May by repeated.

DAA 3205 BALLET III

DAA 3220 BALLET VARIATIONS
PR: DAA 3202. This course provides instruction in various forms of ballet. Semester courses include: Pointe technique, Men's Class, Character Dance, Spanish Dance and Partnering. Ballet majors are required to complete two semester hours. May be repeated.

DAA 3400 REPERTORY
The development and performance of solo and/or group dances. Open to all University students by audition. May be repeated.

DAA 3480 PERFORMANCE
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
PR: Admission by placement audition, DAA 2204 or 2104. 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
PR: Admission by placement 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
Study and execution of basic principles of composition. Preparation of studies in theme and variations, breath phrases and metric phrases. May be repeated.

DAA 3701 CHOREOGRAPHY II
PR: DAA 3700 or CI. Preparation of studies in rhythm, dynamics, form and motivation. May be repeated.

DAA 3800 SPECIALIZED STUDY IN MOVEMENT THEORY AND BODY ALIGNMENT
Analysis of scientific basis of movement for the dancer through the study of body alignment and movement theories related to dance techniques.

DAA 4106 MODERN DANCE IV
PR: Admission by placement audition or CI. Intensive work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

DAA 4206 BALLET IV
PR: Admission by placement audition or CI. 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. May be repeated.

DAA 4702 CHOREOGRAPHY III
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. Lec-lab, reading. Rehearsal hours to be arranged. May be repeated.

DAA 4703 CHOREOGRAPHY IV
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
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 4920 DANCE STUDIES
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.

DAE 4300 THE TEACHING OF DANCE: THEORY AND PRACTICE
PR: CI, CC. Designed to provide prospective dance teachers 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 2100 INTRODUCTION TO DANCE -6A
For majors and non-dance majors, a study of the art and language of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of this art form through discussion, observation, writing (70%), and movement experience (30%).

DAN 2610 MUSIC FOR DANCE I
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 2611 MUSIC FOR DANCE II
PR: DAN 2610 or CI. Elements within historical context. Continued problems in rhythmic materials.

DAN 3590 PRACTICUM IN DANCE PRODUCTION I
A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costume, set preparation, light presentation, stage management
DAN 4111 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. Reading, lecture, and visual aids.

DAN 4112 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 DANSEUR SEMINAR (2)
PR: Senior major status. A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation and projects.

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 will be designed 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

MUC 2221 COMPOSITION (3)
PR: MUN 1112 and Cl. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

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

MUC 3231 COMPOSITION (3)
PR: Necessary competency at MUC 2221 level determined by faculty jury. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 4302 ELECTRONIC MUSIC ANALOG SYNTHESIS (3,3)
PR: MUC 2301 and Cl. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441, 3442 ELECTRONIC MUSIC DIGITAL SYNTHESIS (3,3)
PR: MUC 3401 or 3402 and Cl. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 3601, 3602 CONTEMPORARY TECHNIQUES OF COMPOSITION (3)
PR: CI. Instruction in the use of major Twentieth-Century compositional techniques; tonal unordered set, and serial composition and the use of indeterminacy in composition and performance.

MUC 4241 COMPOSITION (3)
PR: Necessary competency at MUC 3231 level determined by faculty jury. Private instruction in original composition. Required of composition majors. Must be repeated for credit for a minimum of 6 hours for majors.

MUC 4403, 4404 ELECTRONIC MUSIC REAL-TIME PERFORMANCE (3,3)
PR: MUC 3402 and MUC 3442 or equivalent. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4501 SEMINAR IN NEW MUSICAL SYSTEMS (3)
PR: CI. Experimental sound sources and ensemble groupings; creation of new instruments; unfamiliar sonic materials and unique social contexts for music. May be repeated for credit.

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

MUG 4202 CHORAL CONDUCTING (2)
PR: MUG 3101 or its equivalent and Cl. Practical application of conducting techniques to choral works, score study, performance practices, and rehearsal techniques. Class serves as performing group.

MUG 4302 INSTRUMENTAL CONDUCTING (2)
PR: MUG 3101 & Cl. A study of those techniques of conducting unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.

MUY 3015 SURVEY OF JAZZ (2)
An in-depth study of the historical study of jazz, including the representative music, literature, and sociological implications.

MUY 3019 HISTORY OF POPULAR MUSIC (2)
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.

MUY 3300 MUSIC HISTORY / MEDIEVAL AND RENAISSANCE (2)
PR: CI. 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.

MUY 3301 MUSIC HISTORY / BAROQUE AND CLASSIC (3)
PR: CI. 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.

MUY 3302 MUSIC HISTORY / ROMANTIC AND 20TH CENTURY (3)
PR: CI. Required of music majors; a study of the historical development of musical styles of the Romantic and 20th Century periods and of the music of those periods.

MUY 4801 HISTORY OF JAZZ (3)
PR: MUN 1112 or Cl. An in-depth study of the historical development of Jazz, including the representative musical literature and technical implications. (2)

MUL 2111 INTRODUCTION TO MUSIC LITERATURE -6A (3)
PR: MUN 1112 or CI. A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music majors.

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

MUL 3011, 3012 THE ENJOYMENT OF MUSIC (3,3)
Open only to non-music majors; a study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.

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

MUN 3143 WIND ENSEMBLE (1)
MUN 3213 UNIVERSITY ORCHESTRA (1)
MUN 3313 UNIVERSITY SINGERS (1)
MUN 3383 UNIVERSITY-COMMUNITY CHORUS (1)
CHAMBER MUSIC ENSEMBLES (below)
PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano; may be repeated for credit.

MUS 3433 CHAMBER SINGERS
MUN 3411 STRING QUARTET
MUN 3420 SAXOPHONE ENSEMBLE
MUN 3421 FLUTE CHOIR
MUN 3424 WOODWIND ENSEMBLE
MUN 3433 BRASS CHOIR
MUN 3432 HORN QUARTET
MUN 3434 BRASS QUINTET
MUN 3443 PERCUSSION ENSEMBLE
MUN 3444 MARIMBA ENSEMBLE
MUN 3473 COLLEGIUM MUSICUM
MUN 3714 JAZZ CHAMBER ENSEMBLE
MUN 3483 CLASSICAL GUITAR ENSEMBLE
MUS 2010 RECENT ATTENDANCE

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

MUS 4900 DIRECTED READING
PR: Cl and CC. Readings in topic of special interest to the student. Selection of topic and materials must be agreed upon and approval 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
PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 4930 SELECTED TOPICS IN MUSIC
PR: Cl 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
PR: Cl. 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
PR: Cl. To aid majors to understand, appraise and perfect their art through critical and aesthetic judgments of their colleagues. (S/U only.)

MUS 5905 DIRECTED STUDY
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: Cl. 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
MUS 5929 STRING WORKSHOP
MUS 1001 RUDIMENTS OF MUSIC

MUT 1111, 1112 MUSIC THEORY
PR: Cl. 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 2116, 2117 MUSIC THEORY
PR: MUT 1112. Required of music majors, continuation of MUT 2111 and 1112.

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

MUT 4641 SIXTEENTH CENTURY PRACTICE
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
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
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 5051 GRADUATE REVIEW OF MUSIC THEORY
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 does not count toward the graduate degree requirements.

MUT 3201 LANGUAGE DICTION FOR SINGERS
Specialized study in Language Diction for Singers. Specific language varies to be arranged at each course offering. May be repeated for a total of three different languages only. Required of voice performance majors.

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

MVB 1111 KEYBOARD SKILLS I (2)
MVK 1121 KEYBOARD SKILLS II (2)
MVB 2111 KEYBOARD SKILLS III (2)
MVB 2121 KEYBOARD SKILLS IV (2)
MVK 3111 MUSIC MAJORS, LEVEL V (2)
MVB 1811 BEGINNING PIANO I (2)
MVK 1821 BEGINNING PIANO II (2)
MVB 2811 INTERMEDIATE PIANO (2)

APPLIED MUSIC COURSES PRINCIPAL (below)
PR: Cl. 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.

MVB 1311 TRUMPET PRINCIPAL (2)
MVB 1312 FRENCH HORN PRINCIPAL (2)
MVB 1313 TROMBONE PRINCIPAL (2)
MVB 1314 EUPHONIUM PRINCIPAL (2)
MVB 1315 Tuba PRINCIPAL (2)
MVB 1316 VIOLIN PRINCIPAL (2)
MVB 1317 VIOLONCELLO PRINCIPAL (2)
MVB 1318 DOUBLE BASS PRINCIPAL (2)
MVK 1319 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 VIOLONCELLO PRINCIPAL (2)
MVS 1317 DOUBLE BASS PRINCIPAL (2)
MVS 1318 HARP PRINCIPAL (2)
MVS 1319 ORGAN PRINCIPAL (2)
MVP 1311 PERCUSSION PRINCIPAL (2)
MVB 4341 TRUMPET PRINCIPAL (2)
MVB 4342 FRENCH HORN PRINCIPAL (2)
MVB 4343 TROMBONE PRINCIPAL (2)
MVB 4344 EUPHONIUM PRINCIPAL (2)
MVB 4345 Tuba PRINCIPAL (2)
MVB 4346 VIOLIN PRINCIPAL (2)
MVB 4347 VIOLONCELLO PRINCIPAL (2)
MVB 4348 DOUBLE BASS PRINCIPAL (2)
MVB 4349 HARP PRINCIPAL (2)
MVB 4350 ORGAN PRINCIPAL (2)
MVP 4341 PERCUSSION PRINCIPAL (2)
MVS 4341 VIOLIN PRINCIPAL (2)
MVS 4342 VIOLA PRINCIPAL (2)
MVS 4343 VIOLONCELLO PRINCIPAL (2)
MVS 4344 DOUBLE BASS PRINCIPAL (2)
MVS 4345 HARP PRINCIPAL (2)
MVS 4346 VIOLONCELLO PRINCIPAL (2)
### Applied Music Courses (below)

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<th>Course Title</th>
<th>Credits</th>
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<td>MVV 4342</td>
<td>Oboe Principal</td>
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<td>Clarinet Principal</td>
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<tr>
<td>MVW 4344</td>
<td>Bassoon Principal</td>
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</tr>
<tr>
<td>MVW 4345</td>
<td>Saxophone Principal</td>
<td>2</td>
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</tbody>
</table>

### APPLIED MUSIC COURSES (below)

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>MVV 4342</td>
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<td>MVV 4343</td>
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<td>MVW 4344</td>
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<tr>
<td>MVW 4345</td>
<td>Saxophone Principal</td>
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</tbody>
</table>

### APPLIED MUSIC COURSES (below)

PR: Cl. Necessary competency at senior 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. Must be repeated for credit for minimum of 8 hours for majors.

<table>
<thead>
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<th>Credits</th>
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<td>MVV 4342</td>
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<td>MVW 4344</td>
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<tr>
<td>MVW 4345</td>
<td>Saxophone Principal</td>
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</tbody>
</table>

### Music Education (below)

The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MVS 4344</td>
<td>Classical Guitar Major</td>
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<tr>
<td>MVS 4345</td>
<td>Jazz Bass Major</td>
<td>(2)</td>
</tr>
<tr>
<td>MVS 4346</td>
<td>Percussion Major</td>
<td>(2)</td>
</tr>
<tr>
<td>MVS 4347</td>
<td>Viola Major</td>
<td>(2)</td>
</tr>
<tr>
<td>MVS 4348</td>
<td>Violin Major</td>
<td>(2)</td>
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<tr>
<td>MVS 4349</td>
<td>Double Bass Major</td>
<td>(2)</td>
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<td>MVS 4350</td>
<td>Bassoon Major</td>
<td>(2)</td>
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<tr>
<td>MVS 4351</td>
<td>Saxophone Major</td>
<td>(2)</td>
</tr>
</tbody>
</table>

### APPLIED MUSIC COURSES (below)

PR: Cl. 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>MVV 4341</td>
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<td>MVV 4342</td>
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<td>(4)</td>
</tr>
<tr>
<td>MVW 4345</td>
<td>Saxophone Principal</td>
<td>(4)</td>
</tr>
</tbody>
</table>

### Music Studio Pedagogy Courses (below)

PR: Cl. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>MVP 4641</td>
<td>Piano Pedagogy II</td>
<td>(4)</td>
</tr>
</tbody>
</table>

### Master Class Courses (below)

PR: Cl. 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>MVS 5750</td>
<td>Strings, Master Class</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>MUE 3421</td>
<td>CHORAL MATERIALS PRACTICUM</td>
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<tr>
<td>MUE 3422</td>
<td>BAND MATERIALS PRACTICUM</td>
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<tr>
<td>MUE 3423</td>
<td>ORCHESTRA MATERIALS PRACTICUM</td>
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<tr>
<td>MUE 3450</td>
<td>BEGINNING WOODWIND TECHNIQUES</td>
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<td>MUE 3451</td>
<td>ADVANCED WOODWIND TECHNIQUES</td>
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<td>MUE 3460</td>
<td>BEGINNING BRASS TECHNIQUES</td>
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<td>MUE 3461</td>
<td>ADVANCED BRASS TECHNIQUES</td>
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<tr>
<td>MUE 4311</td>
<td>MUSIC IN THE ELEMENTARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>MUE 4321</td>
<td>FOUNDATIONS OF CHORAL MUSIC</td>
<td>2</td>
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<tr>
<td>MUE 4330</td>
<td>CLASSROOM MUSIC IN THE SECONDARY SCHOOL</td>
<td>3</td>
</tr>
<tr>
<td>MUE 4352</td>
<td>FOUNDATIONS OF INSTRUMENTAL MUSIC</td>
<td>2</td>
</tr>
<tr>
<td>MUE 4480</td>
<td>MARCHING BAND TECHNIQUES</td>
<td>2</td>
</tr>
</tbody>
</table>
THE 4330 SHAKESPEARE FOR THE THEATRE (3)
PR: THE 3100. A close study of selected plays with special emphasis on their performance values. Open to upper level non-majors with CI.

THE 4360 THE 19TH CENTURY THEATRE REVOLUTION (3)
PR: THE 3100. Survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity. Open to upper level non-majors with CI.

THE 4401 O'NEILL AND AFTER (3)
PR: THE 3100. A course in the function of the script for the theatre artist in treating materials in the American Theatre from 1915 to 1964. Open to upper-level non-majors with CI.

THE 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE (3)
PR: THE 3100. A study of comedic function in scripts from Greek and Roman, Restoration and French Neoclassic of the late 17th century and other plays from the late 18th and late 19th centuries which reflect similar characteristics. Open to upper level non-majors with CI.

