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<tr>
<td>SOP 4004</td>
<td>SOCIAL PSYCHOLOGY</td>
<td>(3)</td>
<td>PR: PSY 3213 with a grade of C or better or Cl. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.</td>
</tr>
<tr>
<td>SOP 4714</td>
<td>ENVIRONMENTAL PSYCHOLOGY</td>
<td>(3)</td>
<td>PR: PSY 2012 or PSY 3044 or Cl. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.</td>
</tr>
<tr>
<td>PAD 3003</td>
<td>INTRODUCTION TO PUBLIC ADMINISTRATION</td>
<td>(3)</td>
<td>Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.</td>
</tr>
<tr>
<td>PAD 4202</td>
<td>PUBLIC FINANCIAL ADMINISTRATION</td>
<td>(3)</td>
<td>Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.</td>
</tr>
<tr>
<td>PAD 5035</td>
<td>ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY</td>
<td>(3)</td>
<td>Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.</td>
</tr>
<tr>
<td>PSS 3044</td>
<td>EXPERIMENTAL PSYCHOLOGY</td>
<td>(3)</td>
<td>PR: PSY 2012 or Cl. Designed as an in-depth examination of the basic principles and concepts of psychology. Extensive coverage will be given to the areas of learning, perception, and neuropsychology.</td>
</tr>
<tr>
<td>PSY 5065</td>
<td>ADMINISTRATIVE LAW</td>
<td>(3)</td>
<td>Analysis of the regulatory functions and processes in the American political system: regulatory commissions, their functions, powers, management, reforms, and relationship with other branches of government.</td>
</tr>
<tr>
<td>PSY 5070</td>
<td>RESEARCH METHODS IN PSYCHOLOGY</td>
<td></td>
<td>This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.</td>
</tr>
<tr>
<td>EGC 5060</td>
<td>REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS</td>
<td>(3)</td>
<td>This introductory course (1) surveys the theories, concepts, and attitudes involved in helping disabled or unable persons become increasingly able. (2) provides initial experiences with these counseling perspectives and methods and their personal application.</td>
</tr>
<tr>
<td>EGC 5065</td>
<td>FOUNDATIONS AND ETHICS</td>
<td>(4)</td>
<td>An overview of rehabilitation history and introduction to rehabilitation processes and ethical issues in the public and private sectors. Ethical, legal, and professional standards in rehabilitation and mental health counseling are emphasized.</td>
</tr>
<tr>
<td>EGC 5376</td>
<td>MEDICAL ASPECTS OF DISABILITY</td>
<td>(4)</td>
<td>PR: EGC 5065 or Cl. A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.</td>
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<tr>
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<tr>
<td>EGC 5493</td>
<td>SEMINAR I: HUMAN DEVELOPMENT THEORY IN COUNSELING</td>
<td>(3)</td>
<td>PR: EGC 5065, EGC 5725 or Cl. Human development theory as applied in psychotherapy and case management in mental health, addictions, and other rehabilitation settings. Must be taken concurrently with EGC 5850. (S/U Only.)</td>
</tr>
<tr>
<td>EGC 5725</td>
<td>INTERPERSONAL COUNSELING I: PERSONALITY THEORY</td>
<td>(4)</td>
<td>PR: Cl. Focuses on the utilization of one's self in rehabilitation and mental health counseling relationships. Emphasis on the experiential exploration and development of interpersonal skills within the context of personality theories.</td>
</tr>
<tr>
<td>EGC 5850</td>
<td>PRACTICUM I</td>
<td>(1)</td>
<td>PR: EGC 5065, EGC 5725 or Cl. Supervised experience and participation in counseling in a variety of rehabilitation settings for a minimum of 120 hours. Must be taken concurrently with EGC 5493. (S/U Only.)</td>
</tr>
<tr>
<td>REL 3905</td>
<td>DIRECTED STUDIES</td>
<td>(1-4)</td>
<td>PR: Cl. Supervised rehabilitation studies relevant to student's professional development. May be repeated for a maximum of 8 hours credit.</td>
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**RELIGIOUS STUDIES**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>REL 2300</td>
<td>INTRODUCTION TO WORLD RELIGIONS -6A</td>
<td>(3)</td>
<td>Belief structures and behaviors of native American religions, Hinduism, Buddhism, Chinese religions, Judaism and Islam, examined in films and in the reading of core religious texts.</td>
</tr>
<tr>
<td>REL 3003</td>
<td>INTRODUCTION TO RELIGION</td>
<td>(3)</td>
<td>This course examines the phenomenon of religion to answer the question: Religion, what is it? Religious thought (mythology and theology) and religious behavior (ritual and morality) are closely examined.</td>
</tr>
<tr>
<td>REL 3120</td>
<td>RELIGION IN AMERICA</td>
<td>(3)</td>
<td>To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.</td>
</tr>
<tr>
<td>REL 3131</td>
<td>NEW RELIGIONS IN AMERICA</td>
<td>(3)</td>
<td>A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.</td>
</tr>
<tr>
<td>REL 3145</td>
<td>WOMEN AND RELIGION -6A</td>
<td>(3)</td>
<td>Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Women's Studies.)</td>
</tr>
<tr>
<td>REL 3170</td>
<td>RELIGION, ETHICS AND SOCIETY -6A</td>
<td>(3)</td>
<td>Explores the relations between religion, ethics, and society in Eastern and Western cultures, and the critical problems raised by the emergence of modern, secularized civilization. Open to majors and non-majors.</td>
</tr>
<tr>
<td>REL 3210</td>
<td>HEBREW BIBLE/OLD TESTAMENT</td>
<td>(4)</td>
<td>An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people. REL 3210 and REL 4221 may not both be credited toward the major.</td>
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**Additional Courses**

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<tr>
<td>REL 3240</td>
<td>INTRODUCTION TO THE NEW TESTAMENT</td>
<td>(3)</td>
<td>An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D. REL 3240 and REL 4244 may not both be credited toward the major.</td>
</tr>
<tr>
<td>REL 3280</td>
<td>BIBLICAL ARCHAEOLOGY</td>
<td>(3)</td>
<td>An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.</td>
</tr>
<tr>
<td>REL 3310</td>
<td>WORLD RELIGIONS</td>
<td>(5)</td>
<td>An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam from the Near East and Hinduism, Taoism, Confucianism, and Buddhism from the Far East. General comparison of Western and Eastern beliefs.</td>
</tr>
<tr>
<td>REL 3330</td>
<td>THE RELIGIONS OF INDIA</td>
<td>(3)</td>
<td>All religions of the world came to India and all became Indian. What is this &quot;indianness&quot; which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islamic, Brahmanism and Bahai. Readings from classical texts and modern literature.</td>
</tr>
<tr>
<td>REL 3350</td>
<td>RELIGIONS OF CHINA AND JAPAN</td>
<td>(3)</td>
<td>This course will investigate the philosophy of ancient China and its two major interpreters, Lao Tzu and Confucius. It will also look at the native Japanese Shinto religion.</td>
</tr>
<tr>
<td>REL 3420</td>
<td>CONTEMPORARY RELIGIOUS THOUGHT</td>
<td>(3)</td>
<td>An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Buttmann, Bonhoeffer, Rahner, Tillech, Cox, Altszuk, Buber, Niebuhr.</td>
</tr>
<tr>
<td>REL 3500</td>
<td>HISTORY OF CHRISTIANITY</td>
<td>(4)</td>
<td>The historical development of Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.</td>
</tr>
<tr>
<td>REL 3600</td>
<td>INTRODUCTION TO JUDAISM</td>
<td>(3)</td>
<td>An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.</td>
</tr>
<tr>
<td>REL 3611</td>
<td>HISTORY OF JUDAISM I</td>
<td>(3)</td>
<td>A study of the evolution of the religion of ancient Israel from the Exodus to the end of the second century of our era, seen against the background of its historical, geographical, political, social and spiritual setting.</td>
</tr>
<tr>
<td>REL 3612</td>
<td>HISTORY OF JUDAISM II</td>
<td>(3)</td>
<td>A study of the history of Judaism and the Jews from the third century of our era through the Middle Ages to the Emancipation in the 19th century. Taking History of Judaism I first is advantageous.</td>
</tr>
<tr>
<td>REL 3613</td>
<td>MODERN JUDAISM</td>
<td>(2)</td>
<td>A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.</td>
</tr>
<tr>
<td>REL 3900</td>
<td>DIRECTED READINGS</td>
<td>(1-4)</td>
<td>PR: Cl. Individual guidance in concentrated reading on a selected topic.</td>
</tr>
<tr>
<td>REL 3921</td>
<td>COLLOQUIUM</td>
<td>(1)</td>
<td>This colloquium will be held at least 3 times each semester in order to bring all religious studies faculty and undergraduate majors together to discuss research of a particular faculty member, student, or guest scholar. May be repeated up to 3 semester hours. (S/U only.)</td>
</tr>
<tr>
<td>REL 3936</td>
<td>SELECTED TOPICS</td>
<td>(1-4)</td>
<td>PR: Cl. Course contents depend on students’ needs.</td>
</tr>
<tr>
<td>REL 4161</td>
<td>RELIGION, TECHNOLOGY AND SOCIETY</td>
<td>(3)</td>
<td>An exploration of the way in which religion and technology have interacted in Western civilization so as to both express and transform human values and identity. Special emphasis will be given to the value questions raised by modern technology. Open to majors and non-majors.</td>
</tr>
<tr>
<td>REL 4162</td>
<td>RELIGION, SCIENCE AND SOCIETY</td>
<td>(3)</td>
<td>This course will explore the religious roots of science and the history of its emancipation. Special emphasis will be given to the interaction between science, religion, and society.</td>
</tr>
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</table>
of religion and science in contemporary society. Open to majors and non-majors.

REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A (3)
PR: Jr. standing or CI. This course will survey several major approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society. Open to majors and non-majors.

REL 4193 COMPARATIVE MYSTICISM (4)
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics.

REL 4221 HEBREW BIBLE I/OLD TESTAMENT-LAW AND HISTORY (4)
An examination of the Pentateuch (Torah) from the point of view of its literary development, religious traditions, historical background, law, covenant theology, and the history of the religion of Israel.

REL 4224 HEBREW BIBLE II/PROPHETS AND WRITINGS (4)
PR: REL 3210 or REL 4221 or CI. An investigation of the prophetic movement and the historical and cultic writings in Israel from the point of view of theological developments, history presupposed, and the religious institutions depicted. Special attention is given to a theme such as Job and the problem of evil.

REL 4244 NEW TESTAMENT I: GOSPELS, ACTS (4)
An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 JESUS’ LIFE AND TEACHINGS (4)
PR: CI. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 NEW TESTAMENT II: THE LETTERS OF PAUL AND OTHER NEW TESTAMENT WRITINGS (4)
PR: REL 4244 or REL 3240 or CI. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul’s letters and in other writings of the New Testament. Special attention is given to the program of Apocalyptic, as in the book of Revelation.

REL 4333 HINDUISM (4)
The philosophy of the saints; the complex rituals of the Brahmans; the art of its temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activity of Mahatmas; the tradition of the Vedas; and the close readings of classical texts, philosophical systems and medieval poems.

REL 4343 BUDDHISM IN INDIA, SRI LANKA, AND SOUTH EAST ASIA (4)
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

REL 4344 BUDDHISM IN CHINA, JAPAN, AND TIBET (4)
Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.

REL 4506 FROM MYTH TO CHRISTIANITY (4)
Study of the religions/mythologies of the ancient Middle East and Eastern Mediterranean and how their influences shaped the theology and practices of Christianity up to the end of the fourth century; influences many of which continue to be evident in the traditional beliefs and practices of Judaism and Christianity.

REL 4670 JUDAISM AND CHRISTIANITY AFTER THE HOLOCAUST -6A (4)
This course will explore the impact of the Holocaust on Jewish and Christian thought and identity in the light of the history of religious and cultural anti-semitism in Western civilization. Open to majors and non-majors.

REL 4910 UNDERGRADUATE RESEARCH (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4931 SEMINAR IN RELIGION (3)
A course designed for persons, especially Religious Studies majors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

REL 4936 SELECTED TOPICS (1-4)
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4939 THE DEVELOPMENT OF RELIGIOUS STUDIES (3)
Course designed for senior majors (and minors) in religious studies to complement REL 4931 (Senior Seminar). Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

Ancient Studies Sequence

CLA 3000 ANCIENT CIVILIZATIONS (4)
Study of the character, ideas, and cultural achievements of the peoples of the Ancient Middle East and Mediterranean and their relevance for modern Western civilization.

CLA 3100 HISTORY OF THE ALPHABET (2)
Study, in reasonable detail, of the evolution of our "Roman" alphabet, as well as of other ancient and modern alphabets, from the writing system of ancient Egypt.

CLA 4160 EGYPTIAN CIVILIZATION (3)
Study of the Ancient Egyptian civilization, including customs, religion, art and architecture, language and literature, science and the calendar, and an introduction to hieroglyphic writing. (Alternate years.)

CLA 4171 MESOPOTAMIAN CIVILIZATION (3)
Study of the Ancient Mesopotamian (Sumero-Babylonian) civilization, including customs, religion, art and architecture, languages and literatures, science and the calendar, and an introduction to cuneiform writing. (Alternate years.)

CLA 4900 DIRECTED READINGS (1-4)
PR: Consent of coordinator prior to registration. Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

CLA 4930 SELECTED TOPICS (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages, literatures, and civilizations. Offerings on a semi-regular basis include Tongues of the Bible (2), and The Bible as History (3).

HEB 1120, 1121 BASIC HEBREW I, II (4,4)
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

NOTE: In any of the numbers CLA 4900, CLA 4930, enrollment is repeatable for different subject matters.

SOCIAL WORK

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3)
PR: All pre-core courses. Restricted to Social Work majors, others by Department permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, families and groups.

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (3)
PR: SOW 3101. Restricted to Social Work majors; others by Department permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with organizations and communities.

SOW 3203 THE AMERICAN SOCIAL WELFARE SYSTEM (2)
An introductory course tracing the development of the American social welfare system.
### SOW 3302 INTRODUCTION TO SOCIAL WORK (3)
An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

### SOW 3401 RESEARCH AND STATISTICS FOR SOCIAL WORK (4)
PR: All pre-core courses. Restricted to Social Work majors, others by Department permission. The purpose of this course is to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

### SOW 4233 SOCIAL WELFARE: POLICY & PROGRAM (4)
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. This advanced policy course takes an analytical approach to contemporary social welfare policy issues and current social welfare programs.

### SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION (5)
PR or CR: SOW 3101, SOW 3401. Restricted to Social Work majors; others by Department permission. First practice course emphasizing development of skills and interactive methods with individuals, families, and small groups. Course includes both didactic and experiential learning components.

### SOW 4510 FIELD PLACEMENT (10)
PR: Completion of all social work core courses except SOW 4522. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field and 4 hours per week in an integrated practice seminar which constitutes the third and final course in the practice sequence.

### SOW 4522 SENIOR SEMINAR (2)
PR: All pre-core courses; all core Social Work courses, except that SOW 4510 may be taken as CR. This course is the final course taken in the BSW curriculum. It is restricted to Social Work majors in their final stages of the senior year. The course serves as a means for assisting the student in synthesizing and integrating his/her learning experiences in the BSW program.

### SOW 4900 DIRECTED READINGS (1-6)
PR: Completion of four social work courses including SOW 3401, upper level standing, and Department permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed. May be repeated up to 6 credit hours.

### SOW 4930 VARIABLE TOPICS IN SOCIAL WORK (1-3)
Restricted to Social Work majors; others by Department permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

### SOW 5930 SELECTED TOPICS IN SOCIAL WORK (1-4)
Restricted to Social Work majors, both graduate and undergraduate; others by Department permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.