THE 4480 DRAMA-SPECIAL TOPICS (3)
PR: THE 3100. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists. Open to upper level non-majors with CI.

THE 4593 HONORS SEMINAR (2)
Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacoben Theatre. 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. Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill. May not be repeated except under special and unusual circumstances.

THE 4595 HONORS THESIS (1-3)
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors 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)
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 4927 ADVANCED PRODUCTION INVOLVEMENT (1)
PR: THE 3925 or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course. May be repeated. Open to non-majors with CI.

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 5090 DIRECTED STUDIES (1-6)
PR: CI and 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 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)
Required of all theatre majors. The basic materials, equipment, and skills used in scenic construction and painting for theatrical productions. An introductory course with lab. Open to non-majors.

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

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

TPA 3004 MEANS OF VISUAL EXPRESSION (3)
PR: Completion of the four required 2000 level courses. The study of presentation 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 2200 and CI.

TPA 3221 LIGHTING: THEORY AND PRACTICE (3)
PR: TPA 2223 and TPA 3004. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. A requirement in the design track/lighting. Open to upper level non-majors with TPA 2223 and CI.

TPA 3248 WORKSHOP IN STAGE MAKEUP (1)
Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

TPA 3260 SOUND FOR THE STAGE (3)
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 with CI.

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

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

TPA 3840 PUPPETY 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 4020 LIGHT DESIGN (4)
PR: ART 3301C, TPA 3221, TPA 4208 and portfolio review. The aesthetic and practical application of the elements of design in lighting for theatre presentation. A requirement in the design track/lighting.

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

TPA 4060 SCENE DESIGN (4)
PR: TPA 4208, TPA 4265, 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 4077 SCENE PAINTING (2)
PR: TPA 3004. A practical course in the painting of stage scenery, media and application. Open to upper level non-majors with CI.
TPA 4208 Stagewear and Drafting (3)
PR: TPA 3004. A practical course in drafting for the stage, scenic construction and application. A requirement in the design/scenic and lighting. Open to upper level non-majors with CI.

TPA 4231 Costume Construction (3)
PR: TPA 2232 and TPA 3004. A practical course in the drafting of patterns for constructing the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, coifery; both period and modern. Open to upper level non-majors with CI.

TTP 4273 Stage Properties: Techniques and Materials Studio (2)
PR: TPA 3004. Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic techniques. Organization of shop. Open to upper level non-majors with CI.

TPP 2110 Voice-Body-Improvisation (3)
Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

TTP 3111 Workshop for Text Analysis (3)
PR: Completion of the four required 2000 level theatre courses. An introduction to the analysis of distinct styles of plays, normally to include at least one contemporary realistic play and one classical play. Focus will be on the actor’s or director’s close reading of a script as a preparation for performance. Required of all theatre majors. Open to non-majors with TPP 2110 and CI.

TTP 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.

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

TTP 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 (ethic, 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.

TTP 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. Required of all theatre majors with a performance concentration. May be repeated for credit. Open to upper level non-majors with CI.

TTP 3580 Special Skills in Movement (2)
PR: TTP 3500. Stage combat, circus and acrobatic techniques, and other special techniques of movement. May be repeated for credit. Open to upper level non-majors with CI.

TTP 3790 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. Required of all theatre majors with a performance concentration. May be repeated for credit. Open to upper level non-majors with CI.

TTP 4140 Styles of Acting (3)
PR: TTP 4150 or TTP 4230, 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.

TTP 4150 Scene Study I (3)
PR: TTP 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.

TTP 4152 Scene Study II (3)
PR: TTP 4150 Intermediate scene study. Required of all theatre majors with a performance concentration.

TTP 4180 Advanced Scene Study (3)
PR: TTP 4140 and audition. The aesthetics of acting. The various theories of art. A studio course. Required of all theatre majors with a performance concentration.

TTP 4220 Audition Workshop for the Actor (2)
PR: TTP 4150 or TTP 4230. Preparation for professional audition; discussion of professional objectives. Open to upper level non-majors with CI.

TTP 4230 Laboratory Workshop in Performance (3)
PR: TTP 3111 and audition. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (for a total of 9 hours credit). Open to upper level non-majors with CI.

TTP 4250 Music Theatre Workshop (3)
PR: TTP 3111. Special problems in acting as applied to the musical theatre with emphasis on singing and dance. Open to upper level non-majors with CI.

TTP 4310, 4311 Directing I, II (3,3)
PR: TTP 4140 or TTP 4230. 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 piece.

TTP 4600 Writing for the Theatre I (3)
PR: THE 3100, TPA 3004, and TTP 3111. An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes. May be repeated for credit. Open to upper level non-majors with CI.

TTP 4920 Senior Workshop for Actors (3)
PR: TTP 4152, TTP 3500, TTP 3790. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.
NUR 2201 NUTRITION  
PR: Course work in chemistry and biology or permission of faculty. Open to majors and non-majors. The study of fundamental principles of nutrition as they relate to human health and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.

NUR 3007 NURSING PROCESS  
PR: RN student. PR or COR: NUR 3066C. This course focuses on the nursing process and explores in depth the five phases: assessment, analysis, planning, implementation, and evaluation, as they apply to the care of clients.

NUR 3067C INTRODUCTION TO COMMUNITY HEALTH NURSING ASSESSMENT I  
PR: Permission of faculty. Focus is on application of history taking and physical appraisal skills basic to biopsychosocial assessment across the life span. Emphasizes assessment phase of the nursing process and the use of skills and findings in the provision of nursing care.

NUR 3067C INTRODUCTION TO COMMUNITY HEALTH NURSING ASSESSMENT II  
PR: Admission to Nursing major or permission of faculty. Focuses on theories, concepts and principles essential to the nursing care of families across the life span in primary care settings. Emphasis is on prevention, health promotion and health maintenance.

NUR 3117 INTRODUCTION TO PROFESSIONAL NURSING  
PR: Admission to nursing major or permission of faculty. Introduction to: historical development, philosophical, conceptual and theoretical bases of professional nursing; evolving roles and responsibilities of nurses; socio-economic-political-legal-ethical aspects; the health care system; issues and trends in health care and nursing.

NUR 3456 NURSING PROCESS II  
PR: NUR 3117, 3066C, 3067C, 3615, 3615L. Focuses on theories, concepts and principles essential to the nursing care of children. During normal intrapartal and postpartum experiences, and selected high risk childbearing situations.

NUR 3456L NURSING INTERVENTION II  
PR: NUR 3117, 3066C, 3067C, 3615, 3615L. Clinical nursing practice course linked with NUR 3456. Focuses on nursing of normal and selected high-risk maternal/newborn clients during normal intrapartal and postpartal parenting experiences, and selected high risk childbearing situations.

NUR 3536 NURSING PROCESS III  
PR: NUR 3117, 3066C, 3067C, 3615, 3615L. Explores the nursing process as it relates to the psychosocial-mental health needs of clients across the life span. Psychopathology, psychopharmacology, nutrition, community mental health, growth and development, and other pertinent theories and concepts are integrated.

NUR 3536L NURSING INTERVENTION III  
PR: NUR 3117, 3066C, 3067C, 3615, 3615L. Clinical intervention based on the nurse-client relationship. Provides opportunities to apply knowledge from growth and development, biopsychosocial and to explore use of self for therapeutic communication and interpersonal relationships with clients in psychiatric/mental health nursing.

NUR 3615 NURSING PROCESS I  
PR: Admission to the Nursing major or permission of faculty. Introduction to the nursing process and its application with clients in primary, secondary and tertiary care settings. Focuses on the nursing process and concepts basic to nursing practice. Concepts from physical, natural and social sciences are integrated.

NUR 3615L NURSING INTERVENTION I  
PR: NUR 3066C or concurrent. Introduction to clinical nursing practice in primary and secondary care settings. Focus is on beginning application of the nursing process with clients across the life span, and the practice of psychomotor and psychosocial skills.

NUR 3706 NURSING CONCEPTS IN SECONDARY CARE  
PR: RN student; CI. The focus of this course is on the concepts, theory, and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

NUR 3706L NURSING PROGRAM I  
PR: RN student; CI. The focus of this course is on the implementation of concepts, theory and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

NUR 3829 ETHICAL-LEGAL ASPECTS IN NURSING AND HEALTH CARE  
PR: Permission of faculty. Introduction to contemporary biocultural and legal issues facing health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

NUR 3835 LEADERSHIP MANAGEMENT ASPECTS IN COMMUNITY HEALTH NURSING  
PR: NUR 3067C and 4256L. Focuses on nursing concepts and theories underlying community/public health. Explores the evolving, autonomous and leadership roles of the community health nurse and the socio-political-economic environments that impact nursing practice in the community health care system.

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

NUR 4165 INTRODUCTION TO RESEARCH  
PR: Permission of faculty. Introduction to nursing research with focus on the steps of the research process and the identification of researchable problems in nursing practice.

NUR 4256 NURSING PROCESS IV  
PR: NUR 3456, 3456L, 3536, and 3536L. Concurrent with NUR 4256L. Focus on nursing care of clients across the life span in secondary and tertiary care settings. Emphasis is on interferences cell growth and proliferation, alterations in metabolic, regulatory mechanisms and elimination. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4256L NURSING INTERVENTION IV  
PR: NUR 3456, 3456L, 3536, and 3536L. Concurrent with NUR 4256L. Focus on nursing care of clients across the life span in secondary and tertiary care settings. Emphasis is on interferences cell growth and proliferation and with interferences in metabolic, regulatory mechanisms and elimination. Includes psychomotor skills.

NUR 4257 NURSING PROCESS V  

NUR 4257L NURSING INTERVENTION V  
PR: NUR 4256L and 4256L. Concurrent with NUR 4257L, 4258, and 4265. Clinical nursing practice in secondary, tertiary and community health care settings with clients of all age groups. Focus
includes care of clients with interferences in metabolic and regulatory mechanisms, elimination, reproductive system function, oxygenation, mobility and sensory function. Includes essential psychomotor skills.

NUR 4258 NURSING PROCESS VII (2) PR: NUR 4256 and 4256L. Concurrent with NUR 4257, 4257L, and 4165. Focus on nursing care of clients (across the life span) in secondary and tertiary care settings with interferences in oxygenation. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4265 NURSING PROCESS VIII (2) PR: NUR 4256, 4256L. Concurrent with NUR 4257, 4257L, and 4258, Focus on nursing care of clients (across the life span) in secondary and tertiary care settings with selected interferences in mobility and sensory perception. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4285C NURSING PROCESS IV (1) PR: NUR 3456, 3456L, 3536, and 3536L. Nursing of the well elderly in primary care settings. Includes aging theories; biopsychosocial assessment; therapeutic relationships; nutritional, psychosocial, and socio-economic factors related to the health of the elderly.

NUR 4707 NURSING CONCEPTS IN PRIMARY CARE (4) PR: RN student; CI. Focuses on concepts and principles essential to nursing clients across the life span in the community setting.

NUR 4707L NURSING PRACTICUM II (3) PR: RN; CI. Integrates the concepts and content from NUR 4707 with clients across the life span into clinical settings which include public health agencies, VNA, and home health agencies.

NUR 4792 SEXUALLY TRANSMITTED DISEASES AND HIV INFECTION (2) Open to students and caregivers in health related fields. Examines prevalent sexually transmitted diseases and HIV infection from a nursing perspective. Emphasis is on epidemiologic principles, immunology, treatment, prevention, and ethical/legal considerations.

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

NUR 4837 LEADERSHIP/MANAGEMENT AND ROLE TRANSITION (3) PR: NUR 4257L. Provides opportunities to apply principles of leadership and management to current practice as experienced in the preceptorship, to explore roles of the various health team members, to analyze legal/ethical parameters of current practice and to examine one’s philosophy of nursing and its implications for practice.

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

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

NUR 4938 HONORS SEMINAR (4) PR: Acceptance into the honors program in nursing and CI. The Honors Seminar is designed to provide selected students with an opportunity to explore major works of nursing in-depth and to present, discuss, and defend a proposal for a research project.

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

NUR 4946L PRECEPTORSHIP (6) PR: NUR 4257, 4257L, 4258, 4266. Concentrated clinical nursing practice (preceptorship) under faculty guidance. The nature an goals of the experience will be determined collaboratively by students, faculty and personnel from cooperating agencies where students elect experience.

NUR 4975 HONORS THESIS (2) PR: Honors Seminar and CI. The student under the supervision of a faculty advisor will formalize, conduct, analyze and report in writing and orally a research project in nursing. May be repeated up to 2 credit hours.
## 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>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>HSC 4203</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>(3)</td>
<td>PR: Fundamentals of biology with lab or CI. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught.</td>
</tr>
<tr>
<td>HSC 4554</td>
<td>SURVEY OF HUMAN DISEASES</td>
<td>(3)</td>
<td>PR: Fundamentals of Biology with lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.</td>
</tr>
<tr>
<td>HSC 4933</td>
<td>SPECIAL TOPICS: PUBLIC HEALTH</td>
<td>(1-6)</td>
<td>PR: CI. The content of this course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.</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>
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State Board of Education

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Pensacola

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Student Regent

JON C. MOYLE (1997)*
West Palm Beach

ELIZABETH G. LINDSAY (1998)*
Sarasota

CHARLES B. REED
Chancellor

*term expires
### OFFICE OF THE PRESIDENT

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<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>President</td>
<td>FRANCIS T. BORKOWSKI</td>
</tr>
<tr>
<td>Special Assistant to the President</td>
<td>SPURGEON DAVID STAMPS</td>
</tr>
<tr>
<td>Special Assistant to the President for</td>
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</tr>
<tr>
<td>Women’s Issues</td>
<td>TBA</td>
</tr>
<tr>
<td>Assistant to the President</td>
<td>DONNA PARRINO</td>
</tr>
<tr>
<td>Director, Intercollegiate Athletics</td>
<td>PAUL GRIFFIN</td>
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### HEALTH SCIENCE CENTER

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Executive Associate Vice President</td>
<td>RONALD P. KAUFMAN</td>
</tr>
<tr>
<td>Associate Vice President, Medical Affairs</td>
<td>GREGORY R. NICOLOSI</td>
</tr>
<tr>
<td>Assistant Vice President, Medical Affairs</td>
<td>JAMES E. HARTFIELD</td>
</tr>
<tr>
<td>Associate Vice President, Health Affairs</td>
<td>RHANDAL N. SMART</td>
</tr>
<tr>
<td>Associate Vice President, Development and Alumni Affairs</td>
<td>JOHN C. MELENDI</td>
</tr>
<tr>
<td>Associate Vice President, Planning</td>
<td>HARRY F. MILLER</td>
</tr>
<tr>
<td>Assistant Vice President, Health Affairs</td>
<td>DANIEL G. ZABEL</td>
</tr>
<tr>
<td>Directors:</td>
<td>LARRY A. BAUDOIN</td>
</tr>
<tr>
<td>Laboratory Animal Medicine</td>
<td>LOUIS R. NELSON</td>
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<tr>
<td>Medical Center Library</td>
<td>BEVERLY SHATTUCK</td>
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<tr>
<td>Personnel</td>
<td>SUZANNE M. FLEAG</td>
</tr>
<tr>
<td>Public Affairs</td>
<td>WILLIAM BULGER</td>
</tr>
<tr>
<td>Plant Operations &amp; Maintenance</td>
<td>GEORGE R. CHAVEZ</td>
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</table>

### College of Medicine

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Dean</td>
<td>MARVIN R. DUNN</td>
</tr>
<tr>
<td>Associate Dean for Clinical Affairs</td>
<td>JAMES E. HARTFIELD</td>
</tr>
<tr>
<td>Associate Dean for Continuing</td>
<td>PIERRE J. BOUSIS, JR.</td>
</tr>
<tr>
<td>Medical Education and Affirmative</td>
<td>RANDOLPH MANNING</td>
</tr>
<tr>
<td>Action Affairs</td>
<td>JOSEPH J. KRZENOWSKI, JR.</td>
</tr>
<tr>
<td>Associate Dean for Student Affairs</td>
<td>THOMAS E. MCKELL</td>
</tr>
<tr>
<td>Associate Dean for Research and</td>
<td></td>
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<tr>
<td>Graduate Affairs (Acting)</td>
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<tr>
<td>Associate Dean for Tampa General Hospital</td>
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<tr>
<td>Anatomy</td>
<td>JOHANNES A. G. RHODIN</td>
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<tr>
<td>Family Medicine (Acting)</td>
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<td>Pediatrics</td>
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### ACADEMIC AFFAIRS

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<td>Student Admissions</td>
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<td>Suncoast Gerontology Center</td>
<td>ERIC PFEIFFER</td>
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<td>Diabetes Center</td>
<td>JOHN I. MALONE</td>
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### College of Nursing

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<tr>
<td>Dean</td>
<td>JUDITH A. PLAWECKI</td>
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<tr>
<td>Assistant Dean for Undergraduate Studies</td>
<td>CECILE A. LENGACHER</td>
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<td>Assistant Dean for Student Affairs</td>
<td>PATRICIA A. GORZKA</td>
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<td>Director</td>
<td>BARBARA A. REDDING</td>
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### College of Public Health

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<td>Provost</td>
<td>GERRY M. MEISELS</td>
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<tr>
<td>Vice Provost</td>
<td>JOHN S. HODGSON</td>
</tr>
<tr>
<td>Associate Provost</td>
<td>TENNYSN J. WRIGHT</td>
</tr>
<tr>
<td>Assistant Provost</td>
<td>BERNARD A. MACKY</td>
</tr>
<tr>
<td>Associate Vice President, Information Resources</td>
<td>ANN E. PRENTICE</td>
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<tr>
<td>Associate Vice President, Academic Resource Planning</td>
<td>CAROL ROLF</td>
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<tr>
<td>Assistant Vice President for Admissions &amp; Records and University Registrar</td>
<td>LINDA ERICKSON</td>
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### College of Arts and Sciences

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<td>Associate Dean</td>
<td>ROLLIN C. RICHMOND</td>
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<tr>
<td>Associate Dean</td>
<td>CURTIS W. WIENERK</td>
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<tr>
<td>Associate Dean</td>
<td>DARRELL J. FASCHING</td>
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<tr>
<td>Assistant Dean</td>
<td>MARILYN MYERSON</td>
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<td>Assistant to the Dean</td>
<td>TBA</td>
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<tr>
<td>Coordinator of Advising</td>
<td>CARMEN S. BURTON</td>
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<tr>
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<td>ALBERT A. LATINA</td>
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Chairpersons:
American Studies
Anthropology
Biology
Chemistry
Classics
Communication
Communication Science & Disorders
Criminology
Economics (Acting)
English
Geography
Geology
Gerontology
Government and International Affairs
History
Humanities
Marine Science
Mathematics
Philosophy
Women's Studies

Directors:
Bachelor of Independent Studies
Botanical Gardens
Herbarium
Language, Division of
Mass Communications, School of
Medical Technology
Social Work, School of
Health Professions Advising Committee

Program Director:
African and Afro-American Studies

College of Business Administration

Dean
Associate Dean of Administration and Director of Undergraduate Studies
Assistant Dean of Graduate Studies and Research
Academic Director of Executive MBA Program

Chairpersons:
Economics
Finance
Information Systems/Decision Sciences
Management
Marketing (Acting)

Directors:
School of Accountancy
Center for Economic and Management Research
Small Business Development
Professional Development Center
Center for Economic Education

Center for Organizational Effectiveness
Institute For Banking and Finance
Development
Institute for Information Systems Management

College of Education

Dean
Associate Dean, Administration
Associate Dean, Programs
Asst. Dean, Community Relations
Asst. Dean, Clinical Studies and Academic Advising

Chairpersons:
Adult and Vocational Education
Childhood/Language Arts/Reading Education
Educational Leadership
Educational Measurement / Research
Music Education
Physical Education
Psychological and Social Foundations
Secondary Education
Special Education

Directors:
Academic Computing
Center for Economic Education
Children's Center
Florida Center of Instructional Computing (Acting)
Graduate Studies
Sponsored Programs & Program Review
Institute for Instructional Research and Practice
Institute for At-Risk Infants, Children and Youth and their Families
National Resource Center for Middle Grades Education (Acting)
School Management Institute
South Florida Educational Planning Council Director
Clinical Education & Student Personnel
SunCoast Area Teacher Education Center
West Central Regional Management Network
SunCoast Area Teacher Training Center for Excellence Research Program

College of Engineering

Dean
Associate Dean for Academics
Associate Dean for Computing Services
Associate Dean for Research
Assistant Dean

Chairpersons:
American Studies
Chemistry
Classics
Communication
Communication Science & Disorders
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SunCoast Area Teacher Training Center for Excellence Research Program

College of Engineering

Dean
Associate Dean for Academics
Associate Dean for Computing Services
Assistant Dean for Research
Assistant Dean
## University of South Florida - 1992/93 Undergraduate Catalog

### Organization & Personnel

#### Chairpersons:
- Chemical Engineering: CARLOS A. SMITH
- Civil Engineering: WAYNE F. ECHELBERGER, JR.
- Computer Science and Engineering: ABRAHAM KANDEL
- Electrical Engineering: ELIAS K. STEFANAKOS
- Industrial and Management Systems Engineering: PAUL E. GIVENS
- Mechanical Engineering: RONALD H. HOWELL

#### School of Continuing Education
- Dean (Acting): RICHARD TAYLOR
- Directors:
  - Administration: LYNN ROBERTS
  - Division of Lifelong Learning: LEE LEAVENGOOD
  - Conferences and Institutes: LAURA ELLENBURG
  - Information Services: NANCY KUTCHER
  - Division of Special Programs (Acting): CAROL HARNETT
  - Travel-Study: JULIE HALE
  - Community Music: JUDITH CATALDO
- College of Arts and Sciences:
  - International Language Institute: CAROL CARGILL
  - MERIT: YVONNE CADIZ
- College of Business Administration:
  - Center for Organizational Effectiveness: HAROLD M. SCHRODER
  - Center for Professional Development: MARYANNE M. ROUSE
  - Executive MBA: MARYANNE M. ROUSE

#### College of Fine Arts
- Dean: JOHN L. SMITH
- Associate Dean: VIRGINIA BRIDGES
- Chairpersons:
  - Art (Acting): THOMAS MCLAUGHLIN
  - Dance: TIMOTHY WILSON
  - Music: JACK HELLER
  - Theatre (Acting): CHRISTOPHER STEELE/BARTON LEE
  - USF Contemporary Art Museum: MARGARET MILLER
- Directors:
  - Development (Acting): STEVE BRAGIN
  - Media/Public Relations: TBA
  - SYCOM: PAUL RELLER
- Coordinator:
  - Fine Arts Events: CARL MUSSON
  - Production: PATRICK FINELLI
  - Program for Research in Arts and Technology (PRAT): JOSEPH DeLAPPE

#### Florida Mental Health Institute
- Dean: MAX C. DERTKE
- Associate Dean: TBA
- Assistant Dean: CYNTHIA J. STARK
- Director, Administration: FRANCIS M. PARIS
- Chairpersons:
  - Department of Aging & Mental Health: LARRY SCHONFELD
  - Department of Child & Family Studies: ROBERT M. FRIEDMAN
  - Department of Community Mental Health: MICHAEL KNOX
  - Department of Law & Mental Health (Acting): NORMAN POTHRESS

#### Graduate School
- Dean (Interim): RICHARD L. MANSSELL
- Chair, USF Press Editorial Board: RICHARD F. DIETRICH

#### Undergraduate Studies
- Dean: WILLIAM H. SCHEUERLE
- Associate Dean: TBA
- Assistant Dean for Special Programs: STUART SILVERMAN
- Director, Career Resource Center: GLENDA F. LENTZ
- Director, Community College Relations: WILLIAM J. CROCKER
- Director, Evaluation and Testing: TERESA FLATEBY
- Director, Orientation: CYNTHIA A. SWARTZFAGER
- Program Director, Project Thrust: MACK DAVIS
- Program Director, Student Academic Support Services: JANE REED
- Coordinator, Academic Advising: SYLVIA SALTER
- Coordinator, Athletics Advising: KATHERINE MILLER
- Coordinator, Academic Services for Student with Disabilities: ROBERTA ARMSTRONG
- Coordinator, Off-Campus Term Program: D. KEITH LUPTON
- Coordinator, Personal Excellence Program: TBA
- Coordinator, Student Support Services: JOAN HOLMES
- Air Force ROTC: Lt. Col. CLEMMONS E. UPTMOR
- Army ROTC: LT COL HOWARD M. ABNEY

#### USF at Fort Myers
- Campus Dean and Executive Officer: JAMES A. DUPLASS
- Associate Dean for Academic Affairs: ROY A. BOGGS
- Director, Administration and Finance: GLENN E. NITSCHKE
ORGANIZATION AND PERSONNEL

UNIVERSITY OF SOUTH FLORIDA - 1992/93 UNDERGRADUATE CATALOG

**USF at Sarasota**

<table>
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<tbody>
<tr>
<td>Director, Student Affairs (Acting)</td>
<td>LINDA SUMMERS</td>
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<tr>
<td>Director, Enrollment Services (Acting)</td>
<td>DONNA FEICK</td>
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<tr>
<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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**Dean and Executive Officer of USF - Sarasota**

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<tr>
<td>Associate Dean</td>
<td>DAVID P. SCHENCK</td>
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<td>PAUL E. MCLENDON</td>
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<td>Director, Administrative Affairs</td>
<td>JOAN PELLAND</td>
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<tr>
<td>Director, Development</td>
<td>LYNDI A. BLOCK HILL</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, Police Services for Regional Campuses</td>
<td>WILLIAM F. KELLY</td>
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<tr>
<td>Associate Director, Public Affairs</td>
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<td>Director, Records and Registration</td>
<td>NANCY E. FERRARO</td>
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<td>ANNE FISHER</td>
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**New College of USF**

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<td>Director, Special Project Development</td>
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<td>Director, New College Admissions</td>
<td>ARTHUR McA. MILLER</td>
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<tr>
<td>Humanities</td>
<td>SOO BONG CHAE</td>
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<td>Natural Sciences</td>
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<td>Social Sciences</td>
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**USF at St. Petersburg**

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<tr>
<td>Campus Dean (Interim)</td>
<td>WINSTON T. BRIDGES, JR.</td>
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<tr>
<td>Associate Dean, Academic Affairs</td>
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</tr>
<tr>
<td>Director, Administration &amp; Finance</td>
<td>HERMAN J. BRAMES</td>
</tr>
<tr>
<td>Director, Development (Interim)</td>
<td>JULIE GILLESPI</td>
</tr>
<tr>
<td>Director, Poynter Library (Interim)</td>
<td>JANETH SHEWMAKER</td>
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<tr>
<td>Director, Student Affairs</td>
<td>STEPHEN RITCH</td>
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**USF at Lakeland**

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<tr>
<td>Center Director and Executive Officer</td>
<td>YVONNE L. RALSTON</td>
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<tr>
<td>Director, Academic Support Services</td>
<td>PATRICIA MARTINI</td>
</tr>
<tr>
<td>Director, Business, Finance, and Auxiliary Services</td>
<td>ANNE FLAHIVE</td>
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**OFFICE OF THE EXECUTIVE VICE PRESIDENT**

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<tbody>
<tr>
<td>Executive Vice President</td>
<td>ALBERT C. HARTLEY</td>
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**ADMINISTRATIVE AFFAIRS**

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<tr>
<td>Vice President</td>
<td>RICKARD C. FENDER</td>
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<tr>
<td>Associate Vice President</td>
<td>PAULA N. KNAUS</td>
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<tr>
<td>Associate Vice President</td>
<td>CLAIRE S. ROBINSON</td>
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<tr>
<td>Executive Assistant to the Vice President</td>
<td>FREDERICK W. VINCENT</td>
</tr>
<tr>
<td>Executive Assistant to the Vice President</td>
<td>LINDA G. LYDIC</td>
</tr>
<tr>
<td>Director, Environmental Health and Safety</td>
<td>SEDDON L. CAREY</td>
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<tr>
<td>Director, Equal Opportunity Affairs</td>
<td>WILMA L. SMITH</td>
</tr>
<tr>
<td>Director, Facilities Planning</td>
<td>EMMA E. MACARI</td>
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<tr>
<td>Director, Finance &amp; Accounting</td>
<td>ERIC L. WALDEN</td>
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<tr>
<td>Director, Human Resource Development</td>
<td>SANDRA M. COOPER</td>
</tr>
<tr>
<td>Director, Resource Analysis &amp; Planning</td>
<td>JON BLADES</td>
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<tr>
<td>Director, Physical Plant</td>
<td>ADRIAN CUARTA</td>
</tr>
<tr>
<td>Director, Purchasing</td>
<td>A. KEITH SIMMONS</td>
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<tr>
<td>Director, Public Safety</td>
<td>PAUL A. URAVICH</td>
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<tr>
<td>Director, University Budgets</td>
<td>JAY KARP</td>
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<tr>
<td>Director, University Computing Services</td>
<td>CHARLES E. FISHER</td>
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<tr>
<td>Director, University Personnel Relations</td>
<td>TRUDIE E. FRECKER</td>
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**DEVELOPMENT AND ALUMNI**