### SYA 3300 SOCIAL INVESTIGATION (3)

### SYA 3500 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)
PR: Major in the College of Social and Behavioral Sciences and CR in an upper level course. For students majoring in some other college, approval by major professor and instructor of course are both required, but concurrent registration in one of the social and behavioral science courses is maintained. The consideration of the theoretical and technical requirements for expressing social science concepts and propositions on film. Film planning, camera techniques, editing silent film, and the utilization of the independent sound (tape cassette) in the commentary film. Ethics of film making.

### SYA 3504 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (1)
PR: SYA 3503, CR in a course in the social and behavioral sciences with instructor's approval to enable student to make a film in lieu of some other course requirement. A continuation of lab and field work in the making of commentary films. Camera, editorial, and problems of independent sound solved in the context of making a film in one of the social sciences. Does not count for sociology major credit. May be repeated for a maximum of three credits. (S/U only.)

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

### SYA 4430 COMPUTERS IN SOCIOLOGICAL RESEARCH (3)
Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis. (S/U only.)

### SYA 4910 INDIVIDUAL RESEARCH (1-3)
PR: Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or CI. Content dependent upon interest and competence of student. A contract specifying the work to be done must be completed and signed by both the student and the chairperson of the department before registration for this course will be permitted. May be repeated for credit. Up to 3 credits may be counted towards meeting major electives requirement.

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

### SYA 4935 SENIOR SEMINAR (3)
For seniors majoring in sociology or other social sciences. Major emphasis is on the structure, method, and theory of sociology.

### SYA 5949 SOCIOLOGICAL INTERNSHIP (1-6)
PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting. May be repeated up to 6 credit hours. (S/U only.)

### SYD 3700 RACIAL AND ETHNIC RELATIONS (3)
PR: SYG 2000 or CI. Comparative study of inter racial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

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

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

### SYD 4441 COMPARATIVE RURAL SOCIOLOGY (3)
PR: SYG 2000 or CI. The study of rural life in the United States; compares the situation in the United States with that of other societies as well as other times in history; some aspects of rural peasant societies and experiments in rural community formation.

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

**SYG 2000 INTRODUCTION TO SOCIOLOGY** (3)
Nature and application of sociological concepts, theories, and methods; analysis of societies, associations and groups; social processes and social change.

**SYG 2412 MARRIAGE** (3)
Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

**SYG 3010 CONTEMPORARY SOCIAL PROBLEMS** (3)
Application of sociological concepts and principles to the diagnosis and analysis of major social problems of modern societies. Does not count for sociology major credit.

**SYO 3120 THE FAMILY** (3)
PR: SYG 2000 or Cl. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

**SYO 3200 SOCIOLOGY OF RELIGION** (3)
PR: SYG 2000 or Cl. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

**SYO 3500 SOCIAL ORGANIZATION** (3)
PR: SYG 2000 or Cl. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

**SYO 3530 SOCIAL STRATIFICATION** (3)
PR: SYG 2000 or Cl. Social status and social stratification, social class as a factor in behavior, social mobility.

**SYO 4200 POLITICAL SOCIOLOGY** (3)
PR: SYG 2000 or Cl. An examination of the social factors that affect government, politics, and political behavior.

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

**SYO 4400 SOCIOLOGY OF MEDICINE** (3)
PR: SYG 2000 or Cl. An examination of the major theoretical and methodological tools used by sociologists in studying medical care. A representative sampling of medical sociological studies will be reviewed and discussed.

**SYO 5365 INDUSTRIAL SOCIOLOGY** (3)
PR: SYG 2000 or Cl; upper level standing. Interaction, communication and authority in economic organization; the factory as a social system.

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

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

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

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

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

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

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

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

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

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

**SYP 5055 SOCIAL INTERACTION** (3)
PR: SYG 2000 or Cl; upper level standing. Interpersonal influence, complex behavior, role, conflict, and social situational factors.

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

**WOMEN'S STUDIES**

**AFA 4335 BLACK WOMEN IN AMERICA** (3)
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience. (May also be taken for credit in African and Afro-American Studies.)

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

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

**AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY -6A** (3)
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)

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

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

**POS 4693 WOMEN AND LAW I**
Introduction to issues concerning the legal aspects of sex and sex-based discrimination in the United States, and the legal system as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues, open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

**POS 4694 WOMEN AND LAW II**
PR: POS 4693 or Cl. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on marriage and sexual harassment issues as they relate to women and men. (May also be taken for credit in Government and International Affairs.)

**PUP 4223 WOMEN AND POLITICS**
An analysis of the impact of gender on power and influence in
American society, and women's changing role in the political process. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

**REL 3145 WOMEN AND RELIGION -6A** (3)
Status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Religious Studies.)

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

**SYD 4800 SOCIOLOGY OF SEX ROLES** (3)
PR: SYG 2000, WST 3010 or 3011; or Cl. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (May also be taken for credit in Sociology.)

**WST 3010 INTRODUCTION TO WOMEN'S STUDIES** (3)
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.

**WST 3011 ISSUES IN FEMINISM** (3)
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

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

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

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

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

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

**WST 3360 MEN AND SEXISM** (3)
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning, and alternatives to masculine sex role models.

**WST 4309 THE FEMALE EXPERIENCE IN AMERICA** (3)
The female experience in America, in historical context, viewed through the writings of women of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in History.)

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

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

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

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

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

**WST 4930 SELECTED TOPICS** (1-4)
PR: WST 3010 or Cl. Study in special areas such as Feminist Ethics, Women Artists, etc.

**WST 4935 SEMINAR IN WOMEN'S STUDIES** (3)
PR: WST 3010 or Cl. In-depth study of research in one or more areas of topical interest to students and staff. Research involvement by students required.

**WST 5934 SELECTED TOPICS** (1-4)
Study of current research methods and scholarship on women from a multidisciplinary perspective. May be repeated as topics vary. (Cl.)
ECONOMICS


FINANCE

Chairperson: G. Kanatas; Lykes Professor of Banking & Finance: J. L. Papas; University Distinguished Service Professor and Sergei Bonanni Distinguished Professor of International Finance: A. Beenhakker; Professors: A. Beenhakker, S. E. Bolten, R. G. Cox, G. Kanatas, S. Kapcins, R. L. Meyer, F. B. Power, A. Schwartz, K. F. Wiede; Associate Professors: S. Besley, S. B. Bulmash, D. A. Johnson, P. Kares, R. J. Rivard; Assistant Professors: H. W. Lee, W. G. Modrow, S. Quintero; Other Faculty: J. Rader.

INFORMATION SYSTEMS AND DECISION SCIENCES


MANAGEMENT


MARKETING


ACCOUNTING/LAW

ACG 2001 FINANCIAL AND MANAGERIAL ACCOUNTING I (3) Study of basic accounting principles including the recording and reporting of financial activity. Preparation and interpretation of financial statements.


ACG 3074 MANAGERIAL ACCOUNTING FOR ENGINEERS (3) The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.

ACG 3102 INTERMEDIATE ACCOUNTING I (4) PR: ACG 3101. Measurement theory and methodology underlying income measurement and reporting of financial position. The study of compound interest fundamentals, cash, temporary investment, receivables, inventories, property and equipment, intangibles, and long term investments.


ACG 3341 COST ACCOUNTING AND CONTROL (3) PR: FIN 3403, QMB 3200. Deals with relevant costs for decision making, standards and job order costing, flexible budgeting direct and absorption costing, regression analysis and decision models.

ACG 3401 ACCOUNTING INFORMATION SYSTEMS (3) PR: ACG 3102, and QMB 2000. Manual and computer-based accounting systems, including order processing, accounts receivable, inventory management, and responsibility accounting systems. Emphasis on internal control, efficiency, and provision of useful information.

ACG 4201 ADVANCED ACCOUNTING (4) PR: ACG 3112. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, accounting for international operations and partnership.

ACG 4351 COST ACCOUNTING AND CONTROL II (3) PR: ACG 3341. Further development of the material covered in ACG 3341 with special emphasis on cost allocation issues and accounting in the new manufacturing environment.


ACG 4532 AUDITING I (3) PR: ACG 3112, ACG 3401, and QMB 3200. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.

ACG 4542 AUDITING II (3) PR: ACG 4532. Further development of material covered in ACG 4532, with special emphasis on additional reporting topics and audit techniques not previously addressed.

ACG 4801 CONTEMPORARY ACCOUNTING THOUGHT (3) PR: Intermediate Accounting II or equivalent. An in-depth coverage of selected topics in accounting. Emphasis is placed on current significant developments that have taken place in the profession which the student should have for a well-rounded background in accounting but have not been exposed to in previous courses. Available to majors and nonmajors.

ACG 4901 INDEPENDENT STUDY (1-3) PR: Consent of Director. Specialized independent study determined by the students' needs and interests. May be repeated up to 8 credit hours. (S/U only.)

ACG 4911 INDEPENDENT RESEARCH (1-4) PR: Consent of Director. Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

ACG 4931 SELECTED TOPICS IN ACCOUNTING (1-4) PR: CI. The course content will depend on student demand and instructor's interest.

ACG 5935 SELECTED TOPICS IN ACCOUNTING (1-4) PR: CI. To allow advanced undergraduate students and graduate
students to research and study contemporary and emerging topics in the field. May be repeated up to 6 credit hours.

**TAX 4001 FEDERAL TAXES I**
PR: AC2 2011. An introduction to the federal income tax structure. Use of tax services and the concept of taxable income primarily applicable to individuals.

**TAX 4011 FEDERAL TAXES II**
PR: TAX 4001. Advanced study of the federal income tax structure. Special topics and the concept of taxable income as it applies primarily to business enterprises.

**ECONOMICS**

**ECO 2023 ECONOMIC PRINCIPLES (MACROECONOMICS)**
PR: ECO 2023. Introduction to the theory of income determination with emphasis on applications of monetary and fiscal policies. Topics discussed are: objectives of full employment, price stability, economic growth, and balance of payments stability.

**ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS)**
Fundamental economic concept of scarcity, and the problem of choice. How an economy decides what to produce, how to produce and how to distribute goods and services to participants in the economy. Attention is focused on factors affecting consumer wants and the determination of prices in markets.

**ECO 2935 SELECTED TOPICS IN ECONOMICS**
91-30
PR: CI. Topics to be selected by department chairperson. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business Administration.

**ECO 3101 INTERMEDIATE PRICE THEORY**
PR: ECO 2023. Analysis of supply and demand as related to product and resource pricing under the various market structures.

**ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS**
PR: ECO 2013 and ECO 3101 with a grade of "C" or better. Analysis of the determination of income, employment, prices, and interest rates. Emphasis is placed on the interaction of aggregate demand and aggregate supply.

**ECO 3222 AMERICAN ECONOMIC HISTORY**
PR: ECO 2023. The growth and evolution of American economic institutions from Colonial times to the present.

**ECO 3703 INTERNATIONAL ECONOMICS**
PR: ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Emphasis is placed on the bases of trade and the nature of gains from trade, balance of payments, exchange rate determination, equilibrating mechanisms for restoring balance of payments stability and international commercial policy.

**ECO 4213 MONETARY THEORY**
PR: ECO 3203. Examination of the impact of the financial sector on real and nominal economic magnitudes. The course approaches its subject matter through the theory of portfolio and capital adjustment.

**ECO 4303 HISTORY OF ECONOMIC THOUGHT**
PR: ECO 3101 with a grade of "C" or better. The development of economics schools of thought, from Plato to Marshall, are traced and analyzed. The impact of historical and political conditions will be stressed.

**ECO 4323 MARXIST POLITICAL ECONOMY**
PR: ECO 2013, or CI. An examination of the Marxist school of thought in economics. Application of Marxist economic theory to problems of advanced capitalist and socialist societies.

**ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS**
PR: ECO 2013, and QMB 3200, MAC 3230, or CI. Econometric analysis using mathematical tools such as matrix algebra and differential calculus. Models of optimizing behavior and economic equilibrium.

**ECO 4504 PUBLIC FINANCE**
PR: ECO 3101 with a grade of "C" or better. Examination of the public sector and its contribution to economic welfare. Government expenditures and revenues in relation to their impact on resource allocation, income distribution, stabilization, and economic growth.

**ECO 4713 INTERNATIONAL MONETARY RELATIONS**

**ECO 4723 INTERNATIONAL COMMERCIAL POLICIES**
PR: ECO 3101 with a grade of "C" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, and multinational enterprise.

**ECO 4905 INDEPENDENT STUDY**
(1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (S/U only.)

**ECO 4914 INDEPENDENT RESEARCH**
(1-3)
PR: CI. 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 hours.

**ECO 4935 SELECTED TOPICS IN ECONOMICS**
(1-3)
PR: CI. Topics to be selected by the instructor or instructors on pertinent economic issues.

**ECO 5407 ECONOMIC PROGRAMMING AND CONTROL**

**ECO 5424 ECONOMETRICS I**
PR: ECO 3203 or GEB 6717 and QMB 3200 or GEB 6756, or CI. Chairperson approval required for undergraduates. Theory and use of multiple regression to estimate relationships in causal models, to analyze economic behavior and to forecast the outcome of economic disturbances. Use of standard software packages. Estimation and interpretation of regression equations.

**ECO 5425 ECONOMETRICS II**
PR: ECO 5424. Chairperson approval required for undergraduates. Advanced econometric techniques; model building, estimation and forecasting; design and execution of individual research projects.

**ECP 3203 LABOR ECONOMICS**
PR: ECO 3101 with a grade of "C" or better. An examination of the determinants of wage and employment levels; occupation, industrial and geographical wage differentials, union and public policy effects on labor markets; the economics of discrimination; inflation and unemployment.

**ECP 3413 BUSINESS-GOVERNMENT RELATIONSHIPS**

**ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT**
PR: ECO 3101 and ECO 2023. Economic analysis of the phenomena of cities as well as urban social problems including poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.

**ECP 4222 COLLECTIVE BARGAINING AND PUBLIC POLICY**
PR: ECO 3203 or CI. Administration of labor management agreements, etc. Impact of the government role in collective bargaining and labor relations will be examined in light of current labor laws and judicial interpretations.

**ECP 4451 LAW AND ECONOMICS**
PR: ECO 3101 with a grade of "C" or better. An advanced analysis of the economic impact in the areas of: Tort, Criminal, Property and Contract Law as well as in the formation and adjudication of law.

**ECP 5405 INDUSTRIAL ORGANIZATION**
PR: ECO 3101 with a grade of "C" or better or GEB 6716. Chairperson approval required for undergraduates. Application of microeconomic theory to a variety of issues concerning the structure,
FIN 3400 DEVELOPMENT OF ECONOMIC AND POLICY (3)
PR: Prerequisite: FIN 3000 or equivalent. Focuses on the development of economic and policy issues in emerging nations. Benefits and risks of economic development and the role of international organizations. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process.

FIN 4443 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT (3)
PR: FIN 4404. A comprehensive survey of security analysis and portfolio management. Course will utilize a quantitative approach to investment selection and management.

FIN 4505 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

FIN 4506 ADVANCED CORPORATION FINANCE (3)
PR: FIN 3403. An examination of the financial policies of corporations, with special reference to dividend policy, risk structure, capital expenditures, acquisitions, mergers, and reorganization.

FIN 4507 FINANCIAL POLICIES AND STRATEGIES (3)
PR: FIN 4414. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4509 PRINCIPLES OF INVESTMENTS (3)
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process.

FIN 4514 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT (3)
PR: FIN 4404. A comprehensive survey of security analysis and portfolio management. Course will utilize a quantitative approach to investment selection and management.