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<tr>
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**OFFICE OF THE GENERAL COUNSEL**

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<tbody>
<tr>
<td>General Counsel</td>
<td>BRYAN S. BURGESS</td>
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<td>Senior Counsel</td>
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<td>Associate General Counsel</td>
<td>WENDY J. THOMPSON</td>
</tr>
<tr>
<td>Assistant General Counsel</td>
<td>TERRY WIMBISH</td>
</tr>
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**OFFICE OF RESEARCH**

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<tr>
<th>Office/Role</th>
<th>Name</th>
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<tr>
<td>Vice President</td>
<td>GEORGE R. NEWKOME</td>
</tr>
<tr>
<td>Director, Sponsored Research</td>
<td>RICHARD B. STREETER</td>
</tr>
<tr>
<td>Director, Technology Transfer</td>
<td>KENNETH G. PRESTON</td>
</tr>
<tr>
<td>Director, Graphicstudio</td>
<td>ALAN EAKER</td>
</tr>
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**STUDENT AFFAIRS**

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<tr>
<th>Office/Role</th>
<th>Name</th>
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<tr>
<td>Vice President (Interim)</td>
<td>BARBARA R. SHERMAN</td>
</tr>
<tr>
<td>Associate Vice President</td>
<td>CHARLES F. HEWITT</td>
</tr>
<tr>
<td>and Dean of Students</td>
<td>RAYMOND C. KING</td>
</tr>
</tbody>
</table>
### Associate Dean of Students
- TROY COLLIER
- WANDA LEWIS-CAMPBELL
- VANESSA DIAZ-BETTEN

### Director, University Center
- PHYLIS MARSHALL

### Coordinator, Veteran Affairs
- MEREDITH NICKLES

### PUBLIC AFFAIRS

**Vice President**
- J. MARK LONO

**Director, Community Relations**
- ANN ROSS

**Director, Media Relations & Publications**
- DANIEL CASSEDAY

**General Manager, Public Broadcasting**
- JAMES B. HECK
### FACULTY

All members of the University of South Florida faculty 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. (A semicolon between degrees indicates different institutions.) [* Charter faculty]

**AANGEBBURG, ROBERT**, Chairperson-Professor (Geography), 1989  
*B.S.; M.S.; Ph.D., University of Wisconsin, 1965*

**ABNEY, HOWARD M., Jr., LTC, Professor (Military Science), 1988**  
*B.S.; M.E., Ed.S., University of Georgia, 1983*

**ACEREDO-DUNCAN, MILDRED E.C., Visiting Assistant Professor (Neurology), 1991**  
*B.A.; M.A., Ph.D., University of California, 1983*

**ACHENBACK, KARLE.**, Visiting Associate Professor (Law and Mental Health), 1979  
*B.A.; Ph.D., University of Florida, 1966*

**ACKERMANN, JOHN R., Professor (Surgery), 1983**  
*M.B., C.H.D., M.D., University of Cape Town, South Africa, 1965*

**ADAIR, W. LEE, JR., Professor (Biochemistry), 1975**  
*Sc.B.; Ph.D, Georgetown University, 1972*

**ADELMAN, HAROLD M., Associate Professor (Internal Medicine), 1988**  
*B.A.; M.D., Bologna University, 1969*

**AEKERT, JEAN H., Visiting Instructor (Public Sector Medicine-Nursing), 1985**  
*B.S.; M.S.N., University of South Florida, 1984*

**AGOSTI, STEVEN J., Assistant Professor (Pathology), 1990**  
*B.S.; M.D., Medical College of Virginia, 1985*

**AL-ARIAN, SAMI A., Assistant Professor (Computer Science and Engineering), 1986**  
*B.S.; M.S., Ph.D., North Carolina State University, 1985*

**ALBERS, MICHELLE M., Visiting Assistant Professor (Nursing), 1987**  
*B.A.; M.S., Ph.D., Ohio State University, 1987*

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

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

**ALBERTS, TERRANCE L., Chairperson-Professor (Communication), 1991**  
*B.A.; M.A., M.L.I.R., Ph.D., Michigan State University, 1978*

**ALBRINK, MICHAEL H., Assistant Professor (Surgery), 1989**  
*B.S.; M.D., Ohio State University, 1978*

**ALEXANDER, LILLIA, Assistant In Research (Suncoast Gerontology Center), 1987**  
*B.A.; M.A., University of Colorado, 1980*

**ALEXANDER, MARY B., Assistant Professor (Information Systems & Decision Sciences), 1988**  
*B.A.; M.A., M.B.A., Ph.D., Indiana University, 1989*

**ALLEN, HAROLD C., Associate Professor (Information Systems & Decision Sciences), 1967**  
*B.A.; M.B.A., Ph.D., University of Florida, 1969*

**ALLMON, WARREN D., Assistant Professor (Geology), 1988**  
*A.B.; Ph.D., Harvard University, 1988*

**ALLYN, JANET F., Visiting Director (Child Development), 1977**  
*B.A.; M.A., University of South Florida, 1974*

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

**ALVAREZ, MARVIN R., Professor-Chairperson (Biology), 1966**  
*B.S.; M.S., Ph.D., University of Florida, 1964*

**AMEN, MICHAEL J., Associate Professor (Government and International Affairs), 1982**  
*B.A.; M.A.; Ph.D., University of Geneva, 1976*

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

**ANDERSON, DONNA J., Assistant Professor (Psychological and Social Foundations), 1987**  
*B.A.; M.A., Ed.S., Ph.D., University of South Florida, 1984*

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

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

**ANDERSON ROBERT L., Associate Dean (Business Administration) - Professor (Marketing), 1971**  
*B.S.; M.S., Ph.D., North Texas State University, 1971*

**ANDREWS, ANTHONY P., Chairperson-Professor (Social Sciences), New College of USE, 1981**  
*B.A.; M.A., Ph.D., University of Arizona, 1980*

**ANGEL, JEFFREY L., Associate Professor (Obstetrics and Gynecology), 1984**  
*B.S.; M.D., University of South Florida, 1980*

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

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

**ANTHONY-DAVIS, BRENDA, Visiting Instructor (African and Afro-American Studies), 1984**  
*B.S.; M.A., Antioch University, 1984*

**ANTON, JOHN P., Professor (Philosophy), 1982**  
*B.S.; M.A., Ph.D., Columbia University, 1954*

**APFELBECK, NORMA R., Visiting Assistant Professor (College Administration), 1989**  
*B.A.; M.A., Johns University, 1990*

**ARENDAH, GARY W., Associate Professor (Biology), 1981**  
*B.S.; Ph.D., University of California, San Francisco, 1978*

**ARHAR, JOANNE M., Assistant Professor (Education Leadership), 1990**  
*B.A.; M.A.; Ed.D., University of Cincinnati, 1990*

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

**ARMSTRONG, ROBERTA M., Coordinator (Undergraduate Studies), 1987**  
*B.A.; M.A., University of South Florida, 1987*

**ARNADE, CHARLES W., Professor (Government and International Affairs), 1961**  
*A.B., M.A., Ph.D., University of Florida, 1955*

**ARNOLD, DEBORAH, Counselor/Advisor (Undergraduate Studies), 1989**  
*B.A.; M.Ed., University of Florida, 1981*

**ARGENTON, JOHN A., Visiting Assistant Professor (Radiology), 1991**  
*B.A.; M.D., University of South Florida, 1983*

**ARGUS, HELEN, University Librarian (University Libraries), St. Petersburg Campus, 1982**  
*B.A.; M.S.L.S., Simmons College, 1973*

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

**ATHAN, STEPHAN, Associate In (Engineering), 1989**  
*B.S.E.E., University of South Florida, 1980*

**AUBEL, JOSEPH L., Associate Professor (Physics), 1964**  
*B.S., Ph.D., Michigan State University, 1964*

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

**AUSBON, WILLIAM W., Visiting Professor (Pediatrics), 1982**  
*B.A.; M.D., Medical College of Alabama, 1956*

**AUSTIN, RICHARD A., Assistant Professor (Secondary Education), 1990**  
*B.S.; M.E.D., Ph.D., University of Florida, 1983*

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

**Babdul, ADDAGATLA J.G., Assistant Professor (Industrial & Management Systems), 1985**  
*B.S.; M.S.; M.A.; M.S.O.R.; Ph.D., Southern Methodist University, 1980*

**Bachman, ELIZABETH A., Assistant In (Center for Urban Transportation Research), 1991**  
*B.A.; M.P.A., Indiana University, 1983*

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

**Baer, ROBERTA D., Associate Professor (Anthropology), 1984**  
*B.A.; M.A.; Ph.D., University of Arizona, 1984*
BAGLEY, DANIEL S., III, Associate Professor (Mass Communications), 1979
B.S.; M.B.A.; Ph.D., University of Tennessee, 1977
BAILE, WALTER F., JR., Associate Professor (Psychiatry), 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
BAKER, GREGORY R., Research Assistant Professor (Chemistry), 1989
B.S.; Ph.D., Louisiana State University, 1989
BALFOUR, ALAN, Associate Professor (Management), St. Petersburg Campus, 1980
B.A.; M.L.I.R.; J.D.; Ph.D., Michigan State University, 1975
BALIS, JOHN U., Chairperson - Professor (Pathology and Laboratory Medicine), 1978
M.D., National University of Athens, Medical School, Greece, 1957
BALL, WILLIAM L., Assistant in Research (CUTR), 1988
B.S.; M.A., University of South Florida, 1988
BALLESTER, CHRISTINA B., Visiting Assistant Professor (Psychiatry and Behavioral Medicine), 1988
B.A., M.D., University of Buenos Aires, 1973
BALLESTER, OSCAR F., Assistant Professor (Internal Medicine), 1989
M.D., University of Cordoba, Argentina, 1971
BALSERA, ALCIA F., Associate in (Engineering), 1986
B.S. Che.; M.S. Che., University of South Florida, 1986
BALSON, PETER S., Visiting Associate Professor (Geology), 1991
B.S., Ph.D., Polytechnic of North London, 1979
BANDYK, DENNIS P., Professor (Surgery), 1991
B.S.E., M.S.E., M.D., University of Michigan School of Medicine, 1975
BANES, RUTH A., Associate Professor (American Studies), 1979
B.A., Ph.D., University of New Mexico, 1978
BANKS, JOANNE T., Visiting Professor (English), 1991
B.A., M.A., Ph.D., Purdue University, 1967
BANOOB, SAMIR N., Professor (Public Health), 1983
M.D., D.M., D.P.H., Dr.P.H., Alexandria University, Egypt, 1979
BARMER, MICHAEL J., Professor (Biochemistry), 1983
B.SC., M.SC., University of Sussex, 1975
BARCLAY, LAURIE L., Assistant Professor (Neurology), 1988
B.A., Cornell University, 1978
BARKHOZ, GERALD R., Associate Professor (Childhood Education), 1968
B.S.; M.Ed.; Ed.D., University of Florida, 1976
BARLOW, RADEMEYER, IVAN K., Instructor (Anesthesiology), 1992
B.S., M.B., M.D., University of South Florida, 1991
BARNARD, JAMES W., Professor (Psychological and Social Foundations), 1968
A.B.; M.A.; M.S., Yale University, 1963
BARNES, LEWIS A., Professor (Pediatrics), 1972
A.B.; M.D., Harvard Medical School, 1944 M.A. Hon.
BARNETT, JONATHAN, Eminent Scholar (Architecture and Urban Planning), 1991
BAROB, BRIGITA M., Visiting Assistant In (Exceptional Child Educa-
tion), 1988
B.A., University of Minnesota, 1984
BARRETT, ANDREW J., Assistant Dean-Instructor (Engineering), 1982
B.A.; M.A.; Ed.D., University of Florida, 1976
BARRIOS, MAURA, Academic Administrator (Academic Affairs), 1990
B.A., Utah State University, 1976
BARRON, ANN, Assistant Professor (Education), 1991
BARRY, FRANCIS P., Visiting Research Associate (Biochemistry), 1990
B.S.; M.A.; Ph.D., The National University of Ireland, 1984
BARTELS, LOREN J., Associate Professor (Surgery), 1980
B.A.; M.D., University of South Florida, 1974
BARTLETT, ALTON C., Professor - Chairperson (Management), 1967
B.S.; Ph.D., University of Wisconsin, 1968
BARYLSKI, ROBERT V., Research Associate Professor, (Government and International Affairs), Sarasota Campus, 1979
B.A.; M.A., Ph.D., Harvard, 1972
BASS, DAWN A., Academic Administrator (Graphicstudio), 1990
B.A., University of South Florida, 1972
BATES, MARGARET L., Acting Provost/Professor (Social Sciences), New College of USF, 1975
BATSCHIE, GEORGE M., Jr., Associate Professor (Psychological and Social Foundations), 1989
B.A.; M.A., Ed.D., Ball State University, 1978
BATTANE, GARY R., Instructor (Law and Mental Health), 1986
B.A.; M.A., University of Detroit, 1977
BAUER, GORDON B., Visiting Assistant Professor (Social Sciences)
B.A., University of South Florida, 1991
B.A.; M.A.; M.S.; Ph.D., University of Hawaii, 1986
BAUER, PAUL C., Visiting Instructor (Chemistry), 1991
B.S., University of South Florida, 1986
BAUER-SARDINA, IRMA K., Assistant in Research (Pediatrics) St. 
Petersburg Campus, 1988
B.A., Rutgers University, 1987
BAUM, ROSALIE A., Assistant Professor (English), 1987
B.A.; 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
BAZON-CELIS, MANUEL, Assistant Professor (Public Health), 1987
B.S., M.D., M.S.C.; Ph.D., Johns Hopkins University, 1985
BEACH, DOROTHY R., Counselor/Advisor (Counseling Center for 
Human Development), 1972
B.A.; M.A.; Ed.D., Nova University, 1975
BEASLEY, BOB L., Associate Professor (Physical Education), 1970
B.S.; M.Ed.; Ph.D., Florida State University, 1968
BECK, ROY W., Professor (Ophthalmology), 1986
A.B.; M.D., University of Pennsylvania School of Medicine, 1977
BECKER, JEANNE L., Assistant Professor (Obstetrics and Gynecol-
ogy), 1990
B.S.; Ph.D., University of South Florida, 1986
BECKER, JUDITH A., Associate Professor (Psychology), 1981
B.A.; Ph.D., University of Minnesota, 1981
BECKMAN, RICHARD L., Assistant Professor (Visual Arts), 1991
B.A.; B.F.A., M.F.A., University of New Mexico, 1990
BEENHAKER, ARIE, Professor (Finance), 1973
Ph.D., Ph.D., Purdue University, 1964
BEHINKE, ROY H., Professor - Chairperson (Internal Medicine), 1972
A.B.; M.D., Indiana University School of Medicine, 1946
BELCHER, HAROLYN M., Assistant Professor (Pediatrics), 1989
B.S., M.D., Howard University, 1982
BELL, JAMES A., Associate Professor-Chairperson (Philosophy), 1974
A.B.; M.A., Ph.D., Boston University, 1969
BELL, SUSAN S., Professor (Biology), 1979
B.A.; M.S., Ph.D., University of South Carolina, 1979
BELLENTANI, DONALD M., Professor (Economics), 1985
B.S.; M.B.A., Ph.D., Florida State University, 1971
BEOHLEAVEK, JOHN M., Professor (History), 1970
B.A.; M.A., Ph.D., University of Nebraska, 1970
BELSOLE, ROBERT J., Professor (Surgery), 1991
B.S.; M.D., New York Medical College, 1969
BELT, JACK W., Associate Professor (Theatre), 1966
B.A.; M.F.A.; J.D., University of Florida, 1967
BENADUSI, GIOVANNA, Assistant Professor (History), 1988
Ph.D., Syracuse University, 1988
BENENSON, JAMES S., Assistant in Research (Geography), 1991
B.A.; M.A., University of South Florida, 1991
BENFORD, STEPHEN A., Visiting Assistant In (Pediatrics), 1977
B.S., Purdue University, 1972
BENJAMIN, WILLIAM F., Professor (Educational Leadership and 
Higher Education), 1968
B.A.; M.A.; Ph.D., George Peabody College, 1961
BENN, CAROL K., Visiting Assistant Professor (Social Work), 1991
B.A.; M.S.W., University of South Florida, 1985
BENSON, KAARON, Assistant Professor (Pathology), 1989
B.S.; M.D., Medical College of Pennsylvania, 1983
BENSON, ROBERT F., Visiting Assistant Professor (Chemistry), 1990
B.S.; M.S.; Ph.D., University of Arkansas, 1976
BENTLEY, MARY ANN M., Lecturer (Theatre), 1976
B.A., University of South Florida, 1962
BENTON, J. EDWIN, Associate Professor (Government and International Affairs), 1979
B.A., M.A.; Ph.D., Florida State University, 1978

BENTON, THELMA D., Associate Dean (Undergraduate Studies), 1969
B.S.; M.S.; Ph.D., Florida State University, 1981

BERCU, BARRY B., Professor (Pediatrics), 1984
B.S., M.D., University of Maryland, 1969

BERGER, LAWRENCE D., Professor (Dance), 1981
Professional Graduate Diploma, The Juilliard School, 1963

BERGER, NEAL H., Program Director/Assistant Professor (Education), 1985
B.A.; M.S.; Ph.D., Florida State University, 1984

BERGGREN, DOUGLAS C., Professor (Humanities), New College of USF, 1975
B.A.; M.A.; M.D., Yale University, 1959

BERMAN, CLAUDIA G., Assistant Professor (Radiology), 1989
B.A., Ed., Eastern Washington University, 1975

BERNARD, THOMAS E., Associate Professor (Public Affairs), 1979
B.A., M.A., M.D., Florida State University, 1978

BESTERFIELD, GLEN H., Assistant Professor (Mechanical Engineering), 1988
B.S.; M.S.; Ph.D., Northwestern University, 1989

BEITZ, JOHN V., Associate Professor (Biology), 1963
B.S.C.; Ph.D., St. Bonaventure University, 1963

BETZER, PETER, Professor - Chairperson (Marine Science), St. Petersburg Campus, 1971
B.A.; Ph.D., University of Rhode Island, 1971

BEULIG, ALFRED JR., Professor (Natural Sciences), New College of USF, 1975
B.S.; M.S.; Ph.D., City University of New York, 1974

BEZON, JOAN F., Instructor (Nursing), 1986
B.S.N.; M.S.N., University of Rochester, 1985

BHETHANABOTA, VENKAT R., Assistant Professor (Chemical Engineering), 1987
B.Tech.; M.S.; Ph.D., Pennsylvania State University, 1987

BIERSDORF, WILLIAM R., Professor (Ophthalmology), 1978
B.S.; M.S.; Ph.D., University of Wisconsin, 1954

BIFORD, JESSE S., JR., Professor (Chemistry), 1961
B.A., M.A.; Ph.D., University of Utah, 1955

BINGHAM, ROB E., Visiting Assistant in (Education), 1991
B.S., University of South Florida, 1988

BIRKIN, STANLEY J., Professor (Information Systems and Decision Sciences), 1969
B.S.C.; M.S.C.; Ph.D., University of Alabama, 1969

BISHOP, INA M., Professor (Nursing), 1989
B.S.N.; M.S.N.; Ph.D., Indiana University, 1983

BLACKMAN, JOSEPH K., Coordinator-Professor (Education), 1988
B.A., M.A.; Ed.D., University of Massachusetts, 1975

BLACKSHEAR, WILLIAM M., JR., Associate Professor (Surgery), 1979
B.S.; M.D., Tulane Medical School, 1970

BLAIR, R. CLIFFORD, Visiting Associate Professor (Pediatrics), 1976
B.A., M.A.; Ph.D., University of South Florida, 1980

BLAKE, NORMAN J., Professor (Marine Science), St. Petersburg Campus, 1972
B.S.; M.S.; Ph.D., University of Rhode Island, 1972

BLAKE, RONALD E., Assistant Professor (Music), 1990
B.M., Northwestern University, 1986

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

BLANCK, GEORGE, Assistant Professor (Biochemistry and Molecular Biology), 1990
B.A., M.A.; Ph.D., Columbia University, 1983

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

BLANTON, JAMES E., Assistant Professor (Information Systems and Decision Sciences), 1985
B.S.; M.B.A.; Ph.D., University of Georgia, 1987

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

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

BOAZ, TIMOTHY L., Assistant Professor (FMHI), 1989
B.A.; M.S.; M.A.; Ph.D., University of Kansas, 1986

BOBO, MARSEENA L., Assistant In Education, 1990
B.S., Ohio State University, 1974

BOCANCEGRA, TOMAS S., Visiting Assistant Professor (Internal Medicine), 1990
M.D., Universidad Peruana, Cayetano Heredia, 1974

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

BODDS, ROY A., Associate Dean-Associate Professor (Information Systems and Decision Sciences), Ft. Myers Campus, 1985
B.A.; M.A.; Ph.D.; M.S.I.S., University of Pittsburgh, 1977

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

BOND, JOSEPH C., JR., Professor (Educational Leadership), 1966

BOOTH, JACKIE L., Visiting Coordinator (Business Administration), 1991
M.A., M.S., Southern Illinois University, 1980

BORCHERT, JILL E., Assistant Professor (Political Science), 1990
B.S.; M.S.; Ph.D., University of California at Riverside, 1990

BOURJAN, JEAN M., Visiting Instructor (Education), 1982
B.S., M.A., Prof. Degree., University of Illinois, 1967

BORKOWSKI, FRANCIS T., University President, 1984
B.S.; M.M.; Ph.D., West Virginia University, 1967

BORMAN, WALTER, Professor (Psychology), 1990
B.A.; Ph.D., University of California at Berkeley, 1972

BOSEK, VOYTEK, Assistant Professor (Anesthesiology), 1986
M.D., University of Prague, 1963

BOSKOVSKI, NIKOLA A., Visiting Instructor (Anesthesiology), 1992
M.D., Ph.D., University of Nebraska, 1987

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

BOUS, PIERRE J., JR., Associate Dean (Continuing Education) - Associate Professor (Ophthalmology), 1984
B.S.; M.S., M.D., Louisiana State University School of Medicine, 1971

BOWER, RICHARD J., Associate Professor (Surgery), 1991
B.A.; M.D., University of Virginia, Charlottesville, 1969

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

BOWERS, RICHARD T., Associate Dean and Professor (Business Administration), 1963
B.S.; M.S., Ed.D., George Peabody College, 1961

BOWERS, VICTOR D., Visiting Assistant Professor (Medicine), 1991
B.S.; M.D., University of South Florida, 1979

BOWIE, JULIUS R., Assistant Professor (Anesthesiology), 1989
B.S.; M.d., Medical College of Georgia, 1983

BOWLER, KEVIN W., Associate Professor (Computer Science and Engineering), 1984
B.S.; Ph.D., Duke University, 1980

BOYCE, GREGORY, Visiting Assistant Professor (Internal Medicine), 1990
B.S.; M.D., University of South Florida, 1982

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

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

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

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

BRADHAM, DOUGLAS D., Associate Professor (Public Health), 1986
A.B., M.P.H., M.A., D.P.H., University of North Carolina, Chapel Hill, 1981

BRADY, PATRICK G., Professor (Internal Medicine), 1978
B.A.; M.D., New Jersey College of Medicine, 1968

BRAGIN, STEPHEN M., Visiting Coordinator (Dean’s Staff Development), 1991
FACULTY 221