FIN 4505 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to six credit hours. (S/U only.)

FIN 4515 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

FIN 4524 SELECTED TOPICS IN INVESTMENT MANAGEMENT (1-3)
PR: CI. Topics to be selected by instructor and department chairperson on pertinent Finance issues.

FIN 3403 PRINCIPLES OF REAL ESTATE (3)
Economics of urban land utilization and the nature of property rights. Problems of urban development and the valuation of real property in terms of the structure and operations of the real estate market.

REE 3043 PRINCIPLES OF REAL ESTATE (3)
REE 3043. Comprehensive coverage of the basic concepts and principles of real estate appraisal. Emphasis placed on the use of valuation tools for the appraisal of real estate with emphasis on residential property.

REE 4103 REAL ESTATE APPRAISAL (3)
PR: REE 3043. Comprehensive coverage of the basic concepts and principles of real estate appraisal. Emphasis placed on the use of valuation tools for the appraisal of real estate with emphasis on residential property.

REE 4143 INCOME PROPERTY VALUATION (3)
PR: REE 3043 and FIN 3403. Application of general appraisal methodologies and financial analysis to the valuation of income producing properties. Focus is on the income approach to valuation.

REE 2024 REAL ESTATE FINANCE (3)
PR: REE 3043. A comprehensive analysis of the institutional and legal framework of real estate financing together with an introduction to the financing techniques which are traditionally utilized to finance real estate. Includes methods of raising debt and equity funds. Analysis of real property for financing purposes is stressed in a decision-making context and how that decision affects the real estate investment.

REE 4143 REAL ESTATE INVESTMENT ANALYSIS (3)
PR: FIN 3403, REE 3043. A comprehensive study of the determinants of the market and financial feasibility of the real estate investment decision. The development of market and site analyses, theories or urban development patterns, and the role of taxation will be studied along with the application of analytical techniques for decision making.

REE 4313 REAL ESTATE FEASIBILITY ANALYSIS (3)
PR: REE 3703, REE 4143, and GMB 3200. A comprehensive and in-depth study of the determinants of the market and financial feasibility of the real estate investment decision.
### INFORMATION SYSTEMS AND DECISION SCIENCES

**CGS 2000 COMPUTERS IN BUSINESS -6A**

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**

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**

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 4212 DATABASE ADMINISTRATION**


**ISM 4220 DISTRIBUTED INFORMATION SYSTEMS**

PR: ISM 3111, ISM 3112. Analysis, design, implementation and management of distributed information systems and networks.

**ISM 4290 SENIOR SEMINAR IN INFORMATION SYSTEMS**

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**

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**

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

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 micro-computers.

**MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH**

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**

PR: MAN 4504 or CI. 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.

**ISM 4905 INDEPENDENT STUDY**

Independent study as directed by designated faculty. May be repeated up to 8 credit hours. (S/U only)
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 students needs and interests. May be repeated up to 8 credit hours. (S/U only.)

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

MAN 4931 INDEPENDENT RESEARCH (1-4)
PR: CI. 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.

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 3103 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MAR 3613</td>
<td>MARKETING RESEARCH</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 3823</td>
<td>MARKETING MANAGEMENT</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4156</td>
<td>INTERNATIONAL MARKETING</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4203</td>
<td>CHANNELS MANAGEMENT</td>
<td>3</td>
<td>A detailed study of marketing channels as a functional area of marketing management responsibility and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic interrelationships including distribution logistics.</td>
</tr>
<tr>
<td>MAR 4213</td>
<td>LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4231</td>
<td>RETAILING MANAGEMENT</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4333</td>
<td>PROMOTION MANAGEMENT</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4403</td>
<td>SALES MANAGEMENT</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4453</td>
<td>INDUSTRIAL MARKETING</td>
<td>3</td>
<td>A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and distribution channels, sales, management, research and promotional practices, marketing policies and strategies.</td>
</tr>
<tr>
<td>MAR 4803</td>
<td>BUYER BEHAVIOR</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4824</td>
<td>MARKETING MANAGEMENT PROBLEMS</td>
<td>3</td>
<td>A study of marketing problems faced by firms, and the coordination with other major functional areas. Includes characteristics of the markets and distribution channels, sales, management, research and promotional practices, marketing policies and strategies.</td>
</tr>
<tr>
<td>MAR 4905</td>
<td>INDEPENDENT STUDY</td>
<td>1-3</td>
<td>An independent 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.</td>
</tr>
<tr>
<td>MAR 4903</td>
<td>SELECTED TOPICS IN MARKETING</td>
<td>1-3</td>
<td>Topics to be selected by instructor and department chairperson.</td>
</tr>
</tbody>
</table>
COLLEGE OF EDUCATION

ADULT AND VOCATIONAL EDUCATION
Chairperson: W. E. Blank; Professor: F. F. Johnson; Associate Professors: W. E. Blank; C. H. Collier, R. Hill, W. B. James, G. P. Patterson, C. Welter; Assistant Professor: D. B. Briscoe; Visiting Assistant Professors: M. Gazvoda, R. Hicks; Visiting Instructors: P. Ebbs, E. Gallagher, S. Gentry, J. Grisham, J. Scaglione; Other Faculty: S. Casper, K. Childress, M. Paul, S. Stokes.

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. Hutchcroft; Assistant Professor: R. F. Dedrick.

PHYSICAL EDUCATION

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

SECONDARY EDUCATION

SPECIAL EDUCATION
Chairperson: J. Paul; Professors: L. Bowers, E. Gurtzloe, S. Kiesius, C. D. Lavelly, A. J. Mauser, S. P. Singh; Research Professors: W. Rhodes; Associate Professors: B. Epanchin, D. Evans, J. A. Merica, H. A. Sproles; Assistant Professors: A. Cranston-Gingras, D. Thomas; Other Faculty: M. Gazvoda, D. Harris, H. Roselli.

ADULT EDUCATION
ADE 4384 WORKING WITH THE ADULT LEARNER: ADULT EDUCATION (3) 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 EXPERIMENTAL BASIS OF ARTISTIC MIND (3) 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 (3) 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 to further enable the student to understand stages of young people, three to eighteen.

ARE 4112 EDUCATION THROUGH CRAFTS (3) An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials.

ARE 4290 SEMINAR IN ART EDUCATION (1-3)

CLASSROOM MANAGEMENT (1) 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 (3) 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 (3) 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 (3) PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique urban spaces and populations as potential new environments for teaching and learning in arts.

ARE 4909 DIRECTED STUDY: ART EDUCATION (1-3) PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.
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<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ARE 4936</td>
<td>SENIOR SEMINAR IN ART EDUCATION</td>
<td>2</td>
</tr>
<tr>
<td>BTE 5245</td>
<td>PROGRAM MANAGEMENT: BUSINESS EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>BTE 4905</td>
<td>INDEPENDENT STUDY: GUIDANCE AND OCCUPATIONS PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>EME 4402</td>
<td>INTRODUCTION TO COMPUTERS IN EDUCATION</td>
<td>2</td>
</tr>
<tr>
<td>EGC 3961</td>
<td>REHABILITATIVE COUNSELING: CONCEPTS AND APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td>EGC 4001</td>
<td>INTRODUCTION TO GUIDANCE PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>EGC 4005</td>
<td>INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION</td>
<td>1-4</td>
</tr>
</tbody>
</table>

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

**BTE 5245 PROGRAM MANAGEMENT: BUSINESS EDUCATION**  
Organization, coordination, and budgeting of adult, cooperative, and special programs.

**OST 3324 BUSINESS AND OFFICE MACHINES**  
Instruction and practice on 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**  
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**  
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.

**BUSINESS AND OFFICE EDUCATION**

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<tbody>
<tr>
<td>BTE 4360</td>
<td>METHODS OF TEACHING: BUSINESS EDUCATION</td>
<td>4</td>
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<tr>
<td>BTE 4364</td>
<td>SPECIAL TEACHING METHODS: BUSINESS EDUCATION</td>
<td>4</td>
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<tr>
<td>BTE 4905</td>
<td>INDEPENDENT STUDY: BUSINESS EDUCATION</td>
<td>1-4</td>
</tr>
<tr>
<td>BTE 4909</td>
<td>DIRECTED STUDY: BUSINESS EDUCATION</td>
<td>1-3</td>
</tr>
<tr>
<td>BTE 4936</td>
<td>SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION</td>
<td>2</td>
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<tr>
<td>BTE 4940</td>
<td>INTERNSHIP: BUSINESS EDUCATION</td>
<td>1-12</td>
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<tr>
<td>BTE 4948</td>
<td>FIELD-BASED SEMINAR IN BUSINESS EDUCATION</td>
<td>3</td>
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<tr>
<td>BTE 5171</td>
<td>CURRICULUM CONSTRUCTION: BUSINESS EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td>EME 5403</td>
<td>MICROCOMPUTERS IN EDUCATION</td>
<td>2-4</td>
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</tbody>
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**COUNSELOR EDUCATION**

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<tbody>
<tr>
<td>EGC 3061</td>
<td>REHABILITATIVE COUNSELING: CONCEPTS AND APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td>EGC 4001</td>
<td>INTRODUCTION TO GUIDANCE PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>EGC 4053</td>
<td>INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION</td>
<td>2</td>
</tr>
<tr>
<td>EGC 4905</td>
<td>INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION</td>
<td>1-4</td>
</tr>
</tbody>
</table>
needs and interests. May be repeated when subjects vary. (S/U only.)

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

**SLS 1101 THE UNIVERSITY EXPERIENCE**
PR: Freshman only or Cl. An extended introduction and orientation to USF. Topics include purposes of higher education, structure and function of USF, overview of the processes of career planning and selecting a major, study skills, and managing out-of-class time.

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

**CURRICULUM AND INSTRUCTION**

**EDG 1300 INTRODUCTION TO TEACHING**
PR: Freshman only or Cl. The people with whom teachers work, the types of tasks they perform and the challenges they can anticipate. Observation of teaching at several grade levels.

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

**DISTRIBUTIVE AND MARKETING EDUCATION**

**DEC 4161 PROGRAM MANAGEMENT OF DISTRIBUTIVE AND MARKETING EDUCATION**
The study of the purposes, processes, organization, planning, directing, coordinating and evaluation of Distributive and Marketing Education Cooperative Programs.

**DEC 4401 SPECIAL TEACHING METHODS:**
DISTRIBUTIVE EDUCATION
Methods, techniques, and materials for skill development.

**DEC 4411 METHODS OF TEACHING:**
DISTRIBUTIVE EDUCATION
Methods, techniques, and materials for instruction.

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

**DEC 4936 SENIOR SEMINAR IN DISTRIBUTIVE AND MARKETING EDUCATION**

**DEC 4940 INTERNSHIP: DISTRIBUTIVE AND MARKETING EDUCATION**
One full semester of internship in a public or private school. Intern takes Senior Seminar in Distributive and Marketing Education concurrently. In special programs where the internship experience is distributed over two or more semesters students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

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

**DEC 5165 PROGRAM MANAGEMENT: DISTRIBUTIVE EDUCATION**
Organization, coordination, and budgeting of adult, cooperative, and special programs.

**ELEMENTARY EDUCATION**

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

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

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

**EDE 4939 DIRECTED STUDY: ELEMENTARY EDUCATION**
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**EDE 4936 SENIOR SEMINAR IN ELEMENTARY EDUCATION**

**EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION**
PR: EDE 4941 and EDE 4492. Teacher candidate is required to demonstrate professional competencies during one semester of full-time internship in a public or private elementary school. Concurrent enrollment in EDE 4936. (S/U only.)

**EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL I**
PR: Admission to the Elementary or Elementary/Early Childhood programs. Students spend six hours per week in a supervised internship setting and attend weekly seminar. Concurrent enrollment in EDE 4620-Elementary section. (S/U only.)

**EDE 4944 CHILDHOOD EDUCATION INTERNSHIP LEVEL II**
PR: EDE 4941. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar.

**EED 2000 INTRODUCTION TO EARLY CHILDHOOD EDUCATION**
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

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

**EED 4203 CREATIVE EXPERIENCES IN EARLY CHILDHOOD EDUCATION**
PR: Admission to College of Education. The development of the child's creative expression through art, music, dance, play, and drama; included are the materials, content, and teaching techniques.

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

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

**EED 4906 DIRECTED STUDY: ELEMENTARY EARLY CHILDHOOD EDUCATION**
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

**EED 4936 SENIOR SEMINAR IN ELEMENTARY EARLY CHILDHOOD EDUCATION**

**EED 4940 INTERNSHIP: ELEMENTARY/EARLY CHILDHOOD**
Teacher candidate is required to demonstrate professional competencies during one semester of full-time internship in a public or private elementary school. Concurrent enrollment in EED 4936. (S/U only.)
HLP 4722 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD
PR: Admission to the College of Education. A study of the importance of movement competency and its contribution to the development of a positive self-concept in children; content and methodology for developing appropriate movement experiences for children; content and methodology for teaching elementary health science.

LAE 4314 LANGUAGE ARTS IN CHILDHOOD EDUCATION
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
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
PR: Admission to College of Education and two college level mathematics courses. Methods for teaching number ideas, computational skills, and mathematical reasoning.

MAE 4326 TEACHING ELEMENTARY SCHOOL MATHEMATICS II
PR: MAE 4310. Methods for teaching informal geometry, measurement, probability and statistics.

MAE 4510 DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS
PR: MAE 4310 or equivalent. Presentation and analysis of teaching methods and models appropriate for use with students experiencing disabilities in mathematics; supervised conduct of a case study.

MUE 4210 MUSIC FOR THE CHILD
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
PR: Admission to College of Education. Prereading, word recognition, comprehension and basic study skills and various reading approaches and reading interests.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE
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
PR: Admission to College of Education or CI. Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.

ENGLISH EDUCATION

LAE 4335 METHODS OF TEACHING ENGLISH - MIDDLE SCHOOL
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 4325 must be taken concurrently with LAE 4530.

LAE 4464 ADOLESCENT LITERATURE FOR MIDDLE AND SECONDARY STUDENTS
PR: English Education majors or CI. 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 4830 METHODS OF TEACHING ENGLISH: PRACTICUM
PR: Senior standing or enrollment in Plan II Master's Program. Required concurrently with LAE 4325 or LAE 4842. Taken one semester (spring or fall) prior to internship.

LAE 4842 METHODS OF TEACHING HIGH SCHOOL - HIGH SCHOOL
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
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

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

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

LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH
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
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
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
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. Prereq: 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.)

FLE 4936 SENIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION

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

FOUNDATIONS EDUCATION

EDF 3122 LEARNING AND THE DEVELOPING CHILD
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
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.
EIV 4360 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION (4) PR: EIV 4360 or CR. Specializes in instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

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management of equipment, furniture, tools, and supplies as they relate to effective student learning.

**MAE 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.

**MAE 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 5369 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 5564 SCHOOL COMMUNITY DEVELOPMENT**
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**
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**
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**
PR: EDG 4620 or CR in EDG 4620 and admission to teacher education program in mathematics. Techniques and materials of instruction in mathematics.

**MAE 4551 READING THE LANGUAGE OF MATHEMATICS**
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**
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

**MAE 4909 DIRECTED STUDY: MATHEMATICS EDUCATION**
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

**MAE 4936 SENIOR SEMINAR IN MATHEMATICS EDUCATION**

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

**MEASUREMENT AND RESEARCH**

**EDF 4430 MEASUREMENT FOR TEACHERS**
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**
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.

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

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

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

**PELL 2122 GOLF II**
Continuation of PELL 1121. Emphasis on course play and refinement of strokes. (S/U only.)

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

**PELL 2342 TENNIS II**
Continuation of PELL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

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

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

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

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

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

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

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

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

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<tr>
<td>PET 3931</td>
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**HSC 2400**

Meet the American Red Cross certification requirements in standard and advanced first aid.

**PEP 4941**

Wellness Internship

- Requirements: 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

- Includes analysis of swimming skills, teaching methodology, conducting class activities, and organizing and conducting aquatic programs.

**PEQ 3170**

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

- 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

- Identification of personal and professional knowledge, skills, and attitudes necessary for successful professional practice of physical educators. Introduction to career opportunities and the historical, philosophical, and sociological foundations of the profession. Development of a personal-professional development plan. Field work required. Majors only.

**PET 3031**

Motor Development and Assessment

- 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 3030**

Survey of Wellness Program

- 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

- Study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psychomotor performance. Open to non-majors.

**PET 3351**

Exercise Physiology

- 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

- Development of knowledge and skills related to the instructional process of physical education. Preparation of materials and planning instruction.

**PET 3422**

Instructional Design and Content: Movement Experiences

- 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

- 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

- Study of characteristics, programming needs and teaching of physical education for handicapped students.

**PET 3790**

Career Decision-Making and Professional Ethics

- 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

- 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

- 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

- 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 concur-
rently 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 4333 EXERCISE PHYSIOLOGY II (3)  
PR: CC. & PET 3352. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes. Open to non-majors.

PET 4364 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, facilities, extra-curricular programs, and the selection and supervision of staff.

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

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

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

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

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

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

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

PET 4933 SENIOR SEMINAR IN SECONDARY PHYSICAL EDUCATION (3)  
PR: CC. Synthesis of teacher candidate’s courses in complete college program. Reflective evaluation of teaching experience. Required concurrently with Associate Teaching in Physical Education: Secondary. Physical Education Majors only.

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

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

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

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

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

PET 4947 ATHLETIC TRAINING PRACTICUM (2)  
PR: PET 4622. A ten-week training room practicum on skills in preventive stripping and review first aid and rehabilitation techniques, followed by a five-week practicum with local high schools or professional teams. Enrollment in these courses requires admission to the Physical Education program.

READING EDUCATION

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

RED 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.

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

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

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

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

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

LIS 5404 FOUNDATIONS OF LIBRARIANSHIP (3)  
Overview of the introduction to the study of library service; history; organization; specialized literature; outstanding leaders; current
SCIENCE EDUCATION

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

SCE 4320 TEACHING METHODS IN MIDDLE GRADE SCIENCE
PR: Completion of 25 semester hours of Science or CC. Survey techniques and materials unique to science, grades 5-8. Not designed for high school certification purposes. (3)

SCE 4330 TEACHING METHODS IN THE SECONDARY SCHOOL-SCIENCES
PR: Completion of 28 hours in approved science areas, EDG 4620 (or CR), and CC. Techniques and materials of instruction in secondary school sciences. (3)

SCE 4935 SENIOR SEMINAR IN SCIENCE EDUCATION
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship. (2)

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

May be repeated when topics are not duplicated. (1-4)

SOCIAL SCIENCE EDUCATION

SSE 4333 TEACHING MIDDLE AND SECONDARY GRADE SOCIAL SCIENCE
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. (3)

SSE 4334 SECONDARY SOCIAL SCIENCE EDUCATION TEACHING METHODS
PR: SSE 4333. This course is designed to identify and study selected techniques and strategies used in social science education instruction. Emphasis is placed upon the learner's ability to demonstrate skill in selecting methods, techniques, materials, and evaluative forms. Field work is a requirement. (3)

SSE 4640 COMMUNICATION SKILLS IN THE SOCIAL STUDIES
PR: CC. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.) (2)

SSE 4670 ECONOMICS USA: PRINCIPLES OF ECONOMICS FOR TEACHERS
A television course focusing on content and teaching methodology related to micro/macroeconomic principles. (S/U only.) (3)

SSE 4935 SENIOR SEMINAR IN SOCIAL SCIENCE EDUCATION
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship. (2)

SSE 4940 INTERNSHIP: SOCIAL SCIENCE EDUCATION
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the internship 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.) (1-12)

SPECIAL EDUCATION

EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS
PR: EEX 3010, or equivalent or Cl. 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. (3)

EED 4321 EDUCATIONAL PROCEDURES FOR STUDENTS WITH BEHAVIOR DISORDERS
PR: EEX 3010, EED 4011, or equivalent or Cl. Methods, materials and instructional techniques; development and implementation of individualized education programs; classroom organization and curriculum for students with behavior disorders. (3)

EED 4905 INDEPENDENT STUDY: BEHAVIOR DISORDERS
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.) (1-3)

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

EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS
PR: Cl. Field experience in classroom management, clinical teaching and assessment in behavior disorders. (S/U only.) Repeatable up to 6 credit hours. (1-6)

EEX 3010 INTRODUCTION TO SPECIAL EDUCATION
Characteristics and needs of Specific Learning Disabilities, Emotional Disturbance and Socially Maladjusted, Gifted, Hearing Impaired, Mentally Retarded, Physically Handicapped, Speech Impaired, and Visually Limited. (3)

EEX 4070 INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM
Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of "mainstreamed" exceptional students. Concurrent field experience projects are included. No credit for department majors. (2-3)

EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL STUDENTS
PR: EDF 3214, EEX 3010, and an Exceptional Child Education major. Introduction to and familiarization with formal and informal techniques used to measure and evaluate all exceptional students. The interpretation of information so derived for utilization in educational programming and individualization of instruction. (3)

EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT
PR: EEX 3010 or equivalent or Cl. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs, and community resources. (3)

EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL STUDENT EDUCATION
PR: Cl. Specialized independent study determined by the student's needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.) (1-3)

EEX 4909 DIRECTED STUDY: EXCEPTIONAL STUDENT EDUCATION
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class. Repeatable up to 3 credit hours. (1-3)

EEX 4935 SENIOR SEMINAR IN EXCEPTIONAL STUDENT EDUCATION
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship. (2)

EEX 4940 INTERNSHIP: EXCEPTIONAL STUDENT EDUCATION
One full semester of internship in an accredited public or private school. Intern takes Senior Seminar in Education concurrently. In special programs where the internship 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.) (1-10)
EMR 5722 WORKING WITH FAMILIES: A PLURALISTIC PERSPECTIVE
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 specific learning disabilities. Emphasis is on theories, issues, trends, and philosophy of problems for such children.

ELD 4110 EDUCATIONAL PROCEDURES FOR SPECIFIC LEARNING DISABILITIES (3)
PR: ELD 4011, EEX 4221, or CI. Curriculum organization, materials selection/design based on diagnostic findings for students with specific learning disabilities.

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

EPH 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.

EVI 5101 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

CHEMICAL ENGINEERING

CIVIL ENGINEERING AND MECHANICS

COMPUTER SCIENCE AND ENGINEERING

ELECTRICAL ENGINEERING

INDUSTRIAL AND MANAGEMENT SYSTEMS ENGINEERING
Chairperson: P.E. Givens; Professor Emeritus: P.M. Downey; Professors: J.L. Brown, L.A. Weaver; Associate Professors: S.K. Callahan, W.A. Miller; Visiting Faculty: L.C. Leung.

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. (SU only.)
EGN 1113 INTRODUCTION TO DESIGN GRAPHICS (3)
An introduction to the basic principles of engineering design. The course will include the graphic projection systems used in engineering drawing and design. Methods of graphic communication and graphic analysis of engineering design problems will be investigated.
EGN 2200 ENGINEERING WITH COMPUTERS (2)
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: EIGN 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 3311. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.

EGN 3331 MECHANICS OF MATERIALS (3)
PR: EGN 3311. Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.

EGN 3341 MECHANICS OF MATERIALS LABORATORY (3)

EGN 3343 THERMODYNAMICS I (3)

EGN 3353C BASIC FLUID MECHANICS (3)

EGN 3365L MATERIALS ENGINEERING I (3)
PR: CHM 2046, EGN 3311. Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.

EGN 3373 INTRODUCTION TO ELECTRICAL SYSTEMS I (3)

EGN 3374 INTRODUCTION TO ELECTRICAL SYSTEMS II (3)
PR: EGN 3373. Continuation of EGN 3373.

EGN 3375 INTRODUCTION TO ELECTRICAL SYSTEMS III (3)
PR: EGN 3373. Continuation of EGN 3373 or EGN 3374.

EGN 3433 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 3613C 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 4366L MATERIALS ENGINEERING II (3)
PR: 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 (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: EMC 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 CR. Engineering laboratory experiments in reacting systems. Formal oral and written presentations.

ECH 4650C PROCESS ECONOMICS AND OPTIMIZATION (3)
Methods of economic analysis to determine profitability of process investments; replacement and alternative analysis. Single and multivariable optimization using analytical and numerical methods. Process and equipment design under risk and uncertainty.

ECH 4615 PLANT DESIGN AND ECONOMICS (3)

ECH 4711 ENVIRONMENTAL & REGULATORY ASPECTS OF BIOTECHNOLOGY (1)
PR: Senior standing in engineering or biology or CR. Consideration of environmental aspects of the biotechnology workplace such as worker health & safety and sanitation & sterilization practices. Also will discuss legal and regulatory aspects, quality control, and product testing and certification.

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

ECH 4905 INDEPENDENT STUDY (1-4)
PR: CR. 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: CC. May be repeated up to 9 credit hours.

ECH 5196C SEMINAR IN THE PHILOSOPHY OF THERMODYNAMICS (2)
PR: CI. Philosophical and technical aspects of contemporary thermodynamics, including entropy, time, irreversible processes, complex structures, and analysis of biological systems. Includes topics in philosophy of science. Open to majors and non-majors.

ECH 5314 AUTOMATIC PROCESS CONTROL II (3)
PR: EMC 4314, or CI. This course covers the root locus and frequency response methods. The techniques of ration, cascade feedback, 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 in cluding PID, Dahlin, and deadtime compensations.

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

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

ECH 5748 SELECTED TOPICS IN BIOMEDICAL ENGINEERING (1-3)
PR: CI. Selected topics in biomedical engineering, including bi-
CIVIL ENGINEERING AND MECHANICS

CEG 4011 SOIL MECHANICS I
PR: EGN 3354C. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength. (3)

CEG 4012 SOIL MECHANICS II
PR: CEG 4011. Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered. (3)

CEG 4211 GEOTECHNICAL DESIGN
PR: CEG 4011. Design of geotechnical systems including bases, foundations, embankments, and dams. (2)

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

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

CES 3102 STRUCTURES I
PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Introduction to the use of energy methods in indeterminate structures. (3)

CES 4104 ADVANCED MECHANICS OF MATERIALS
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. (3)

CES 4141 MATRIX STRUCTURAL ANALYSIS
PR: CES 3102, EGN 4450. Analysis of structures by use of matrix techniques and the digital computer. An introduction to finite analysis techniques. (3)

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

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

CES 4618 STRUCTURAL DESIGN STEEL
PR: CES 4605. Design of structures made of steel. (2)

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

CES 4704 STRUCTURAL DESIGN-CONCRETE
PR: CES 4702. Design of concrete structures. (2)

CES 4820 TIMBER AND MASONRY DESIGN
PR: EGN 3331, CES 3102, CES 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters. (3)

CES 5104 ADVANCED MECHANICS OF MATERIALS I
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. (3)

CES 5209C STRUCTURAL DYNAMICS
PR: CES 3102. Behavior of structural components and systems when subjected to periodic dynamic loads. (3)

CES 5715 PRESTRESSED CONCRETE
PR: CI. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of prestress applications. (3)

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

CGN 3801 DESIGN AND PRACTICES
PR: EGN 3354C, EGN 3365L, EGN 3331 Methodology of the design process in civil engineering. Includes problem definition, criteria, data collection and analysis, information sources, planning, specifications, and presentation of technical information. (2)

CGN 4122 ENGINEERING CONTRACTS, SPECIFICATIONS AND ETHICS
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. (3)

CGN 4851 CEMENT AND CONCRETE DESIGN
PR: EGN 3354C, EGN 3365L. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties. (2)

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

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

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

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

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

CWR 4103 WATER RESOURCES ENGINEERING
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. (3)

CWR 4202 HYDRAULICS
PR: EGN 3354C. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems. (3)

CWR 4810 HYDRAULIC DESIGN
PR: EGM 4818, ENV 4622. Design of hydraulic systems, including drainage, water supply, and flood control. (2)

EES 5203 WATER QUALITY FOR ENGINEERS
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. (3)

EMA 4324 CORROSION OF ENGINEERING MATERIALS
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. (3)
### COLLEGE OF ENGINEERING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EMA 4325</td>
<td>CORROSION CONTROL SYSTEM DESIGN (2)</td>
</tr>
<tr>
<td>PR: EMA 4324</td>
<td>Design of corrosion prevention systems and prediction of the behavior of materials in various corrosive environments.</td>
</tr>
<tr>
<td>EMA 4604</td>
<td>PROCESSES IN MATERIALS ENGINEERING (3)</td>
</tr>
<tr>
<td>PR: EGN 3365L</td>
<td>Introduction to the basic theories of solidification and ultrapurification of materials, and discussion of the primary methods of shaping and forming materials.</td>
</tr>
<tr>
<td>EMA 4703</td>
<td>FAILURE ANALYSIS AND PREVENTION (3)</td>
</tr>
<tr>
<td>EMA 4704</td>
<td>SELECTION AND APPLICATION OF ENGINEERING MATERIALS (2)</td>
</tr>
<tr>
<td>PR: EGN 3365L</td>
<td>Determination of the property requirements for the utilization of materials in specific applications, comparison of properties of metals, plastics, and ceramics, the effect of heat treatment, etc., on materials, property limitations.</td>
</tr>
<tr>
<td>ENV 4001</td>
<td>ENVIRONMENTAL ENGINEERING (3)</td>
</tr>
<tr>
<td>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.</td>
<td></td>
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<tr>
<td>ENV 4101</td>
<td>AIR POLLUTION CONTROL (3)</td>
</tr>
<tr>
<td>PR: EGN 3354C</td>
<td>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.</td>
</tr>
<tr>
<td>ENV 4402</td>
<td>ENVIRONMENTAL ENGINEERING LABORATORY (1)</td>
</tr>
<tr>
<td>PR: CHM 3200</td>
<td>Laboratory experience in the measuring of environmental parameters.</td>
</tr>
<tr>
<td>ENV 4417</td>
<td>WATER QUALITY AND TREATMENT (3)</td>
</tr>
<tr>
<td>PR: CWR 4202</td>
<td>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.</td>
</tr>
<tr>
<td>ENV 4432</td>
<td>WATER SYSTEMS DESIGN (2)</td>
</tr>
<tr>
<td>PR: EGN 3354C</td>
<td>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.</td>
</tr>
<tr>
<td>ENV 4502</td>
<td>ENVIRONMENTAL UNIT OPERATIONS (3)</td>
</tr>
<tr>
<td>PR: EGN 3343, EGN 3354C</td>
<td>CR: The theory and the design of unit operations normally used in the practice of environmental engineering, such as agitation and mixing of liquids, filtration, leaching, gas absorption, sedimentation and clarification, drying, and evaporation.</td>
</tr>
<tr>
<td>ENV 4503</td>
<td>ENVIRONMENTAL UNIT PROCESSES (3)</td>
</tr>
<tr>
<td>PR: EMC 3001, ENV 4502</td>
<td>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.</td>
</tr>
<tr>
<td>ENV 4531</td>
<td>WASTEWATER SYSTEMS DESIGN (2)</td>
</tr>
<tr>
<td>PR: ENV 4503</td>
<td>Emphasis is placed upon design practice and economics for a comprehensive design of a wastewater system and a collection system.</td>
</tr>
<tr>
<td>ENV 4552</td>
<td>ENVIRONMENTAL UNIT OPERATIONS AND PROCESSES LABORATORY (1)</td>
</tr>
<tr>
<td>PR: EGN 3354C</td>
<td>CR: ENV 4012</td>
</tr>
<tr>
<td>ENV 6105</td>
<td>AIR RESOURCE MANAGEMENT (3)</td>
</tr>
<tr>
<td>PR: CI</td>
<td>Air pollution source impacts on ambient air quality, modeling, regulatory approaches, source strategic controls and surveillance.</td>
</tr>
<tr>
<td>ENV 5345</td>
<td>SOLID AND HAZARDOUS WASTE CONTROL (3)</td>
</tr>
<tr>
<td>PR: CI</td>
<td>Treatment practices and design of waste handling systems to include: land treatment, pre-treatment, incineration, resource recovery, recycle, waste elimination.</td>
</tr>
<tr>
<td>ENV 5438</td>
<td>URBAN WATER TREATMENT THEORY AND DESIGN (3)</td>
</tr>
<tr>
<td>PR: ENV 4417 and CI</td>
<td>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.</td>
</tr>
<tr>
<td>ENV 5690</td>
<td>URBAN WASTEWATER TREATMENT THEORY AND DESIGN (3)</td>
</tr>
<tr>
<td>PR: ENV 4417, CI</td>
<td>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.</td>
</tr>
<tr>
<td>ENV 5691</td>
<td>ENVIRONMENTAL RISK ANALYSIS (3)</td>
</tr>
<tr>
<td>PR: CI</td>
<td>Study of comprehensive application of risk analysis techniques for environmental control and protection purposes.</td>
</tr>
<tr>
<td>SUR 5140C</td>
<td>ENGINEERING LAND SURVEYING (3)</td>
</tr>
<tr>
<td>Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.</td>
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<tr>
<td>TTE 4004</td>
<td>TRANSPORTATION ENGINEERING I (3)</td>
</tr>
<tr>
<td>PR: EGN 3331</td>
<td>Principles of surface transportation system development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.</td>
</tr>
<tr>
<td>TTE 4005</td>
<td>TRANSPORTATION ENGINEERING II (3)</td>
</tr>
<tr>
<td>PR: TTE 4004, SUR 3140</td>
<td>Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, superelevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental Impacts; site layout &amp; design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.</td>
</tr>
<tr>
<td>TTE 4521</td>
<td>TRANSPORTATION SYSTEMS DESIGN (2)</td>
</tr>
<tr>
<td>PR: TTE 4005</td>
<td>Comprehensive surface transportation design laboratory experience involving function design, traffic and facility sizing, complete alignments, site surveying &amp; layout plan and quantity preparation with computerized designed applications.</td>
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### COMPUTER SCIENCE AND ENGINEERING