UNIVERSITY OF SOUTH FLORIDA - 1992/93 UNDERGRADUATE CATALOG

BRAIN, DAVID K., Assistant Professor (Sociology) New College of USF, 1971
B.A., Ph.D., Harbard University, 1984
BRAMAN, ROBERT S., Professor (Chemistry), 1967
B.S., Ph.D., Northwestern University, 1966
BRAMSON, ROBERT T., Visiting Associate Professor (Radiology), 1985
A.B., M.D., Washington University School of Medicine, 1967
BRAHENVURG, NANCY A., Assistant Professor (Epidemiology), 1986
B.A.; M.P.H., Ph.D., University of Texas, 1984
BRANDMEYER, GERARD A., Associate Professor (Sociology), 1969
B.S., M.A., Ph.D., University of California, Los Angeles, 1962
BRANDMEYER, SUNNE, Lecturer (Economics), 1985
B.S., M.A., University of South Florida, 1978
BRANNICK, MICHAEL T., Associate Professor (Psychology), 1986
B.A., M.A., Ph.D., Bowling Green State University, 1986
BRAZ J., Assistant Professor (Anesthesiology), 1991
B.S., M.D., University of Kansas, 1983
BRAZ, LLOYD, Coordinator (School of Music), 1977
B.A., M.A., University of North Carolina, 1968
BREIT, ETTA B., Assistant Professor (Interdisciplinary Social Science), 1982
B.S., M.A., Ph.D., University of Pennsylvania, 1984
BREIT, FRANK D., Associate Professor (Computers In Education), 1968
B.A., M.Ed., Ph.D., University of Texas, 1968
BREWER, PRISCILLA J., Assistant Professor (American Studies), 1987,
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KING, JAMES R., Associate Professor (Childhood Education), 1990
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Landers, Myrtle C., Counselor-Advisor (Undergraduate Studies), 1981
Landis, David L., Associate Professor (Center for Micro Electronics), 1988
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Langston, Douglas C., Professor (Humanities), New College of USF, 1977
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Lantz, Donald L., Professor (Psychological and Social Foundations), 1961
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Lassetter, James Jr., Assistant Professor (Accounting), 1966
B.S.; M.B.A., University of Chicago, 1964, C.P.A.
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<td>B.A. M.A., Ph.D., University of Iowa, 1971</td>
<td>Professor of Mass Communications</td>
<td>LUCOFF, MANNY</td>
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<td>LUDWIG, MICHAEL Z.</td>
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<td>LUEKEN, LINDA P.</td>
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<td>LYNN, STEVEN W.</td>
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<td>MAAS, STEVEN E.</td>
<td>Visiting Assistant In (CUTR Engineering), 1991</td>
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<td>MADDIGAL, LORENA</td>
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<td>McCARTHY, JAMES D.</td>
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<td>McCLELLAN, LESLIE</td>
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<td>MC ANCHOR, SUSAN</td>
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<td>MANGAR, DEVANAND</td>
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<td>MAHER, JERI E., Visiting Lecturer (Graphicstudio), 1991</td>
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<td>MALONE, JOHN L.</td>
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<td>MANI, ANIL</td>
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<td>MANEY, JAY</td>
<td>Associate Professor (Internal Medicine), 1979</td>
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<td>MANCCK, WILLIAM J.</td>
<td>Director (Management), 1980</td>
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<td>MANDELL, LEON</td>
<td>Professor (Chemistry), 1983</td>
<td>B.S., M.A., Ph.D., Harvard University, 1951</td>
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<td>MANDELL, SARA</td>
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<td>MANGAR, DEVANAND</td>
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<td>MANGUM, WILEE</td>
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<td>MANNA, SONIA B.</td>
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<td>MANSOUR, AMIRA B.</td>
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<td>MARSH, BRUCE L.</td>
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<td>MARSH, KRISTINA M.</td>
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<td>MARTIN, DEAN F.</td>
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<td>MARTIN, JOSELIN R.</td>
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<td>MARTIN, SUSAN M.</td>
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<td>MARTY, PHELIP J.</td>
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<td>MAUSER, AUGUST J., Professor (Exceptional Child Education), 1981</td>
<td>B.S., M.S., Ed.D., Indiana University, 1968</td>
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<td>MAYER, GEORGE H.</td>
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<td>MC ALISTER, LINDA</td>
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<td>MC ALLISTER, EARL W., Assistant Professor (Surgery), 1988</td>
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<td>MC COY, CHERYL D., Instructor/Librarian (University Libraries), 1991</td>
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<td>Name</td>
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<td>NEMCHONOK, IRENE</td>
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<td>NESBITT, ROBERT E.</td>
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<td>NESS, GENE C.</td>
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<td>NEWCOMB, PAUL R.</td>
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<td>NEWCOMBE, P. JUDSON</td>
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<td>NEWKIRK, PATRICIA M.</td>
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<td>NEWKOME, GEORGE R.</td>
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<td>NEWMAN, JOHN R.</td>
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<td>NEWTON, CATHERINE A.</td>
<td>Associate In Research (Medicine), 1981</td>
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<td>B.S.; M.S., East Carolina University, 1978</td>
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<td>NICKELS, BRADLEY J.</td>
<td>Associate Professor (Visual Arts), 1970</td>
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<td>B.D.; M.A.; Ph.D., University of Indiana, 1966</td>
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<td>NICOL, DAVID R.</td>
<td>Associate Vice President (Health Sciences), Associate Professor (Physiology), 1972</td>
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<td>B.S.; M.B.A.; Ph.D., Ohio State University, 1971</td>
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<td>NICOSIA, SANTO V.</td>
<td>Professor (Pathology), 1984</td>
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<td>M.C.; M.D., Catholic University of Sacred Heart School of Medicine and Surgery, Rome, Italy, 1967</td>
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<td>NIENHAUS, HARRY A.</td>
<td>Associate Professor (Electrical Engineering), 1967</td>
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<td>B.S., M.S., University of St. Louis, 1964</td>
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<td>NIIYA, KAZUNORI</td>
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<td>M.D., Okayama University Medical School, 1989</td>
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<td>NISHMAN, RICHARD J.</td>
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<td>M.D. State University of New York, 1986</td>
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<td>NIXDORF, JAMES C.</td>
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<td>B.S.B.A.; B.A., M.A., University of North Florida, 1980</td>
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<td>NIXON, ROBERT L.</td>
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<td>NOLAN, MICHAEL F.</td>
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<td>NOONAN, JOHN D.</td>
<td>Associate Professor (Classics), 1975</td>
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<td>NORD, HEINZ J.</td>
<td>Professor (Internal Medicine), 1973</td>
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<td>M.D., University of Frankfurt and Freiburg Medical Schools, 1964</td>
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<td>NORD, WALTER R.</td>
<td>Professor (Management), 1989</td>
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<td>NORTHCUTT, SUSAN S.</td>
<td>Associate Professor (International Studies), 1969</td>
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<td>B.A.; B.S.; Ph.D., Indiana University, 1970</td>
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<td>NORTHCUTT, TRAVIS J., JR.</td>
<td>Dean Emeritus-Professor (Human Services), 1972</td>
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<td>B.S., M.S., Ph.D., University of North Carolina, 1959</td>
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<td>NORVELL, NANCY K.</td>
<td>Visiting Associate Professor (FMHI), 1989</td>
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<td>NOTARIANNI, MARYANN,</td>
<td>Assistant Professor (Nursing), 1991</td>
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<td>B.S. M.S.N., D.N.Sc., Widener University, 1991</td>
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<td>NOTARO, GERALD A.</td>
<td>Assistant Department Head-University Librarian (University Libraries) St. Petersburg Campus, 1985</td>
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<td>B.A.; M.L.S., State University of New York at Buffalo, 1976</td>
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<td>NOVAK, GAIL M.</td>
<td>Assistant Department Head-Associate University Librarian (University Libraries) Sarasota Campus, 1987</td>
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<td>B.A.; M.L.S., University of South Florida, 1980</td>
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<td>NOVITZKY, DIMITRI</td>
<td>Associate professor (Surgery), 1990</td>
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<td>M.D., LaPlata School of Medicine, 1969</td>
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<td>NUNEZ, MARGARITA</td>
<td>Visiting Assistant Professor (Internal Medicine), 1991</td>
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<td>OBERHOFER, SIGNE W.</td>
<td>University Librarian (University Libraries) St. Petersburg Campus, 1974</td>
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<td>Assistant Professor (Mathematics), 1989</td>
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<td>O'BRIEN, WILLIAM F.</td>
<td>Professor (Obstetrics and Gynecology), 1983</td>
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<td>A.B.; M.D., New York University School of Medicine, 1974</td>
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<td>OCHSHORN, JUDITH</td>
<td>Professor (Interdisciplinary Social Science), 1969</td>
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<td>OESTREICH, TERENCE M.</td>
<td>Academic Administrator (Chemistry), 1988</td>
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<td>B.A.; Ph.D., University of Florida, 1973</td>
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<td>OGATA, HAJIME</td>
<td>Associate In (Pediatrics), 1991</td>
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<td>M.D., Kansai Medical University, 1983</td>
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<td>OGATA, NAHOKO</td>
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<td>M.D., Ph.D., Kansai Medical University, 1989</td>
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<td>OGDEN, JOHN C.</td>
<td>Director (Florida Institute of Oceanography), St. Petersburg Campus, 1988</td>
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<td>A.B.; Ph.D., Stanford University, 1968</td>
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<td>O'GRADY, MAUREEN P.</td>
<td>Visiting Assistant Professor (Medicine), 1989</td>
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<td>B.A.; M.A., Ph.D., University of California, 1986</td>
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<td>OHAEBULAM, FESTUS U.</td>
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<td>B.A.; M.A.; Ph.D., University of Denver, 1967</td>
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<td>O'HERRON, VIRGINIA S.</td>
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<td>B.A.; M.S.I.E.; M.S.; Ph.D., University of Cincinnati, 1983</td>
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<td>OLANOW, CHARLES W.</td>
<td>Professor (Neurology), 1986</td>
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<td>M.D., University of Toronto, 1965</td>
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<td>O'LEARY, TIMOTHY O.</td>
<td>Visiting Instructor, (Obstetrics), 1991</td>
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<td>A.B., M.D., University of Missouri, 1987</td>
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<td>OLINE, LARRY W.</td>
<td>Professor (Civil Engineering and Mechanics), 1967</td>
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<td>B.A.; B.S.; M.S.; Ph.D., Georgia Institute of Technology, 1968, P.E.</td>
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<td>OLIVER, JANELLE</td>
<td>Visiting Research Associate (Anatomy), 1990</td>
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<td>OLPIFF, CHARLEEN B.</td>
<td>Acting Academic Administrator (Educational Measurement-Research), Ft. Myers Campus, 1989</td>
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<td>OLSEN, EUGENE D.</td>
<td>Professor (Chemistry), 1964</td>
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<td>B.S., Ph.D., University of Wisconsin, 1960</td>
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<td>OLSON, GARY A.</td>
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<td>B.A.; M.A., Ph.D., Indiana University of Pennsylvania, 1980</td>
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<td>OLSLON, RAY A.</td>
<td>Professor (Internal Medicine), 1976</td>
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<td>M.D., George Washington University School of Medicine, 1956</td>
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<td>OMAN, ROBERT M.</td>
<td>Visiting Assistant Professor (Physics), 1991</td>
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<td>B.S.; Sc.M.; Ph.D., Brown University, 1963</td>
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<td>O'NEIL, CHERI J.</td>
<td>Professor (Accounting), 1991</td>
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<td>O'NEIL, MICHAEL S.</td>
<td>Capt., Assistant Professor (Military Science), 1990</td>
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<td>B.A., Eastern New Mexico University, 1978</td>
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<td>ORLINSKY, DONALD E.</td>
<td>Professor-Chairperson (Educational Leadership), 1969</td>
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<td>ORR, MARK T.</td>
<td>Professor-Director (Interdisciplinary Social Science), 1966</td>
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<td>B.A., Ph.D., University of North Carolina, 1954</td>
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ORRU, MARCO, Associate Professor (Sociology), 1987
M.A., Ph.D., University of California at Davis, 1984

ORTINAU, DAVID J., Associate Professor (Marketing), 1979
B.S.; M.S.; Ph.D., Louisiana State University, 1979

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OSNES, PAMELA C., Visiting Assistant Professor (Child and Family Studies), 1968
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O'SULLIVAN, PETER B., Professor (Theatre), 1963
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OTA, YUKO, Associate In (Pediatrics), 1991
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OTT, RUTH A., Coordinator (Academic Advising), Sarasota Campus, 1975
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OTTANELLI, M. FRASER, Visiting Assistant Professor (History), 1987
Ph.D., Syracuse University, 1987

OTTO, RANDY, Visiting Assistant Professor (FMHI), 1989
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OUIDERKIRK, PAUL E., Assistant In (CUTR Engineering), 1991
B.A., M.P.S., Western Kentucky University, 1978

OWEN, CHARLES R., Jr., Associate Professor (Music), 1981
B.M.; M.A., California State University, 1979

OWEN, PETER T., Assistant Professor (Military Science), 1991
B.S., University of Houston, 1980

OWEN, TERENCE C., Professor (Chemistry), 1964
B.Sc., Ph.D., University of Manchester, England, 1964

OWEN, WILLIAM D., Instructor (Music Arts), 1964
B.M.; M.M., North Texas State University, 1960

PACIGA, JUNE E., Associate In Research (Pathology), 1978
B.S., University of Illinois, 1972

PAINE, SCOTT C., Visiting Assistant Professor (Government and International Affairs), 1991
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PALLS, TERRY L., Associate Professor (Humanities), New College of USF, 1973
B.A.; M.A., Ph.D., University of Kansas, 1974

PAMIERI, NICHOLAS V., Visiting Instructor (Crime and Delinquency), 1988
A.A.; M.Ed., Pennsylvania State University, 1976

PAMIES, RUBENS, Assistant Professor (Medicine), 1989
B.S.; M.D., State University of New York, 1986

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PANACEK-HOWELL, LUANNE J., Instructor-Assistant Chairperson (Child and Family Studies), 1981
B.A., M.A., University of South Florida, 1985

PANTHER, EDWARD E., Professor-Counselor (Counselor Education), 1969
B.S.; M.S., Ed.D., State University of New York at Buffalo, 1969

PAPENHAUSEN, PETER R., Visiting Assistant Professor (Pediatrics), 1988
B.S.; Ph.D., New York University, 1974

PAPPAS, GEORGE, Professor (Visual Arts), 1966
B.S., M.A., Ed.D., Pennsylvania State University, 1957

PAPPAS, JAMES L., Dean (Business Administration) - Professor (Finance), 1986
B.S., M.S., Ph.D., University of California, Los Angeles, 1968

PARADISE, LOIS J., Associate Professor (Medical Microbiology), 1973
A.B.; M.S., Ph.D., University of Michigan, 1960

PARKER, DOROTHY F., Visiting Coordinator (Public Health), 1988
B.S.; M.H.S., Johns Hopkins School of Hygiene and Public Health, 1977

PARKER, KEITH A., Associate Professor (History), 1966
B.A.; M.A., Ph.D., University of Maryland, 1965

PARKS, JOHN, Assistant Professor (Dance), 1989
B.A.; M.A., Ph.D., University of South Florida, 1981

PARRINO, DONNA P., Assistant to (President's Office), 1981
A.B.; M.A., Florida State University, 1967

PARROTT, MARY E., Associate Professor (Mathematics), 1979
B.S.; M.S., Ph.D., Memphis State University, 1979

PARROTT, WILLIAM H., Associate Professor (Accounting), 1976
B.A., M.Accy., Ph.D., University of Illinois, 1971

PARSON, OLIVER J., Counselor/Advisor (Undergraduate Studies), 1988
B.A.; M.A., New Mexico Highlands University, 1972

PARSONS, ANNA K., Assistant Professor (Obstetrics and Gynecology), 1989
B.S.; M.D., University of Michigan, 1981

PARSONS, MICHAEL T., Associate Professor (Obstetrics and Gynecology), 1989
B.S.; M.D., Wayne State Medical School, 1977

PASTOR, K., Visiting Scholar/Scientist (D.A.R.P.A.), 1989
B.S., M.S., Ph.D., Washigton University, 1987

PAUL, JAMES L., Chairperson-Professor (Exceptional Child Education), 1988
A.B.; M.A.; M.A.; Ed.D., Syracuse University, 1967

PAUL, JOHN H., Professor (Marine Science), 1983
B.A.; Ph.D., University of Miami, Florida, 1980

PAUL, MARIA T., Visiting Instructor (Education), 1989
B.A.; M.Ed., Harvard University, 1985

PAULSON, DARRYL G., Associate Professor (Political Science), St. Petersburg Campus, 1974
B.A.; M.S., Ph.D., Florida State University, 1975

PAYAN, MARY H., Visiting Assistant Professor (Pediatrics), 1981
B.A.; M.D., Harvard Medical School, 1972

PAYAN, PETER R., Assistant Professor (Ophthalmology), 1981
A.B.; M.D., Harvard Medical School, 1972

PAWLOWSKI, ROBERT S., Professor (English), 1983
B.A.; M.A.; Ph.D., University of Denver, 1968

PAYNE, A. DAVID, Associate Professor (Communication), 1988
B.A.; M.A.; Ph.D., University of Iowa, 1982

PELLERON, JOHN F., Assistant Professor (Mathematics), 1988
B.A.; M.S., Ph.D., Emory University, 1984

PENCEV, DOBROMIR, Visiting Assistant Professor (Internal Medicine), 1990
B.S., M.D., Philipps University of Marburg, 1981

PENDERGRAFT, JAMES S., Visiting Instructor (Obstetrics and Gynecology), 1991
M.D., Meharry Medical College, 1982

PENNER, LOUIS A., Professor-Chairperson (Psychology), 1969
B.A., M.A., Ph.D., Michigan State University, 1969

PENNINGTON, BRENDA A., Visiting Instructor (Law & Mental Health), 1991
B.S.; M.S.W., Florida State University, 1990

PEPPARD, VICTOR E., Professor (Languages), 1975
B.A.; M.A.; Ph.D., University of Michigan, 1974

PEREZ, KATHLEEN R., Visiting Instructor (Psychiatry and Behavioral Medicine), 1987
B.A.; M.A., University of South Florida, 1983

PEREZ, LOUIS A., JR., Graduate Research Professor (History), 1970
B.A.; M.A.; Ph.D., University of New Mexico, 1970

PEREZ, RAFAEL A., Associate Professor (Computer Science Engineering), 1983
B.S.E.E.; M.S.E.E., Ph.D.E.E., University of Pittsburgh, 1973

PETERS, ROGER H., Assistant Professor (Crime and Delinquency), 1986
B.A.; M.S., Ph.D., Florida State University, 1986

PETERSEN, BARBARA K., Assistant Professor (Mass Communications), 1991
B.A.; M.A.T.; Ph.D., University of Michigan, 1991

PETSON, DONOVAN D., Professor (Educational Leadership), 1968
B.S.; M.A.; Ph.D., University of Pittsburgh, 1970

PETTEGREW, LOYD S., Professor (Communication), 1982
B.A.; M.A.; Ph.D., University of Michigan, 1977

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B.A.; M.Ed.; Ed.D., George Peabody College, 1966
PHelps, Christopher P., Associate Professor (Anatomy), 1976
B.A.; Ph.D., Rutgers University, 1973

Phillips, Virginia B., Coordinator (Public Health), 1991
B.S., M.Ed., Pennsylvania State University, 1962

Phuphanich, Surasak, Assistant Professor (Neurology), 1983
B.Sc., M.D., Mahidol University, Thailand, 1975