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<th>Course Code</th>
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<tbody>
<tr>
<td>CAP 5400</td>
<td>DIGITAL IMAGE PROCESSING (3)</td>
</tr>
<tr>
<td>PR: EEL 4851 Data Structures, or Graduate Standing</td>
<td>Image formation, sources of image degradation, image enhancement techniques, edge detection operators, and threshold selection, low-level processing algorithms for vision, image data compression.</td>
</tr>
<tr>
<td>CAP 5600</td>
<td>INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3)</td>
</tr>
<tr>
<td>PR: EEL 4851C</td>
<td>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.</td>
</tr>
<tr>
<td>CAP 5662</td>
<td>EXPERT AND INTELLIGENT SYSTEMS (3)</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CAP 5690</td>
<td>FUNCTIONAL PROGRAMMING LANGUAGES (3)</td>
</tr>
<tr>
<td>PR: COP 4020</td>
<td>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.</td>
</tr>
<tr>
<td>CDA 4100</td>
<td>COMPUTER ORGANIZATION AND ARCHITECTURE (3)</td>
</tr>
</tbody>
</table>
| PR: EEL 4705, or CC. CR; CDA 4103 | Elements of computer sys-
tems; processors, memories and switches. Register transfer presentation of a computer. ALUs and their implementation. The control unit. Memory and I/O. Hardware support of operation system functions.

CDA 4103 MINICOMPUTER LABORATORY (1) CR: CDA 4100. Minicomputer organization and programming.

CDA 4203 COMPUTER SYSTEM DESIGN (3) PR: EEL 4705, EEL 4705L. Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.

CDA 5405 MODELING COMPUTER SYSTEM PERFORMANCE (3) PR: Knowledge of basic calculus and probability theory. Ability to program computers in a higher level language. Development of models based on queueing theory for evaluation of computer system performance. Analysis of open and closed network of queues. Operatioanal analysis. Asymptotic bounds analysis.


CIS 4610 SOFTWARE ENGINEERING (3) PR: COP 4400. The principles of information engineering using current and emerging computer systems technologies and information theory will be presented and applied. This would include domain frame links, local-area/wide-area networks, advanced generation integrated software facilities and artificial intelligence/knowledge based systems.

CIS 4900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5) PR: CI. Specialized independent study determined by the needs and interests of the student. May be repeated up to 10 credit hours. (S/ U only.)

CIS 4910 COMPUTER SCIENCE PROJECT (2) Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.

CIS 4930 SPECIAL TOPICS IN COMPUTER SCIENCE I (1-4) PR: CC.

CIS 4935 COMPUTER SCIENCE AND ENGINEERING SEMINAR (2) PR: CC. This is a seminar course for majors in Computer Science and Engineering. May be repeated up to 4 credit hours.

COP 3000L COMPUTER SCIENCE LABORATORY (1) CR: COP 3002. Laboratory for implementation of algorithms in a general purpose computer language.

COP 3002 INTRODUCTION TO COMPUTER SCIENCE (3) PR: EGN 2210. CR: COP 3000L. Introduction to the concepts of algorithmic formulation of problems for computer solution and the general abstract operations used in these formulations.

COP 4020 PROGRAMMING LANGUAGES (3) PR: EEL 4851C and COP 4400. An introduction to programming languages, survey of language types and design of translators and interpreters.

COP 4025 COMPARISON OF PROGRAMMING LANGUAGES (3) PR: EEL 4851C. A comparative study of procedural and nonprocedural computer languages, emphasizing the fundamental differences in information binding, string and data structures manipulation, control and I/O structures in different languages.

COP 4400 COMPUTER SYSTEMS (3) PR: COP 3002, COP 3000L and MAC 3283 or CC. Principles of computer organization, machine and assembly language programming.

COP 4600 INTRODUCTION TO SYSTEMS PROGRAMMING (3) PR: EEL 4851C, COP 4400. Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

COT 3100 INTRODUCTION TO DISCRETE STRUCTURES (3) PR: MAC 3281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

COT 4210 INTRODUCTION TO AUTOMATA THEORY AND FORMAL LANGUAGES (3) PR: EEL 4851C, COT 3100, or CC. Introduction to the theory and application of various types of computing devices and the languages they recognize.

COT 4400 ANALYSIS OF ALGORITHMS (3) PR: EEL 4851C and COT 3100. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

EEL 4705 LOGIC DESIGN I (3) PR: EGN 3373, CR: EEL 4705L or CC; for CS & 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.

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

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


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

EEL 4860C SOFTWARE ENGINEERING (3) PR: Senior standing in Computer Science or CC: COP 3002, EEL 4851. Methods of designing and developing effective and efficient computer programs. Top-down design, structured programming, debugging and program analysis are addressed.

EEL 4851C DATA STRUCTURES (3) PR: COP 3002, COP 3000L. Fundamentals of data organization for purposes of program efficiency, clarity and simplicity will be addressed.

EEL 4880C DATA BASE SYSTEMS (3) 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.

EEL 4781C DISTRIBUTED PROCESSING AND COMPUTER NETWORKS (3) PR: COP 4600, CDA 4100. Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.

EEL 5706 TESTING AND FAULT TOLERANCE (3) 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.

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

ELECTRICAL ENGINEERING

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

EEL 3302 ELECTRONICS I (3) PR: EGN 3373. A course in the physical principles of electronic
EEL 3410, 4411 FIELDS AND WAVES I, II (3,3)
PR: MAP 4302, PHY 3049, PHY 3049L. A basic introduction to electromagnetic field theory, including static and dynamic electromagnetic fields.

EEL 4102 LINEAR SYSTEMS ANALYSIS (3)
PR: EEL 3100. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain methods, and LAPlace, FOURier, and superposition integrals.

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

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

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 4567 ELECTRO-OPTICS (3)
PR: EEL 3301L, EEL 3302L, EEL 3410. An introduction to the field of electro-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.

EEL 4572 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 4575 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: Cl. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U only.)

EEL 4906 DESIGN PROJECT (2)
PR: Senior standing. An individual or team project involving the design of an electrical component system. Required of all electrical seniors.

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

EEL 5250 POWER SYSTEM ANALYSIS (3)
Analysis technique for AC power systems.

EEL 5344 DIGITAL CMOS/VLSI DESIGN (3)
PR: EEL 4705 or CC. Design, layout, simulation, and test of custom digital CMOS/VLSI chips, a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops CMOS array structures commonly used in digital systems. Top down design example of a small 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 Cl. Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.

EEL 5357 ANALOG CMOS/VLSI DESIGN (3)

EEL 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. Intro 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 5520 NONLINEAR CONTROL SYSTEMS (3)

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

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

EEL 5706 TESTING & FAULT TOLERANCE IN DIGITAL SYSTEMS (3)
PR: CDA 4101, COT 4130, or graduate standing. Reliability concepts, fault analysis and diagnosis in digital circuits, fault modeling, fault tolerant design, CMOS testability, self-checking circuits, design for testability, fault masking techniques, and fault simulation.

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

EEL 5755 DIGITAL SIGNAL PROCESSING I (3)

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.

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

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

ETI 4614 PRINCIPLES OF INDUSTRIAL OPERATIONS I (3)
PR: ETK 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 (3)
History of industrial engineering. Introduction to basic industrial processes and controls. Students research specific industries and visit local industrial plants.

EIN 4312L WORK ANALYSIS (3)
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 (3)
Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 43343 PRODUCTION CONTROL (3)
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 4364L PLANT FACILITIES DESIGN I (3)
PR: EIN 4312L EIN 441. Design and modification of industrial production and material handling facilities. Basic analysis techniques, use of computer programs, automated warehousing.

EIN 4365 FACILITIES DESIGN II (3)
PR: EIN 4364. CAD/CIM, complete design of a plant facility. Course to use computers and software geared toward plant design and operation. A team of students is to be responsible for the complete project.

EIN 4411L MANUFACTURING PROCESSES (3)
PR: EGN 3365. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4601 AUTOMATION AND ROBOTICS (3)
PR: EIN 4395L. 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 (1-5)
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

EIN 5218 HAZARDS CONTROL ENGINEERING (3)
PR: Senior or graduate status. Open to non-majors. Nature of industrial accidents. Practices, standards, OSHA, and other governmental requirements for reducing accident frequency and severity in the industrial environment. Design measures for the prevention of health impairment due to non-accidental causes.

EIN 5245 WORK PHYSIOLOGY AND BIOMECHANICS (3)
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 (3)
The study of analysis of combined human operations, automated processes, and robotics in industrial environments.

EIN 5301C INDUSTRIAL ENGINEERING CONCEPTS (3)
Survey of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

EIN 5322 PRINCIPLES OF ENGINEERING MANAGEMENT (3)
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 (3)
Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

EIN 5381C LOGISTICS ENGINEERING (3)
PR: EGN 3443 or equivalent. Principles and practices of Logistics Engineering are covered. System requirements, logistics support analysis, test and evaluation are considered.

EIN 5388 TECHNOLOGY FORECASTING (3)
Introduction to forecasting techniques used to plan and schedule production and inventory control functions. Smoothing and decomposition, time-series methods, regression methods, and autoregressive/moving average methods are presented. Integrating forecasting and planning into the engineering organization is discussed.

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

ESI 4161 COMPUTERS IN INDUSTRIAL ENGINEERING (3)

ESI 4221 INDUSTRIAL STATISTICS AND QUALITY CONTROL (3)
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 4244 DESIGN OF EXPERIMENTS (3)
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. (3)
PR: EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

ESI 4313 PROBABILISTIC O. R. (3)
PR: EGN 3443. A continuation of ESI 4314 with emphasis given to probabilistic models in Operations Research. Discrete and continuous time processes, queueing models, inventory models, simulation models, Markovian decision process and decision analysis.

ESI 4523 INDUSTRIAL SYSTEMS SIMULATION (3)
PR: ESI 4315. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

ESI 4573 NUMERICAL METHODS (3)
PR: EGN 2210, one calculus course or Cl. Numerical algorithms and methods for applications to engineering problems. Applications using FORTRAN language.
COLLEGE OF ENGINEERING

CGS 4260 SC MINI-COMPUTER APPLICATIONS
PR: CGS 4485. Study of mini-computer system components, I-O devices, theory of computer operation.

CGS 4485 SC DATA REPRESENTATION AND MANIPULATION
PR: CDA 3100. Study of the internal representations of data, data storage and retrieval, and data manipulations.

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

COP 3200 SC FORTRAN PROGRAMMING
PR: CGS 3060. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.

COP 3120 SC COBOL PROGRAMMING I

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

COP 3130 SC PL/I PROGRAMMING

MECHANICAL ENGINEERING

EAS 4121 HYDRO AND AERODYNAMICS
PR: EGN 3554, MAP 4302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

EAS 5100 AERODYNAMICS
PR: EGN 4355, and C1. Fundamentals of aerodynamic flow and flight including potential theory, circulatory theory, viscosity considerations, wing theory and design.

ECH 3702 INSTRUMENT SYSTEMS

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

EML 4033 MECHANICAL ENGINEERING LAB I

EML 3254 KINEMATICS AND DYNAMICS OF MACHINERY
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.

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

EML 3701C FLUID SYSTEMS
PR: EGN 3343; Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

EML 4041 COMPUTER SIMULATION I
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 4106C</td>
<td>THERMAL SYSTEMS AND ECONOMICS</td>
<td>PR: EGN 3343</td>
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<tr>
<td>EML 4142</td>
<td>HEAT TRANSFER I</td>
<td>PR: EML 3701</td>
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<td>EML 4222</td>
<td>VIBRATIONS</td>
<td>PR: EML 3433</td>
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<tr>
<td>EML 4312C</td>
<td>MECHANICAL CONTROLS</td>
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<td>EML 4419</td>
<td>PROPULSION I</td>
<td>PR: EML 3701</td>
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<td>MACHINE ANALYSIS AND DESIGN II</td>
<td>PR: EML 3500</td>
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<tr>
<td>EML 4551C</td>
<td>PROJECT DESIGN I</td>
<td>PR: Senior standing in mechanical engineering or CC</td>
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<td>EML 4552C</td>
<td>PROJECT DESIGN II</td>
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<td>EML 4601</td>
<td>REFRIGERATION AND AIR CONDITIONING</td>
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<tr>
<td>EML 4905</td>
<td>INDEPENDENT STUDY</td>
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<td>EML 4930</td>
<td>SPECIAL TOPICS IN MECHANICAL ENGR. I</td>
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<td>EML 4931</td>
<td>SPECIAL TOPICS IN MECHANICAL ENGR. II</td>
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<td>EML 5225</td>
<td>ACOUSTICS AND NOISE CONTROL</td>
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<td>EML 5241</td>
<td>LUBRICATION</td>
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<td>EML 5304</td>
<td>MECHANICAL DESIGN OF PROCESS EQUIPMENT</td>
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<tr>
<td>EML 5315</td>
<td>MACHINE CONTROL SYSTEMS</td>
<td>PR: EMC 4312</td>
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<tr>
<td>EML 5325</td>
<td>MECHANICAL MANUFACTURING PROCESSES</td>
<td>PR: CI</td>
<td>3</td>
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</tbody>
</table>

Note: PR stands for Prerequisite.
**COLLEGE OF FINE ARTS**

### ART

**Acting Chairperson:** B. Marsh; **Distinguished Professor - Dean Emeritus:** D. J. Saff; **Dean Emeritus - Professor Emeritus:** H. W. Covington; **Professors:** E. L. Cox, A. B. Eaker, C. J. Fager, R. W. Gelinas, J. M. Kronoble, M. R. Larsen, C. P. Lyman, B. L. Marsh, M. A. Miller, G. Pappas; **Associate Professors:** T. E. McLaughlin, B. J. Nickels, D. R. E. Wright, T. F. Wujick; **Assistant Professors:** S. Davis, V. Hirt, L. Marcus, H. Szape, J. Wein; **Lecturer:** D. H. Elmeer; **Other Faculty:** D. L. Rosenzweig, D. Warnock.

### DANCE

**Acting Chairperson:** D. McWaters; **Professors:** L. D. Berger, W. G. Hug; G. W. Warren **Associate Professors:** S. W. Robinson, L. Wimmer; **Assistant Professors:** M. W. Katz, J. E. Parks; **Adjuncts:** C. Griffith, G. Lund, K. McBee, K. Silver, N. Specter.

### 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

**Chairperson:** J. R. Hancock; **Professors:** D. M. Calandra, N. B. Cole, W. A. Lorenzen, P. Massie, P. B. O'Sullivan; **Associate Professors:** J. W. Belt, P. M. Finelli, B. W. Lee, A. G. Lillithun, C. Steele, D. K. Williams; **Lecturer:** M. A. Bentley, G. B. Stephens.

### ART

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>ARH 4100 PREHISTORIC AND ANCIENT ART</td>
<td>A comprehensive study of Paleolithic, Neolithic, Egyptian, Assyrian and Mesopotamian painting, sculpture and architecture.</td>
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<tr>
<td>ARH 4170 GREEK AND ROMAN ART</td>
<td>A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.</td>
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<tr>
<td>ARH 4200 MEDIEVAL ART</td>
<td>A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, and manuscript illumination.</td>
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<tr>
<td>ARH 4301 RENAISSANCE ART</td>
<td>A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.</td>
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<tr>
<td>ARH 4330 BAROQUE AND ROCOCO ART</td>
<td>A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.</td>
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<tr>
<td>ARH 4430 NINETEENTH CENTURY ART</td>
<td>A comprehensive study of nineteenth century painting, sculpture and architecture in France and England.</td>
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<tr>
<td>ARH 4450 TWENTIETH CENTURY ART</td>
<td>A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.</td>
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<tr>
<td>ARH 4530 ORIENTAL ART</td>
<td>An introduction to concepts of the arts of China, Japan and other Far Eastern countries.</td>
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<tr>
<td>ARH 4790 SELECTED TOPICS IN THE HISTORY OF FILM</td>
<td>In-depth investigation of a selected period, development, or school in the history of film as art. May be repeated.</td>
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<tr>
<td>ARH 4796 CRITICAL STUDIES IN ART HISTORY - 6A</td>
<td>PR: Cl. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.</td>
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<tr>
<td>ARH 4937 SEMINAR IN THE HISTORY OF ART HISTORY</td>
<td>PR: Four courses in Art History at the 4000 level, Cl. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.</td>
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<tr>
<td>ARH 5333 CULTURAL AND INTELLECTUAL HISTORY OF RENAISSANCE AND BAROQUE ART</td>
<td>A course in which Renaissance and Baroque theories of art are treated as part of general cultural and intellectual history.</td>
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<tr>
<td>ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART</td>
<td>A course in which theories of modern artists, and of critics and historians of Modernism are treated as part of general Culture and Intellectual History.</td>
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<tr>
<td>ARH 5795 METHODS OF ART HISTORY</td>
<td>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.)</td>
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<tr>
<td>ART 2202C VISUAL CONCEPTS I</td>
<td>Studio problems supplemented by reading and discussion. Consideration of spatial organization of the two-dimensional surface.</td>
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<tr>
<td>ART 2203C VISUAL CONCEPTS II</td>
<td>Studio problems supplemented by reading and discussion. Consideration of the three-dimensional organization of space and mass.</td>
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<tr>
<td>ART 3001 INTRODUCTION TO ART - 6A</td>
<td>An expanded introductory treatment of basic concepts. For art majors and non-art majors.</td>
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<tr>
<td>ART 3225 INTRODUCTION TO COMPUTER IMAGES</td>
<td>PR: ART 2202 and ARH 3001. An introduction to the micro-computer 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.</td>
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<tr>
<td>ART 3301C DRAWING I</td>
<td>PR: Visual Concepts I and Introduction to Art. Drawing as a means of formal organization. Introduction to intermediate drawing methods and media.</td>
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<tr>
<td>ART 3420 LITHOGRAPHY I</td>
<td>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.</td>
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<tr>
<td>ART 3468 MULTI-MEDIA PRINTMAKING</td>
<td>PR: ART 2202C, ART 3001, ART 3301C. Investigation of Printmaking Media including: monoprinting, collograph, relief printing and the dimensional print with emphasis on the development of individual concepts.</td>
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<tr>
<td>ART 3469 PHOTO-PRINTMAKING</td>
<td>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.</td>
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<tr>
<td>ART 3470 INTAGLIO I</td>
<td>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.</td>
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</tr>
</tbody>
</table>
ART 3510C PAINTING I (4)

ART 3701C SCULPTURE I (4)
PR: Visual Concepts II and Introduction to Art. Intermediate problems in sculpture with emphasis on the exploration of materials and media and the development of individual concepts.

ART 3935 STUDIO TECHNIQUES: SELECTED PROJECTS (2)
PR: Visual Concepts I, II and Introduction to Art. 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 4225 ADVANCED COMPUTER IMAGES (4)
PR: ARH 3000, ART 2202, and ART 3225. A continuing study of the microcomputer as a tool for the visual arts. A course in 2-D image creation and manipulation. Available to majors and non-majors.

ART 4226 COMPUTER ANIMATION (4)
PR: ARH 3000, ART 2202, ART 2203, and ART 3225. 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 3420. Continued problems in lithography. May be repeated.

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

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

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

ART 4900 DIRECTED READING (1-4)
PR: CI and CC. A course of reading and study in an area of special concern governed by student demand, instructor interest and/or departmental requirements. Registration by contract only. May be repeated for credit for different study areas only.

ART 4905 DIRECTED STUDY (1-4)
PR: CC. Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. May be repeated.

ART 4935 ART SENIOR SEMINAR (2)
PR: Senior Status. To aid majors to understand, appraise, and perfect their own art and technique through critical and aesthetic judgments of their colleagues. Discussion and critical evaluation.

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

ART 5125C CERAMICS (4)
PR: ART 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 photocengraving 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 5879 GALLERY AND MUSEUM INTERNSHIP (2-6)
By working in Bay area museums or galleries students will become familiar with various museological operations. Internships vary owing to the work at hand in particular museums, but possible areas of work include registration, installation, conservation, writing of grants or museum education. (Students are eligible after completing one semester in the program.) May be repeated up to 8 credit hours. (S/U only.)

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

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

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

PGY 3410C PHOTOGRAPHY I (4)
PR: Visual Concepts I and Introduction to Art. Intermediate problems in photography with emphasis on the exploration of materials and media and the development of individual concepts.

PGY 3510C CINEMATOGRAPHY I (4)
PR: Visual Concepts I and Introduction to Art. Intermediate problems in cinematography with emphasis on the exploration of materials and media and the development of individual concepts.

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

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

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

PGY 5425C PHOTOGRAPHY (4)
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.

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

DANCE

DAA 2000 THEATRE DANCE STYLES (2)
PR: DAA 2100 or DAA 2200 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 (2)
To acquaint beginning modern students with fundamentals of dance vocabulary, movement, rhythm and alignment. May be repeated.

DAA 2104 MODERN DANCE II (3)
PR: Admission by audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

DAA 2200 FUNDAMENTALS OF BALLET I (2)
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 2500 FUNDAMENTALS OF JAZZ DANCE
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmical movement patterns. May be repeated up to 4 credit hours.

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

DAA 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 be 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
PR: DAA 2100 or DAA 2200 or CI. Analysis of scientific basis of movement for the dancer through the study of body alignment and movement theories related to 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. Leo-lab, reading. Rehearsal hours to be arranged. May be repeated.

DAA 4707 CHOREOGRAPHY IV
PR: DAA 4702. The student will prepare studies based on free form, minimal art, and chance methods. Leo-lab., reading. May be repeated.

DAA 4790 SENIOR PROJECT
PR: senior Major, 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.

DAA 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 and production crew. Dance majors must have at least 2 credits for graduation accumulated in two different semesters. 40 hour lab required.

DAN 4111 SURVEY HISTORY OF DANCE -6A
Survey history of dance. Study of development of dance from its inception through 18th Century. Social and theatrical dance forms, Ethnic Dance included.

DAN 4112 19TH AND 20TH CENTURY DANCE
Survey history of dance. Study of development of dance from 19th Century through 20th Century. Theatrical and other expressive forms included. Reading, lecture and visual aids.

DAN 4170 DANCE SENIOR SEMINAR
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
PR: CI and CC. Readings in topics 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
PR: CI. CC. Independent studies in the various areas of Dance. Course of study may be used to fulfill Junior Project. Must receive
MUC 2221 COMPOSITION
PR: MUT 1112 and CI. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 2301 INTRODUCTION TO ELECTRONIC MUSIC
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
PR: Necessary competency at MUC 2201 level determined by faculty jury. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 3401, 3402 ELECTRONIC MUSIC-ANALOG SYNTHESIS (3,3)
PR; MUC 2301 and CI. 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 CI. 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
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
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 (formerly MUC 4405, 4406) ELECTRONIC MUSIC-REAL-TIME PERFORMANCE (3,3)
PR: MUC 3402 and MUC 3442 or equivalent. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 451I 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
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
PR: MUG 3101 or its equivalent and CI. Practical application of conducting techniques to choral works, score study, performance practices, and rehearsal techniques. Class serves as performing group.

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

MUH 3016 SURVEY OF JAZZ
An in-depth study of the historical study of jazz, including the representative music, literature, and sociological implications.

PGY 5425C PHOTOGRAPHY
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.

MUH 3019 HISTORY OF POPULAR MUSIC
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.

MUH 4801 HISTORY OF JAZZ
PR: MUT 1112 or CI. An in-depth study of the historical development of Jazz, Including the representative musical literature and sociological implications.

MUH 3300 MUSIC HISTORY / MEDIEVAL AND RENAISSANCE
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.

MUH 3301 MUSIC HISTORY / BAROQUE AND CLASSIC
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.

MUH 3302 MUSIC HISTORY / ROMANTIC AND 20TH CENTURY
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.

MUL 2111 INTRODUCTION TO MUSIC LITERATURE -6A
PR: MUT 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
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 WUS/TFTV Channel 16 by the O. U. Program. (S/J only.)

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

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

MUN 3143 WIND ENSEMBLE
MUN 3213 UNIVERSITY ORCHESTRA
MUN 3313 UNIVERSITY SINGERS
MUN 3383 UNIVERSITY-COMMUNITY CHORUS
MUN 3453 (formerly MUN 3451) PIANO ENSEMBLE
MUN 3713 JAZZ ENSEMBLE
MUN 3801 OPERA WORKSHOP

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

MUN 3343 CHAMBER SINGERS
MUN 3411 STRING QUARTET
MUN 3420 SAXOPHONE ENSEMBLE
MUN 3421 FLUTE CHOR
MUN 3424 WOODWIND QUINTET
MUN 3433 BRASS CHOIR
MUN 3432 HORN QUARTET
MUN 3431 (formerly MUN 3436) BRASS QUINTET
MUN 3443 PERCUSSION ENSEMBLE
MUN 3444 MARIMBA ENSEMBLE
MUN 3473 COLLEGIUM MUSICUM
MUN 3711 JAZZ CHAMBER ENSEMBLE
MUN 3483 CLASSICAL GUITAR ENSEMBLE
MUN 3901 RECITAL ATTENDANCE
### COLLEGE OF FINE ARTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 4900 DIRECTED READING</td>
<td>1-3</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4905 DIRECTED STUDY</td>
<td>1-4</td>
<td></td>
<td>PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.</td>
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<tr>
<td>MUS 3490 NEW MUSIC ENSEMBLE</td>
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<tr>
<td>MUS 4930 SELECTED TOPICS IN MUSIC</td>
<td>1-4</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4931 SELECTED STUDIO TOPICS IN MUSIC</td>
<td>1-4</td>
<td></td>
<td>PR: CI. The content of the study will be governed by individual student demand and instructor interest with an emphasis on individual instruction.</td>
</tr>
<tr>
<td>MUS 4935 MUSIC SENIOR SEMINAR</td>
<td>1</td>
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<td>PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (S/U only.)</td>
</tr>
<tr>
<td>MUT 5905 DIRECTED STUDY</td>
<td>1-4</td>
<td></td>
<td>PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.</td>
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<tr>
<td>MUSIC WORKSHOP COURSES (below)</td>
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<td>PR: CI. Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students.</td>
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<tr>
<td>MUS 5927 ORCHESTRA WORKSHOP</td>
<td>1-2</td>
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<tr>
<td>MUS 5929 STRING WORKSHOP</td>
<td>1-2</td>
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<tr>
<td>MUS 1001 RUDIMENTS OF MUSIC</td>
<td></td>
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<td>Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.</td>
</tr>
<tr>
<td>MUS 1111, 1112 MUSIC THEORY</td>
<td>3,3</td>
<td></td>
<td>PR: CI. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.</td>
</tr>
<tr>
<td>MUS 1241, 1242 AURAL THEORY</td>
<td>1,1</td>
<td></td>
<td>PR: CI. Course designed to begin training in aural recognition and vocalization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUT 1111, 1112.</td>
</tr>
<tr>
<td>MUS 2116, 2117 MUSIC THEORY</td>
<td>3,3</td>
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<td>PR; MUT 1112. Required of music majors, continuation of MUT 1111 and 1112.</td>
</tr>
<tr>
<td>MUS 2246, 2247 ADVANCED AURAL THEORY</td>
<td>1,1</td>
<td></td>
<td>PR: MUT 1242. Course designed to continue training in aural recognition and vocalization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.</td>
</tr>
<tr>
<td>MUS 3353 JAZZ COMPOSITION AND ARRANGING I</td>
<td>3</td>
<td></td>
<td>PR: MUT 1112 and CI. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.</td>
</tr>
<tr>
<td>MUS 3354 JAZZ COMPOSITION AND ARRANGING II</td>
<td>3</td>
<td></td>
<td>PR: MUT 1112 and CI. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic and melodic practices.</td>
</tr>
<tr>
<td>MUS 3641 JAZZ THEORY AND IMPROVISATION I</td>
<td>(2)</td>
<td></td>
<td>PR: MUT 1112 and/or CI. A study of jazz improvisational techniques and related jazz theory.</td>
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<tr>
<td>MUS 3642 JAZZ THEORY AND IMPROVISATION II</td>
<td>(2)</td>
<td></td>
<td>PR: MUT 3641 or CI. A study of jazz improvisational techniques and related jazz theory.</td>
</tr>
<tr>
<td>MUS 3663 JAZZ STYLES AND ANALYSIS I</td>
<td>(2)</td>
<td></td>
<td>PR: MUT 3642 or CI. A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of the student's own soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.</td>
</tr>
<tr>
<td>MUS 3664 JAZZ STYLES AND ANALYSIS II</td>
<td>(2)</td>
<td></td>
<td>PR: Jazz Styles and Analysis I or CI. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.</td>
</tr>
<tr>
<td>MUS 4311, 4312 ORCHESTRATION</td>
<td>(2,2)</td>
<td></td>
<td>PR: CI. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.</td>
</tr>
<tr>
<td>MUS 4411 SIXTEENTH CENTURY PRACTICE</td>
<td>(3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4421 EIGHTEENTH CENTURY PRACTICE</td>
<td>(3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4571 TWENTIETH CENTURY PRACTICE</td>
<td>(3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MUS 5051 GRADUATE REVIEW OF MUSIC THEORY</td>
<td>(1-4)</td>
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<td>A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and as such does not count toward the graduate degree requirements.</td>
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<tr>
<td>MUS 3201 LANGUAGE DICTION FOR SINGERS</td>
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<td>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.</td>
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### SECONDARY APPLIED MUSIC COURSES (below)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>MVB 1211 APPLIED TRUMPET</td>
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<tr>
<td>MVB 1212 APPLIED FRENCH HORN</td>
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<td>MVB 1213 APPLIED TROMBONE</td>
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<td>MVB 1214 APPLIED BARITONE</td>
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<td>MVB 1215 APPLIED TUBA</td>
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<td>MVJ 1213 APPLIED JAZZ GUITAR</td>
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<td>MVJ 1214 APPLIED JAZZ BASS</td>
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<td>MVP 1211 APPLIED PERCUSSION</td>
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<td>MVS 1211 APPLIED VIOLIN</td>
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<td>MVS 1212 APPLIED VIOLA</td>
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<td>MVS 1213 APPLIED VIOLONCELLO</td>
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<td>MVS 1214 APPLIED DOUBLE BASS</td>
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<td>MVS 1215 APPLIED HARP</td>
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<td>MVS 1216 APPLIED CLASSICAL GUITAR</td>
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<td>MVV 1211 APPLIED VOICE</td>
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<td>MVW 1211 APPLIED FLUTE</td>
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<td>MVW 1212 APPLIED OBOE</td>
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<td>MVW 1213 APPLIED CLARINET</td>
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<td>MVW 1214 APPLIED BASSOON</td>
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<td>MVW 1215 APPLIED SAXOPHONE</td>
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**CLASS PIANO COURSES (below)**