Piegl, Leslie, Assistant Professor (Engineering), 1989
M.Sc.; M.B.C.S.; Ph.D., Eotvos University, 1982

Pietrzyk, Michael C., Visiting Assistant In (Civil Engineering and Mechanics), 1990
B.S.; M.S., Pennsylvania State University, 1977

Pinnard, Calvin M., Associate Professor-Chairperson (Rehabilitation Counseling), 1964
A.B.; B.D.; M.A., Ph.D., University of Florida, 1959

Pinkas, Haim, Assistant Professor (Internal Medicine), 1988
M.D., Free University of Brussels, 1976

Pinkham, Patricia, A.B., 1981

Pitts, Gregory S., Assistant Professor (Military Science), 1991
B.S., United States Military Academy, 1983

Plate, Jeffrey M., Assistant Professor (Aerospace Studies), 1991
B.A., M.P.A., Golden Gate University, 1990

Plawecki, Judith A., Dean-Professor (Nursing), 1987
B.S.; M.A., Ph.D., University of Iowa, 1974

Poiley, Eileen F., Assistant In Research (Suncoast Gerontology Center), 1987
B.S.; M.S., Johns Hopkins University, 1986

Politо, Josephine T., Associate Professor (Childhood Education), 1984
Ph.D., Rutgers University, 1980

Porter, Kathy B., Assistant Professor (Obstetrics and Gynecology), 1987
B.S.; M.D., University of Louisville, 1981

Porter, Phillip K., Associate Professor (Economics), 1985
B.S.; M.S.; Ph.D., Texas A&M University, 1978

Potthoven, Kenneth L., Associate Professor-Chairperson (Mathematics), 1984

Potter, Robert L., Assistant Professor (Chemistry), 1984
B.A.; M.S., Ph.D., University of California, San Diego, 1979

Potter-Bryant, Anna, Visiting Assistant In Education (IIR), 1991
M.A., M.A., University of West Florida, 1988

Pow-Sang, Julio M., Assistant Professor (Surgery), 1988
M.D., Universidad Autonoma De Guadalajara, Mexico, 1978

Powell, Robert W., Professor (Psychology), 1966
B.A.; M.A.; Ph.D., Florida State University, 1966

Power, Fred B., Professor (Finance), 1964
B.S., M.Ed., University of Florida, 1964

Powders, Daniel S., Assistant Professor (Architecture), 1988
B.Arch., M.Arch., University of Florida, 1974

Powers, Pauline S., Professor (Psychiatry), 1975
A.B.; M.D., University of Iowa, 1971

Powers, William G., Associate Professor (Law & Mental Health), 1990
B.A.; Ph.D., University of Texas at Austin, 1977

Prange, Mark, Visiting Assistant Professor (FMHI), 1988
B.A.; M.A., Ph.D., University of South Florida, 1987

Prentice, Ann E., Associate Vice President (Academic Affairs) - Professor (Library and Information Sciences), 1988
A.B.; M.L.S.; M.S., Columbia University, 1972

PRESTON, K.G., Associate Director-Instructor (Technology Transfer), 1990
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Preto-Rodas, Richard A., Professor (Languages), 1981
B.A.; M.A.; M.A.; Ph.D., University of Michigan, 1966

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B.A.; M.S.E.; Ph.D., University of Colorado, San Diego, 1976

Price, Lorraine J., Assistant Professor (Pediatrics), 1979
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Price, William T., Instructor (Professional Physical Education), 1983
B.A.; M.A., University of South Florida, 1972

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Prince, Fred L., Associate Professor (Content Specializations), 1971
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Probes, Christine M., Associate Professor (Languages), 1983
B.A.; Ph.D., Tulane University, 1968

Prockop, Leon D., Professor-Chairperson (Neurology), 1973
B.A.; M.D., University of Pennsylvania, 1959

Pross, Susan, Visiting Assistant Professor (Medical Microbiology), 1985
B.S.; Ph.D., University of Pennsylvania, 1975

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B.S.; M.S.; Ph.D., Brown University, 1989

Quintero, Socorro, Assistant Professor (Business), 1989
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Race, Stephanie F., Visiting Instructor-Librarian (University Libraries), 1991
B.A.; B.S., M.L.A., University of South Florida, 1989

Rhaim, Diane, Assistant Professor (Political Science), 1990
B.A.; M.A.; M.S.; Ph.D., Syracuse University, 1989

Raj, Balasubramanian, Assistant Professor (Psychiatry), 1979
M.B.B.S., Madras Medical College, India, 1977

Rallston, Yvonne L., Director (Lakeland Center), 1982
B.A.; M.A.; Ph.D., University of Mississippi, 1974

Ramachandran, Kandethody M., Assistant Professor (Mathematics), 1987
B.Sc.; M.Sc.; Ph.D., Brown University, 1989

Ranellis, Judith D., Visiting Assistant Professor (Pediatrics), 1989
B.A.; M.D., Howard University, 1979

Rangathan, N., Assistant Professor (Center for Micro Electronics), 1988
B.E.; Ph.D., University of Central Florida, 1988

Ransdell, Sarah E., Assistant Professor (Psychology), New College of USF1990
B.A.; M.S., Ph.D., University of Florida, 1987

Rao, Anil V., Professor (Mathematics), 1972
B.S.; M.S.; M.S.; Ph.D.; Ph.D., Virginia Polytechnic Institute and State University, 1972

Rao, Papineni S., Professor (Obstetrics and Gynecology), 1979
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Rao, Undarlu R., Associate in Research (Public Health), 1988
B.Sc.; M.Sc.; D.H.E., Ph.D., Bombay University, 1988

Rasanen, Jukka O., Associate Professor (Anesthesiology), 1991
M.D., University of Helsinki School of Medicine, 1978

Rasch, John D., Professor (Rehabilitation Counseling), 1978
B.A.; M.R.C.; M.S.S.W.; Ph.D., University of Wisconsin, 1977

Ratcliff, Nancy, Visiting Assistant Professor (Childhood Education), 1991
B.S.; M.S., Ph.D., Indiana State University, 1991
ROSS, WILLIAM T., Professor-Chairperson (English), 1970
B.A.; M.A., Ph.D., University of Virginia, 1970
ROSELLI, HILDA C., Visiting Coordinator - Instructor (Exceptional Child Education), 1985
B.A.; M.A., University of South Florida, 1981
ROTHBERG, MICHAEL J., Visiting Instructor (Ophthalmology), 1992
B.A.; M.D., University of Wisconsin, 1979
ROTH, DEBORAH C., Visiting Assistant Professor (Psychiatry), 1982
A.B.; D.O., College of Osteopathic Medicine and Surgery, 1973
ROUSE, MARY ANNE M., Instructor (Accounting) - Director (Professional and Management Development Center), 1971
B.A.M.A.; University of South Florida, 1974
RUE, JOHN W., Professor (Economics), 1979
B.S.; M.S., Ph.D., University of Illinois, 1966
ROWSEY, JOHN J., Professor & Chairman (Medicine), 1991
B.A.; M.D., George Washington University, 1968
RUBIN, STEVEN J., Professor (English), 1969
B.A.; M.A., Ph.D., University of Michigan, 1969
RUCKDESCHEL, JOHN C., Professor (Internal Medicine), 1991
B.Sc., M.D., Albany Medical College, 1970
RUDGE, DANIEL, Assistant In Research (Center for Urban Transportation and Research), 1991
B.A., M.V.R.P., Virginia Commonwealth University, 1988
RUGS, DEBORAH J., Visiting Assistant Professor (Epidemiology & Policy Analysis), 1990
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RUNDUS, DEWEY J., Associate Professor (Computer Science and Engineering), 1972
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SAVIELLO, GEORGE M., Visiting Associate Professor (Anesthesiology), 1988
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SAXON, SUE V., Professor (Gerontology), 1963
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SCAMMELLS, PETER J., Associate In Research (Internal Medicine), 1991
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SCHENCK, DAVID P., Dean (Sarasota Campus) - Professor (Languages), 1974
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SCHMIDT, RALPH D., Professor (Pathology), 1985
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STONE, DOUGLAS E., Professor (Measurement and Research Education), 1964
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STORY, COLEEN M., Associate Professor (Counselor Education), 1965
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STURGEON, WINIFRED, Professor (Communication Science and Disorders), 1982
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STREET, RICHARD B., Director (Research), 1990
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B.S., M.A., University of South Florida, 1980

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B.A.; M.A., Ph.D., University of London, 1990

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SWEETING, JAMES JR., Coordinator (Educational Leadership and Higher Education), 1984
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TATUM, JIM C., Associate Professor (Languages), 1963
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TERRIT, LEONARD, Professor (Criminology), 1978
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TERRY, A A M , Visiting Instructor (Psychiatry and Behavioral Medicine), 1986
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TESTRAKE, DIANE T., Professor (Biology), 1967
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TRUITT, WILLIS H., Professor (Ph d.), 1968
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TSOKOS, CHRIST P., Professor (Mathematics), 1972
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TUCKER, PAMELA S., University Librarian (University Libraries), 1972
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TURKAGE, WILLIAM S., Visiting Assistant Professor (Medicine), 1991
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TURNER, STEPHEN P., Graduate Research Professor (Philosophy), 1975
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B.S.; M.A.; Ph.D., University of Michigan, 1962

WHIDDEN, CHRISTINA, Instructor (Public Health), 1986
B.A., West Virginia University, 1979

WHITAKER, ROBERT D., Professor (Chemistry), 1962
B.S.; Ph.D., University of Florida, 1959,

WHITE, JAMES A., Assistant Professor (Content Specialization), 1983
B.A., M.Ed., University of South Florida, 1984

WHITE, MICHAEL J., Associate Professor (Information Systems and Decision Sciences), 1968
B.B.E.; M.B.A.; Ph.D., University of Florida, 1972

WHITE, NANCY M., Associate Professor (Anthropology), 1983
B.A., M.A., Ph.D., Case Western Reserve University, 1982

WHITE, ROBERT L., Assistant Professor (Social Work), 1978
B.A.; M.S.W., University of North Carolina, 1963

WHITEFORD, LINDA M., Associate Professor (Anthropology), 1981
B.A.; M.A., Ph.D., University of Wisconsin, Milwaukee, 1979,

WHITTAKER, D. R., Associate In (D.A.R.P.A.), 1989
A.A.; B.S., Tri-State University, 1969

WHITTAKER, GERALD F., Associate Professor (Accounting) St. Petersburg Campus, 1989
B.A.; M.A.: M.B.A.; Ph.D., Northwestern University, 1974

WICKSTROM, ERIC, Professor (Chemistry), 1982
B.S.; Ph.D., University of California, Berkeley, 1972

WIDEN, RAYMOND H., Visiting Instructor (Medical Microbiology), 1981
B.A., Ph.D., University of South Florida, 1981

WIELD, KENNETH F., Professor (Finance), 1980
B.S.; M.A., Ph.D., Washington University in St. Louis, 1970

WERNER, CURTIS W., Associate Dean (Arts and Sciences) - Professor (Anthropology) 1972
B.A.; M.A., Ph.D., University of Arizona, 1975

WILBER, RICHARD, Instructor (Arts and Sciences), 1988

WILES, JON W., Professor (Educational Leadership) St. Petersburg Campus, 1981

WILEY, PARIS J., Associate Professor (Electrical Engineering), 1982
B.E.S.; M.S.E.E., Ph.D.E.E., Virginia Polytechnic Institute and State University, 1973

WILK, ROGER E., Professor (Educational Measurement and Research), 1972
B.S.; M.A., Ph.D., University of Minnesota, 1957

WILK, RUTA I., Associate Professor (Social Work), 1981
B.A., M.S.W.; D.S.W., University of California, Berkeley, 1981

WILKSON, JUDY R., Academic Administrator (Education), 1985
B.A., M.A.; Ph.D., University of South Florida, 1987

WILKINSON, STUART, Associate Professor (Mechanical Engineering), 1984
B.Sc.; M.Sc., Ph.D., University of Southampton, 1984

WILL, RICHARD P., Assistant Professor (Information Systems and Decision Sciences), 1988
B.S., M.B.A., Ph.D., University of Houston, 1988

WILLIAMS, CAROL A., Professor (Mathematics), 1968
B.A.; Ph.D., Yale University, 1967

WILLIAMS, CHARLES C., Associate Professor (Internal Medicine), 1980
B.S.; M.D., University of Pittsburgh, 1973

WILLIAMS, DAVID K., Associate Professor (Theatre), 1975
B.A.; M.F.A., Florida State University, 1981

WILLIAMS, J. KELL, Associate Professor (Obstetrics and Gynecology), 1982
B.S.; M.D., Wayne State University School of Medicine, 1972

WILLIAMS, JAMES R., Professor (Anthropology), 1969
B.A.; 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, 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
B.S.; M.D., Washington University School of Medicine, 1969

WILLIAMS, WALTER E., Assistant Professor (Mathematics), 1961
B.A.; M.A.; Ed.D., Northeastern University, 1970

WILLIAMSON, BARBARA W., Visiting Assistant In (Institute for Instructional Research/Programs), 1991
B.S., M.S., Florida State University, 1987

WILSON, KEVIN T., Visiting Associate In (Engineering), 1988
B.S.E.E.; M.S.E.E., University of South Florida, 1984

WILSON, MARILYN K., Visiting Instructor (Psychiatry), 1970
B.A., M.S., Wayne State University, 1968

WILSON, RAYMOND R., Assistant Professor (Marine Science), St. Petersburg Campus, 1987
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., Program Director (Open University) - Associate Professor (Library and Information Sciences), 1968
B.S., M.A., Ed.D., Wayne State University, 1970,

WILSON, TIMOTHY R., Chairperson & Associate Professor, 1991
B.S.; M.S., Ph.D., State University of New York at Buffalo, 1990

WILSON, WAYNE E., Counselor/Advisor (Undergraduate Studies), 1989
B.S.; M.Div., Payne Theological Seminary, 1975

WIMMER, LYNNE A., Assistant Professor (Dance), 1983

VIRANOWSKA-STEWARD, MARZENNA, Assistant Professor (Neurology), 1986
B.S.; M.S.; Ph.D, Polish Academy of Sciences, 1980

WIREUDU, KWASI, Professor (Philosophy), 1987
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WITACHCHI, SARATH, Assistant Professor (Physics), 1990
B.S.; M.S., Ph.D., State University of New York at Buffalo, 1990

WITTICK, MARK J., Instructor (Communication Sciences & Disorders), 1990
B.A.; M.S., Ed.M., Columbia University, 1986