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<th>Course Code</th>
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<tr>
<td>MVK 1111</td>
<td>KEYBOARD SKILLS I</td>
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<tr>
<td>MVK 1121</td>
<td>KEYBOARD SKILLS II</td>
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<tr>
<td>MVK 2111</td>
<td>KEYBOARD SKILLS III</td>
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<tr>
<td>MVK 2121</td>
<td>KEYBOARD SKILLS IV</td>
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<tr>
<td>MVK 3111</td>
<td>MUSIC MAJORS, LEVEL V</td>
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<tr>
<td>MVK 1611</td>
<td>BEGINNING PIANO I</td>
</tr>
<tr>
<td>MVK 1821</td>
<td>BEGINNING PIANO II</td>
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<tr>
<td>MVK 2521</td>
<td>INTERMEDIATE PIANO</td>
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<tr>
<td>MVK 2522</td>
<td>INTERMEDIATE PIANO</td>
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**APPLIED MUSIC COURSES PRINCIPAL (below)**

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APPLIED MUSIC COURSES

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

MVB 2421 TRUMPET MAJOR
MVB 2422 FRENCH HORN MAJOR
MVB 2423 TROMBONE MAJOR
MVB 2424 EUPHONIUM MAJOR
MVB 2425 TUBA MAJOR
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MVW 2421 FLUTE MAJOR
MVW 2422 OBOE MAJOR
MVW 2423 CLARINET MAJOR
MVW 2424 BASSOON MAJOR
MVW 2425 SAXOPHONE MAJOR

APPLIED MUSIC COURSES

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

MVB 3431 TRUMPET MAJOR
MVB 3432 FRENCH HORN MAJOR
MVB 3433 TROMBONE MAJOR
MVB 3434 EUPHONIUM MAJOR
MVB 3435 TUBA MAJOR
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MVS 3435 HARP MAJOR

MUSIC STUDIO PEDAGOGY COURSES

PR: CI. 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.

MVK 4441 PIANO MAJOR
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MVW 4445 SAXOPHONE MAJOR

MASTER CLASS COURSES

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

MVS 5750 STRINGS, MASTER CLASS

MUSIC EDUCATION

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

MUE 3421 CHORAL MATERIALS PRACTICUM
PR: CI. A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3422 BAND MATERIALS PRACTICUM
PR: CI. A study of band materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.
MUE 4941 INTERNSHIP
(1-4)
Part-time internship in an accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of the year experiences when taken in Fall Semester. (S/U only.)

MUE 4942 INTERNSHIP
PR: Admission to the College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of the academic year or program closing. (S/U only.)

THEATRE

THE 2020 THEATRE FUNDAMENTALS
(2)
An introduction to the means and materials of theatre, the nature of theatre forms, the concepts of Total Theatre, and the basic issues in American theatre today. This course open to non-majors and theatre majors should take this course concurrently with their first registration in the group of courses TPA 2200, TPA 2223, TPA 2232, TPP 2110. Required of all theatre majors.

THE 3080C MODERN THEATRE PRACTICE -6A
initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

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

THE 3925 PRODUCTION INVOLVEMENT
(1)
The rehearsals, construction, production of major theatrical works. THE 4927 or this course is required of all majors and minors. Assignments made contractually at the time of registration. Open to non-majors on a credit or noncredit basis. May be repeated.

THE 4180 THEATRE ORIGINS
(4)
PR: Completion of first three years as a theatre major and one from the following: THE 4320, THE 4330, THE 4370, THE 4401, THE 4442, THE 4480; or Cl. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior non-majors with Cl.

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

THE 4266 ARCHITECTURE AND DECOR
(3)
A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/architecture.) Open to upper level non-majors with Cl.

THE 4320 THE THEATRE OF MYTH AND RITUAL/NORTHERN EUROPEAN (950-1600) AND ORIENTAL (400-1200)
PR: THE 3110. An investigation into the relationship of myth, ritual, and theatre. Considers northern European liturgical and secular plays as compared with Hindu, Chinese, and Japanese drama. Open to non-majors with Cl.

THE 4330 SHAKESPEARE FOR THE THEATRE
(3)
PR: THE 3110. A close study of selected plays with special emphasis on their performance values. Open to non-majors with Cl.

THE 4370 THE 19TH CENTURY THEATRE REVOLUTION
(3)
PR: THE 3110. Survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity. Open to non-majors with Cl.

THE 4401 O'NEILL AND AFTER
PR: THE 3110. A course in the function of the script for the theatre artist treating material in the American Theatre from 1915 to 1964.
The 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE (3)
PR: THE 3110. A study of comedic function in scripts from Greek and Roman, Restoration and French Neoclassical of the late 17th century and other plays from the late 18th and late 19th centuries which reflect similar characteristics. Open to non-majors with CI.

The 4480 DRAMA-SPECIAL TOPICS (3)
PR: THE 3110. A study of a significant playwright or grouping of playwrights, e.g. Moliera, Brecht, recent American dramatists. Open to non-majors with CI.

The 4562 SENIOR COLLOQUIUM (4)
PR: Completion of first three years as a theatre major and one from the following: The 4320, THE 4330, THE 4370, THE 4401, THE 4442, THE 4480; or CI. A course for advanced students focusing on theatrical and dramatic theory in relation to actual stage practice. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior 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 4722 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS (3)
Play production process as it applies to theatre artist-in-schools programs, including development of related classroom workshops and preparation of study guides and preparational program materials as well as design, director and rehearsal of play and touring groups.

The 4723 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS (3)
The artistic process of performing for various school audiences and practice of conducting classroom workshops following each performance.

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.

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

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

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

The 4930 SELECTED TOPICS IN THEATRE (1-8)
PR: CI. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

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

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

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

TPA 2223 THEATRE CRAFTS: LIGHTING (3)
Required of all design majors. This course or TPA 2230 is required of all theatre majors. Open to non-majors. The basic equipment and skills used in lighting stage productions. An introductory course with lab.

TPA 2230 THEATRE CRAFTS: COSTUME (3)
Required of all design majors. This course or TPA 2223 THEATRE CRAFTS: LIGHTING required of all theatre majors. Open to non-majors. The basic materials, equipment, and skills used in costume construction for the stage. An introductory course with lab.

TPA 3004 MEANS OF VISUAL EXPRESSION (3)
PR: Completion of the four required 2000 level courses. The study of presentational techniques for visual design and technology as applied to the development of visual dynamics. Required of all theatre majors. Open to non-majors with TPA 2220 and CI.

TPA 3221 LIGHTING: THEORY AND PRACTICE (3)
PR: TPA 2223. 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.

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

TPA 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. Lecture and Laboratory.

TPA 3601 STAGE MANAGEMENT (2)
PR: TPA 2200, TPA 2223, or TPA 2230. 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 PUPPETRY PERFORMANCE AND PRODUCTION (4)
PR: TPA 3810. The creation, building, rehearsal, and performance of plays for puppet theatre. May be repeated one time for additional elective credit, with CI, to total of 8 hours. Open to non-majors with CI.

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

TPA 4040 COSTUME DESIGN (4)
PR: ART 3301C, THE 4284, TPA 2230 and portfolio review. The aesthetic and practical application of the elements of design in costume for theatre presentation. A requirement in the design track/costume.

TPA 4060 SCENE DESIGN (4)
PR: TPA 4211, THE 4286, 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.
TPP 4081 SCENE PAINTING (2)
PR: TPP 3086. A practical course in the painting of stage scenery; media and application. Open to non-majors with Cl.

TPA 4208 STAGECRAFT AND DRAFTING (3)
PR: TPP 3086. A practical course in drafting for the stage, scenic construction and application. A requirement in the design/scenic and lighting.

TPA 4231 COSTUME CONSTRUCTION (3)
PR: TPP 3086, TPA 2230 or Cl. A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, corsetry; both period and modern.

TPA 4082 STAGE PROPERTIES: TECHNIQUES AND MATERIALS STUDIO (2)
PR: TPP 3086. Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop. Open to non-majors.

TTP 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. May be taken by non-majors with TTP 2110 and Cl.

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 Cl.

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 Cl. The preparation and performance of a production for a special audience (ethnic, children, aged, institutionalized, etc.) With Cl, may be repeated one time as additional elective credit (total of 6 hours). Open to non-majors with Cl.

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. Open to upper-level non-majors with Cl. May be repeated for credit.

TTP 3580 SPECIAL SKILLS IN MOVEMENT (2)
PR: TTP 3500. Stage combat, circus and acrobatic techniques, and other special techniques of movement. Repeatable for credit. Open to non-majors with Cl.

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

TTP 4140 STYLES OF ACTING (3)
PR: TTP 4150 and audition. Methodology and styles. Examination of the actor's craft and skills needed to fulfill the demands of various theatre forms. Special attention will be paid to the history of acting styles. Required of all theatre majors with a performance concentration.

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 ADVANCED SCENE STUDY (3)
PR: TTP 4152, 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: TPP 4150 or Cl. Preparation for professional audition; discussion of professional objectives.

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

TTP 4250 MUSIC THEATRE WORKSHOP (3)
PR: TPP 3111 or Cl. Special problems in acting as applied to the musical theatre with emphasis on singing and dance.

TTP 4310, 4311 DIRECTING I, II (3,3)
PR: TTP 4150. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

TTP 4610 WRITING FOR THE THEATRE I (3)
PR: Completion of the first two years as a theatre major or Cl. 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. Advanced work on full-length plays is available with Cl. May be repeated for credit. Open to non-majors with Cl.

TTP 4920 SENIOR WORKSHOP FOR ACTORS (3)
PR: TTP 4180, TTP 3500, TTP 3790L. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.
HUN 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 normal nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits

NUR 3067C NURSING PROCESS
PR: RN student, PR or CON: NUR 3068C. 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 3068C CLIENT 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
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; social-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 nursing of the childbearing family; uses the nursing process in providing family centered maternal-newborn care during normal intrapartal and post-partal parental experiences, and selected high risk childbearing situations.

NUR 3458L NURSING INTERVENTION II

NUR 3536 NURSING PROCESS III
PR: NUR 3117, 3066C, 3067C, 3615, 3615L. Explores the nursing process as it relates to the psychiatric-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 interventions based on the nurse-client relationship. Provides opportunities to apply knowledge from growth and development, biopsychopathology 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; Cl. The focus of this course is on the concepts, theory, and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

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

NUR 3829 ETHICAL-LEGAL ASPECTS IN NURSING AND HEALTH CARE
PR: Permission of faculty. Introduction to contemporary bioethical and legal issues confronting 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 upon 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 V
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 in 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 4256. Clinical nursing practice in secondary, tertiary and community health care settings with clients of all age groups. Includes care of clients with problems in cell growth and proliferation and with interferences in metabolic, regulatory mechanisms and elimination. Includes essential psychomotor skills.

NUR 4257 NURSING PROCESS VI

NUR 4257L NURSING INTERVENTION V
PR: NUR 4256 and 4256L. Concurrent with NUR 4257, 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 4256 NURSING PROCESS VII
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 4256 NURSING PROCESS VIII
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 4256C NURSING PROCESS VII
PR: NUR 4256, 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 4256 NURSING PROCESS VIII
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.

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PUBLIC AND COMMUNITY HEALTH EDUCATION COURSES

HSC 2100 CONTEMPORARY HEALTH SCIENCE (3)
A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

HSC 4203 INTRODUCTION TO PUBLIC HEALTH (3)
A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

HSC 4223 PREVENTIVE HEALTH PRACTICES IN THE WORKPLACE (3)
PR: Cl. The content of this course focuses on a survey of health problems and concerns as they exist in a variety of work environments. No prior education or experience in this area is required.

HSC 4541 HUMAN STRUCTURE AND FUNCTION (3)
PR: Fundamentals of biology with lab or Cl. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught.

HSC 4554 SURVEY OF HUMAN DISEASES (3)
PR: Fundamentals of Biology with lab or Cl. An overview of the nature, types, and mechanisms of diseases of the major body systems.

HSC 5319 HEALTH PROBLEMS OF SCHOOL AGE POPULATION (3)
A study of health problems and needs of school age students, including a health status screening laboratory.

PHC 4930 SPECIAL TOPICS: PUBLIC HEALTH (1-6)
PR: Cl. The content of this course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.
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Associate Dean: JOHN A. SHIVELY

Associate Dean: MARTIN D. DUNN

Associate Dean: JOHN T. RIGGIN, JR.