WOLFE, ALVIN W., Professor (Anthropology), 1974
A.B.; Ph.D., Northwestern University, 1953

WOUFF, GWENDOLYN M., University Librarian (Health Sciences Library), 1990
B.S.; M.L.S., Emporia State University, 1979

WOLFSOHN, JAY, Chairperson-Associate Professor (Public Health), 1984
B.A.; M.A.; M.P.H.; D.P.H., University of Texas, School of Public Health, 1987

WOOD, M. CHRISTINA, Visiting Assistant Professor (Philosophy), 1991
B.A.; Ph.D., University of Wisconsin, 1990

WOOD, WILLIAM G., Visiting Professor (Psychiatry), 1991
B.S.; Ph.D., University of North Carolina, 1968

WOODARD, LAURIE J., Assistant Professor (Family Medicine), 1986
A.B.; M.D., University of Vermont, 1976

WOODBRIDGE, DAVID D., Assistant Professor (Public Health), 1989
B.S.; M.S., Ph.D., Oregon State University, 1956

WOODBURY, ARTHUR N., Professor (Music), 1972
B.S.; M.M., University of Idaho, 1955

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

WOOTEN, CINDY J., Assistant In (CUTR Engineering), 1976
B.S., University of South Florida, 1990

WRIGHT, D. R. EDWARD, Associate Professor (Visual Arts), 1980
B.A.; M.F.A., Ph.D., Princeton University, 1976

WRIGHT, TENNYSON J., Associate Provost (Academic Affairs) - Associate Professor (Rehabilitation Counseling), 1983
B.S.; M.Ed., Ph.D., University of Georgia, 1976
WUJCIK, THEODORE F., Associate Professor (Visual Arts), 1970
Certificate, 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
WYNN, MARJORIE J., Assistant Professor (Academic Programs) Lakeland, 1991
B.S., M.A., Ph.D., University of South Florida, 1986
YAMAMOTO, YOSHIMASA, Assistant Professor (Medicine), 1988
B.S.; M.S.; M.D., Kobe University, 1981
YOUNG, MICHELE L., Program Director (Engineering), 1982
B.A., M.B.A., University of South Florida, 1988
YOUNG, FRANK L., Academic Administrator (Lakeland Center), 1987
B.S.; M.S.; Ph.D., University of Texas, Austin, 1965
YOUNG, FRANCIS E., Visiting Research Associate (Medical Microbiology), 1989
B.A.; M.P.H., University of South Florida, 1989
YOUNG, JANE F., Assistant Dean (Education) - Associate Professor (Professional Physical Education), 1970
B.S.; Ed. M.A.; Ph.D., Florida State University, 1986
YOUNG, KAREN K., Visiting Lecturer (Childhood Education), 1991
B.S., M.S., State University of New York, 1973
YOUNG, JANE E., Visiting Research Associate (Medical Microbiology), 1990
B.A.; M.P.H., University of South Florida, 1989
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B.S., M.L.S., University of South Florida, 1991
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B.S.; M.D., Universidad Nordestana, San Francisco De Macoris, 1981
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B.S.; M.S.; Ph.D., North Carolina State University, 1967
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ZHU, WEIGANG, Visiting Research Associate (Medical Microbiology), 1990
B.M.; M.S., Hunan Medical University, 1989
ZOBLE, ROBERT G., Assistant Professor (Internal Medicine), 1983
B.S.; M.D., Ph.D., University of Miami, Florida, 1978
ZUSMAN, JACK, Professor (FMHI), 1982
A.B.; M.A.; M.D.; M.P.H., Columbia University School of Public Health and Administrative Medicine, 1966
ZYLSTRA, SAPE A., Professor (Humanities), 1969
B.A.; B.D., Ph.D., Emory University, 1969
ABBREY, WALTER R., Lecturer (Engineering), 1966-1980

ABRAMS, JACQUES, Professor Emeritus (Music), 1963-1985

ADAMS, PATRICIA W., Counselor and Adviser (Academic Services), 1965-1983

*AGENS, FREDERIC F. (Deceased), Lecturer (Physical Science), 1960-1971

AGENS, JEANETTE F., Assistant Professor (Education), 1963-1972

ALEXANDER, LUELLA K., Lecturer (Sociology), 1972-1987

ALLEN, EDMUND E., Associate Professor (Interdisciplinary Social Science), 1964-1993

*ALLEN, JOHN S. (Deceased), President Emeritus, 1957-1970

ANDERSON, CELIA L., Assistant Professor (Education), 1967-1976

ANDERSON, EVERETT S., (Deceased), Professor (Music), 1963-1982

ANDERSON, E. CHRISTIAN, Professor (Psychological and Social Foundations), 1964-1991

ANDERSON, LOUIS V., Associate Professor (Psychological and Social Foundations), 1963-1980

APPLEGATE, MINERVA I., Professor (Nursing), 1976-1989

*ASHFORD, THEODORE (Deceased), Professor Emeritus (Chemistry), Dean Emeritus (Natural Sciences), 1960-1981

AULETA, MICHAEL S., Professor (Education), 1967-1973

AUSTIN, MARTHA L., Professor Emerita (Reading Education), 1963-1980

BAILEY, OSCAR W., Professor (Visual Arts), 1969-1985

*BATTIE, IAN W., Professor (Psychological and Social Foundations), 1985-1994.

BEASLEY, W. WAYNE, Professor (Educational Leadership), 1969-1985

*BEAUCHAMP, GEORGE E., Associate Professor (English), 1960-1971

BELL, JOHN O., Lecturer (Interdisciplinary Social Science), 1969-1982

BEVILACQUA, JEANETTE, Associate Professor (Nursing), 1977-1989

BILLINGSLEY, EDWARD B., Associate Professor (History), 1967-1977

BLOQUIST, 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

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BOYD, HERBERT F., Professor (Education), Sarasota Campus, 1965-1988

BRAUD, HENRY G., Associate Professor (Adult and Vocational Education), 1969-1984

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CLEARY, FLORENCE D. (Deceased), Lecturer (Education), 1964-1969

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*CLEEGER, 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

COUGHLAN, W. LYNNDON, Professor Emeritus (Humanities), New College of USF, 1975-1980

COLLIER, JR., CLARANCE H., Associate Professor (Adult and Vocational Education), 1968-1990

*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), 1967-1981

CRICKENBERGER, MARGARET E., Professor Emerita (Physical Education), 1961-1979

DANENBURG, WILLIAM P., Professor (Adult and Vocational Education), 1961-1985

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), 1960-1983

DICKIE, ANNAMARY, Associate Professor Emerita (Music Arts), 1969-1983

DONALDSON, MERLE R., Professor (Electrical Engineering), 1964-1985

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DOTY, LOUIS F., Professor (Industrial and Management Systems), 1970-1983

DOWD, A. GERALDINE, Professor (Nursing), 1978-1989

DOWNEY, PAUL M., Professor Emeritus (Industrial Systems), 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, ROBERT C., Professor (Exceptional Child Education), 1964-1990

DWYER, ROY E., Lecturer (Childhood and Language Arts Education), 1967-1978

EBERY, DAVID A., Associate Instructor (FMHI), 1972-1987

ERWIN, DONALD W. (Deceased), Instructor - Assistant Director (Sponsored Research), 1973-1983

FERENELIUS, W. CONARD, Distinguished Professor Emeritus (Chemistry), 1970-1975

FORMAN, GUY, Professor Emeritus (Physics), 1962-1972

FOULTZ, LUCILIE C. (Deceased), Lecturer (Counseling Center), 1963-1973

*FRIDEL, 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

GARRELS, ROBERT M., Professor Emeritus (Marine Science), 1979-1988 St. Petersburg Campus

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GATES, JEAN K., Professor Emeritus (Library, Media and Information Studies), 1966-1988
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GOLDING, LOIS A., Professor (Music Arts), 1962-1984

GONZALEZ, JUAN O., Associate Professor (Mechanical Engineering), 1965-1983

GOODWIN, HOWARD B., Associate Professor (Humanities), 1963-1984

GRIMES, MAXYNE M., Assistant Director (Health Sciences Center Library), 1972-1991

GRISCTI, WALTER E. (Deceased), Professor Emeritus (Mass Communications), 1967-1983

GROSS, PINCUS, Associate Professor (Rehabilitation Counseling), 1971-1987

HALL, SALLIE, Associate Professor (English), 1963-1987

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*KHARKNESS, MARY LOU, Director of Libraries Emerita and University Librarian (University Libraries), 1958-1991

*HARTLEY, JACQUETTA W., Instructor (English), 1960-1972

HARTMAN, ROBERT C., Professor (Internal Medicine), 1974-1989

HAY, JULIA M. (Deceased), Professor Emeritus (Education), 1969-1974

HEARN, THOMAS K., (Deceased), Assistant Professor (Education), 1967-1977

*Hertz, Gilman W., Professor (Elective Physical Education), 1960-1985

HICKMAN, WILLIAM, Assistant Professor (English), 1963-1969

Hindle, Will M. (Deceased), Professor (Visual Arts), 1972-1985

*Hirschberg, Edgar W., Professor Emeritus (English), 1960-1985

HOFFMAN, THEODORE B., Professor Emeritus (Humanities), 1962-1991

HORRIGAN, FREDERICK J. (Deceased), Associate Professor (Political Science), 1968-1985

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HUNTER, HAROLD J., Professor Emeritus (Marine Science), 1966-1982

Hunnicutt, CLARENCE W. (Deceased), Professor (Education), 1967-1977

Iorio, John J., Professor (English), 1963-1988

Jaeschke, Donald J., Associate Professor (Adult and Vocational Education), 1963-1979

Jaspers, Juliaella (Deceased), Assistant Professor (Economics), 1967-1975

Jennings, VANCE S. Professor-Coordinator (Music), 1967-1990

Johnson, Gordon A., Professor (Music Arts), 1963-1981

Johnson, O. ORVILLE, Professor Emeritus (Exceptional Child Education), 1972-1984

Johnson, ROGER E., Professor (Content Specializations), 1967-1990

Jurgensen, Louis C., Professor (Accounting), 1966-1981

Kaplan, MAX, Professor (Sociology), 1967-1978

Kasan, E. Lee, Lecturer (Communication Sciences and Disorders), 1967-1990

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Kelley, Walter D., Professor (Geology), 1970-1973

Kelley, John E., Associate Professor (Mathematics), 1964-1988

St. Petersburg Campus

*Kendall, Harry W., Professor (Physics), 1960-1984

Kenerson, David R., Associate Professor (Management), 1966-1987 St. Petersburg Campus

Kerns, Allen F., Visiting Assistant Professor (Adult and Vocational Education), 1967-1973

*Kiefer, H. Christian, Professor (English), 1960-1985

Kincaid, George H., Associate Professor (Psychological and Social Foundations), 1967-1988

Kinde, Stewart W., Professor-Chairperson (Communication Sciences and Disorders), 1965-1987

King, Imogene M. Professor Emerita (Nursing), 1980-1990

Kruschwitz, Walter H., Associate Professor (Physics), 1967-1990

*Lakea, Olga (Deceased), Research Associate (Botany), 1960-1970

Linton, Joe R., Associate Professor Emeritus (Biology), 1963-1982

Long, Jo Ann, Professor (Childhood Education), 1969-1989

*Luckenbach, Leon R. (Deceased), Associate Professor (Mathematics), 1960-1974

Lupton, D. Keith, Lecturer Emeritus (Undergraduate Studies), 1967-1990

*Mc Clung, Gene, Professor (Accounting), 1960-1983 St. Petersburg Campus

*Mc Clung, Norvel, Professor Emeritus (Biology), 1966-1985

*Mc Lean, Edward F. Professor (Languages), 1960-1990

Mackay, E. Maxine, Professor Emerita (Humanities), 1961-1980

Marcum, Martha M., Counselor/Advisor (Business), 1972-1989

Manker, Charles C. Jr. (Deceased), Professor (Psychological and Social Foundations), 1966-1984

Marin, Gerald S., Instructor (Student Personnel Office), 1969-1985

Maybury, P. Calvin, Professor (Chemistry), 1961-1987

Merriam, Harold C., Professor (Childhood and Language Arts Education), 1969-1981

Merriam, Kemper W., Professor Emeritus (Accounting), 1967-1982

*Meyer, Herbert N., Professor Emeritus (Industrial/Organizational Psychology), 1973-1985

Meier, Andrew J., Professor (Biology), 1961-1985

Mitchell, Richard W., Associate Professor (Physics), 1962-1986

*Monley, Laurence E. (Deceased), Professor (Mathematics Education), 1960-1983

Murphy, Robert J., Associate Professor (Economics), 1966-1984

Naehring, Douglas C.E., Associate Professor (Industrial and Management Systems), 1970-1990

*Nelson, Gid E., Jr., Professor Emeritus (Biology), 1960-1981

Nesman, Edgar G., Professor Emeritus (Sociology), 1966-1989

Neuberger, Hans H., Professor Emeritus (Geography), 1971-1984

Noer, Rudolf J., Professor Emeritus (Surgery), 1970-1977

Obermeyer, Charles (Deceased), Lecturer (American Idea), 1964-1970

Ochsorn, Myron, Associate Professor (English), 1963-1985

O'Donnell, Maurice E., Associate Professor (Public Administration), 1966-1984

O'hare, Leo H., Lecturer (English), 1960-1969

Olesen, Norman L., Professor (Physics), 1969-1985

Palmer, John W., Assistant Professor Emeritus (Interdisciplinary Social Sciences), 1970-1981

Palmer, Robert E., Sr., Associate Professor (Adult and Vocational Education), 1970-1985

Parrish, James A., Associate Professor (Mathematics), 1966-1988

*Parrish, James A., Jr. (Deceased), Professor Emeritus (English), 1960-1985

Patterson, Gerald E., Associate Professor (Adult and Vocational Education), 1971-1988

Pearcy, Walter E., Jr., Instructor (Childhood and Language Arts Education), 1970-1985

Pierce, Carmel J., Counselor/Advisor (Student Personnel Advising), St. Petersburg Campus, 1970-1985

Pope, James S., Lecturer (Education), 1969-1976

Prather, Sam, Associate Professor (Elective Physical Education), 1962-1983

*Preodor, Edward, Professor Emeritus (Music), 1960-1985

Prescott, Gerald R., Associate Professor (Music Education), 1968-1972

Rackow, Jeanne, Associate Professor (Nursing), 1973-1987

Ragan, Wendell J., Professor (Geology), 1960-1987

*Ray, James D., Jr. (Deceased), Professor Emeritus (Biology), Dean Emeritus (Natural Sciences), 1959-1983
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