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- Medical Microbiology and Immunology: HERMAN FRIEDMAN
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- Ophthalmology: WILLIAM E. LAYDEN
- Pathology: DAVID T. ROWLANDS, JR.
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- Physiology: CARLETON H. BAKER
- Psychiatry and Behavioral Medicine: ANTHONY J. READING

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Assistant Dean for Graduate Studies: SUE M. BISHOP

Assistant Dean for Student Affairs (Acting): PATRICIA A. GORZKA

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**Dean**

Associate Dean for Academic Affairs: PETER J. LEVIN

Associate Dean for Administration: JOHN H. SKINNER

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- Assistant Vice President for Records and University Registrar: TBA

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- Center for Teaching Enhancement: JAMES A. OISON
- Florida Center for Urban Design & Research: DAVID A. CRANE
- Florida Institute of Oceanography: JOHN C. ODAN
- Institute on Black Life: JUEL H. SMITH
- International Affairs Center: MARK T. ORR
- International Exchange Center: HAROLD L. SHEPPARD
- Gerontology: SUSAN W. JUDE
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- SUS Extension Library: VIRGINIA O'HERRON
- University Library (Acting): SAMUEL FUSTUKUJIAN

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Associate Dean: TBA

Associate Dean: TBA

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Coordinator of Advising: ALBERT A. LATINA
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- JAMES W. BARNARD

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- MARILYN MYERSON

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- 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 of Library and Information Science
- School Management Institute
- South Florida Educational Planning Council Director
- Clinical Education & Student Personnel
- SunCoast Area Teacher Training Program (SCATT)
- Teacher Education Center
- West Central Regional Management Network
- SunCoast Area Teacher Training Center for Excellence Research Program
- CONSTANCE HINES

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Electrical Engineering  ELIAS K. STEFANAKOS
Industrial and Management  PAUL E. GIVENS
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Mechanical Engineering  GEORGE R. CARD

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Coordinator, Disabled Student
Academic Services  ROBERTA ARMSTRONG
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Coordinator, Project Thrust  MACK DAVIS
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Army ROTC  LT COL HOWARD M. ABNEY

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Assistant Dean for Academic Affairs  ROY I. BOGGS
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Director, Student Affairs  MADELYNN L. ISAACS
Director, ECC/USF Learning Resources  CHARLES RITCHIE
Director, University Relations and Development  JAMES E. HOF

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of USF - Sarasota (Interim)  PAUL E. MCCLENDON
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Director, Bi-County Center  RONALD LERNER
for Engineering  THOMAS J. PENN
Director, Media Center
Director, Physical Plant
Director, Police Services for
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Director, Records and Registration: NANCY E. FERRARO
Director, Student Affairs (Acting): ANNE FISHER

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Director, New College Admissions: EDWARD CUSTARD
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Natural Sciences: TBA
Social Sciences: ANTHONY ANDREWS

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Director, Development: SAMUEL FUSTUKJIAN
Director, Foynter Library: STEPHEN RITCH
Director, Student Affairs: TBA

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Director, Academic Support Services: PATRICIA MARTINI
Director, Business, Finance, and Auxiliary Services: ANNE FLAHIVE

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Vice President: THOMAS TOBIN
Associate Vice President: RANDALL S. CAIN
Director, Alumni: LELAND PATOUILLET
Business Manager, USF Foundation, Inc.: JOHN O. SCOTT

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Associate General Counsel: JOLINE MICELI-MULLEN
Associate General Counsel: WENDY J. THOMPSON

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Executive Director, Technology Transfer: RALPH D. GUNTER
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Vice President: DANIEL R. WALBOLT
Associate Vice President and Dean of Students: CHARLES F. HEWITT
and Dean of Students: RAYMOND C. KING
Associate Vice President, Housing and Auxiliary Services: PAUL GRIFFIN
Assistant Vice & Director, Intercollegiate Athletics: TROY COLLIER
Assistant Dean of Students: WANDA LEWIS-CAMPBELL
Associate Dean of Students: VANESSA DIAZ-BETTON
Assistant to the Associate Dean of Students: FARAH KHORSANDIAN-SANCHEZ
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Director, Student Health Services: MARIA ANDERSON
Director, Campus Recreation: ANDREW HONKER
Director, Financial Aids: GWYN FRANCIS
Director, Student Publications: RICHARD WILBER
Director, University Center: PHYLLIS MARSHALL
Coordinator, Veteran Affairs: MEREDITH NICKLES
Director, USF Golf Course: ROBERT SHIVER
Director, USF Sun Dome: MICHAEL LA PAN

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Vice President: J. MARK LONO
Director, Community Relations: ANN ROSS
Director, Media Relations & Publications: DANIEL CASSEDAW
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, as of August 7, 1990. (A semicolon between degrees indicates different institutions.)

["Faculty member"]

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

ABADIA, ANTONIO, Assistant Professor (Anesthesiology), 1990
B.S.; M.D., University of Puerto Rico, 1985

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

ACKERMANN, JOHN R., Professor (Surgery), 1983
M.B., Ch.B., M.D., University of Cape Town, South Africa, 1985

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, 1989

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

AERTKER, JEAN H., Visiting Instructor (Public Sector Medicine-Nursing), 1995
B.S.; M.S.N., University of South Florida, 1984

AIBA, MASAKIHIRO, Associate in Research (Surgery), 1989
M.D., Showa University School of Medicine, 1985

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

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

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

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

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

ALEXANDER, LILIA, 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., Indiana University, 1989

ALLEN, HAROLD C., Associate Professor (Information Systems & Decision Sciences), 1987
B.A.; M.B.A.; Ph.D., University of Florida, 1969

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

ALLISON, ELIZABETH A., Visiting Assistant Professor (English), 1989
B.A.; B.A.; M.A., University of Florida, 1963

ALLMON, WARREN D., Assistant Professor (Geology), 1988
A.B.; Ph.D., Harvard University, 1968

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

ALTSCHUL, 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 (Interdisciplinary Social Sciences), 1982
B.A.; M.A., M.D., University of Geneva, 1978

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

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

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

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

ANDREWS, ANTHONY P., Chairperson-Professor (Social Sciences), New College of USF, 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., Professor (Anthropology), 1972
B.A.; Ph.D., University of North Carolina, 1972

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

ANTHONY-DAVIS, BRENDAN, Visiting Instructor (FMHI), 1984
B.S.; M.A., Antioch University, 1984

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

APFELBECK, NORMA R., Visiting Assistant Professor (College Administration, Education), 1989

ARATA, SATORU, Associate in Research (Medical Microbiology), 1989
B.S., M.S., Showa University, 1983

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

ARNADE, CHARLES W., Professor - Coordinator (Lakeland Center), 1981
B.A., M.A., Ph.D., University of Florida, 1955

ARNOLD, DEBORAH, Counselor/Advisor (Academic Advising), 1989

ARSENAULT, 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

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

AVCREMANN, 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, 1959

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

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

BABIONE, LOUIS, Assistant In Research (Pediatrics), 1984
B.S., M.S., Florida State University, 1975

BAGU, ADDAGATLA J.G., Assistant Professor (Industrial & Management Systems Engineering), 1985
B.S., M.S.; M.A.; M.S.O.R.; Ph.D., Southern Methodist University, 1979

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

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

B.B., M.A., Ph.D., University of Michigan, 1964

B.S., M.S., Ph.D., Carnegie-Mellon University, 1967, P.E.

B.A., M.A., Ph.D., University of Arizona, 1984

B.S., M.S., Ph.D., University of Florida, 1983

B.A., M.A., Ph.D., University of Arizona, 1964
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BAGLEY, DANIEL S. III, Associate Professor (Mass Communications), 1979
B.A.; M.B.A.; Ph.D., University of Tennessee, 1977

BAILE, WALTER F., Associate Professor (Cancer Education), 1986
B.A.; M.D., University of Pavia, Italy, 1972

BAKER, CARLETON H., Professor-Chairperson (Physiology), 1971
B.A.; M.A.; Ph.D., Princeton University, 1955

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

BAKER, GREGORY R., Visiting Research Associate (VP for Research), 1989
B.S., Ph.D., Louisiana State University, 1969

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

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

BALL, WILLIAM L., Assistant in Research (Engineering), 1988
B.S.; M.A., University of South Florida, 1980

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

BALLESTER, OSCAR F., Assistant Professor (Internal Medicine), 1989
M.D., University of Cordoba, Argentina, 1971

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

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

BANNISTER, JENNIFER K., Visiting Assistant in (Education), 1998
B.A., M.A., University of South Florida, 1978

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

BARBER, MICHAEL J., Associate Professor (Biochemistry), 1983
B.Sc., M.Sc., Ph.D., University of Sussex, 1975

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

BARKHOLZ, GERALD R., Associate Professor (Childhood Education), 1968

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

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

BARNETT, RISA B., Visiting Instructor (Communication Sciences), 1989
B.A.; M.A., University of Florida, 1984

BAROBS, BRIGITA M., Visiting Assistant In (Exceptional Child Education), 1988
B.A., University of Minnesota, 1984

BARRETT, ANDREW J., Assistant Dean-Instructor (Engineering), 1982
B.A.; M.A.; Ed.D., University of Florida, 1978

BARRIOS, MAURA, Academic Administrator (Academic Affairs), 1990
B.A., Utah State University, 1979

BARRY, FRANCIS P., Visiting Research Associate (Biochemistry), 1990
B.Sc., Ph.D., The National University of Ireland, 1984

BARTELLS, 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, 1964

BARYLSKI, ROBERT V., Research Associate Professor, Sarasota Campus, 1979
B.A.; M.A., Ph.D., Harvard, 1972

BASS, DAWN A., Acting Academic Administrator (GraphicStudio), 1990
B.A., University of South Florida, 1972

BATES, MARGARET L., Acting Provost/Professor (Social Sciences), New College of USF, 1975

BATSCH, GEORGE M., Jr., Associate Professor (Psychological and Social Foundations), 1989
B.A.; M.A., Ed.D., Ball State University, 1978

BATTANE, GARY R., Visiting Instructor (Crime & Delinquency, FMHI), 1988
B.A.; M.A., University of Detroit, 1977

BAUER-SARDINA, IRMA K., Assistant in Research (Pediatrics), 1988
B.A., Rutgers University, 1987

BAUM, ROSALIE M., Assistant Professor (English), 1987
A.B.; M.A.; Ph.D., University of Detroit, 1976

BAUMGARTEN, STEVEN A., Associate Professor (Marketing), 1976
B.A.; M.S.; M.P.; Ph.D., Purdue University, 1971

BAYONA-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, Student Affairs), 1972
B.A.; M.A.; Ed.D., Nova University, 1975

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

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

BECKER, JEANNE L., Visiting Assistant Professor (Obstetrics/Gynecology), 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

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

BEHAKKE, 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, ELIZABETH E., Visiting Assistant Professor (Communications), 1988
B.A.; M.A., Ph.D., University of Texas at Austin, 1963

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

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

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

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

BENADUSI, GIANNINA, Assistant Professor (History), 1988
Ph.D., Syracuse University, 1988

BENTON, STEPHEN A., Visiting Assistant In (Pediatrics), 1981
B.S., Purdue University, 1972

BENJAMIN, WILLIAM F., Professor (Educational Leadership Education), 1968
B.A., M.A., Ph.D., George Peabody College, 1961

BENTON, KAARON, Assistant Professor (Pathology), 1989
B.S.; M.D., Medical College of Pennsylvania, 1983

BENSON, ROBERT S., Visiting Assistant Professor (Chemistry), 1990
B.S.; M.S.; Ph.D., University of Arkansas, 1978

BENTLEY, MARY ANN M., Lecturer (Theatre), 1975
B.A., University of South Florida, 1962

BENTON, J. EDWIN, Associate Professor (Political Science), 1979
B.A.; M.A.; Ph.D., Florida State University, 1978

BENTON, THELMA D., Academic Administrator (Undergraduate Studies, Academic Affairs), 1969
B.S.; M.S.; Ph.D., Florida State University, 1981

BERCU, BARRY B., Professor (Pediatrics), 1984
B.S., M.D., University of Maryland, 1989

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

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

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

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

BERMAN, CLAUDIA G., Assistant Professor (Radiology), 1989
B.A., Ed., Eastern Washington University, 1975
BOCHANER, ARTHUR P., Professor-Chairperson (Communication), 1984
B.S.; M.A.; Ph.D., Bowling Green State University, 1971
BOOGS, ROY A., Assistant Dean-Associate Professor (Information Systems and Decision Sciences), Ft. Myers Campus, 1985
B.A.; M.A.; M.S.I.S., University of Pittsburgh, 1977
BOLLEN, STEVEN E., Professor (Finance), 1978
B.S.; M.B.A., Ph.D., New York University, 1969
BONDI, JOSEPH G., Jr., Professor (Educational Leadership Education), 1965
BORCHERT, JILL E., Assistant Professor (Political Science), 1990
B.S.; M.S.; Ph.D., University of California at Riverside, 1990
BORG, JEAN M., Visiting Instructor (Education), 1982
B.S., M.A., Prof. Degree., University of Illinois, 1967
BRAGUES, EDUARDO F., Visiting Assistant Professor (Neurology), 1990
M.D., Federal University of Pernambuco, Brazil, 1976
BORKOWSKI, FRANCIS T., University President, 1988
B.S.; M.M.; Ph.D., West Virginia University, 1967
BORMAN, WALTER C., Professor (Psychology), 1990
A.B.; Ph.D., University of California at Berkeley, 1972
BOSEK, VOJTECH, Assistant Professor (Anesthesiology), 1987
M.D., University of Prague, 1966
BOSTOW, DARREL E., Professor (Psychological and Social Foundations Education), 1970
B.A., M.A., Ph.D., Southern Illinois University, 1970
BOUS, PIERRE J., Jr., Associate Dean-Associate Professor (Continuing Education, College of Medicine) Professor (Obstetrics/Gynecology), 1964
B.S., M.S., M.D., Louisiana State University School of Medicine, 1971
BOWERS, LOUIS E., Professor (Physical Education, Education), 1987
B.S.; M.A.; Ph.D., Louisiana State University, 1964
BOWERS, RICHARD T., Director (Business Administration), 1983
B.S.; M.S., Ed.D., George Peabody College, 1961
BOWIE, JULIUS R., Assistant Professor (Anesthesiology), 1989
B.S.; M.D., Medical College of Georgia, 1983
BOWMAN, R. LEWIS, Professor (Political Science), 1973
B.A., Ph.D., University of North Carolina, 1964
BOWYER, KEVIN W., Associate Professor (Computer Science 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, FELEOIA R., Visiting Instructor (Psychiatry), 1986
B.S., University of North Carolina, 1969
BOYD, L. ADLAI, Academic Administrator (Child and Family Studies, FMHI), 1981
B.A.; M.Div.; M.Ed.; Ph.D., Temple University, 1978
BOYD, SARAH E., Associate Professor (Nursing), 1977
R.N.; B.S.; M.S.; M.P.S., Long Island University, 1977
BRADHAM, DOUGLAS D., Associate Professor (Public Health), 1985
A.B., M.P.H., M.A., D.P.H., University of North Carolina, Chapel Hill, 1981
BRADY, PATRICK G., Professor (Internal Medicine), 1978
A.B.; M.D., New Jersey College of Medicine, 1968
BRAMAN, ROBERT S., Professor (Chemistry), 1967
B.S.; Ph.D., Northwestern University, 1968
BRAMSON, ROBERT T., Associate Professor (Radiology), 1985
A.B.; M.D., Washington University School of Medicine, 1987
BRANDENBURG, NANCY A., Assistant Professor (Epidemiology, FMHI), 1986
B.S.; 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.A.; M.A., University of South Florida, 1978
BRANDOLIN, ADRIANA, Visiting Research Associate (Engineering), 1989
Ph.D., Universidad na Cidnac Delsur, Argentina, 1987
BRANNICK, MICHAEL T., Assistant Professor (Psychology), 1986
B.A., M.A., Ph.D., Bowling Green State University, 1988
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CANDELORA, ELIZABETH C., Assistant In Research (Public Health), 1987
B.S.N., Marquette University, 1971

CANE, ROY D., Professor (Anesthesiology), 1990
M.B.B.Ch., University of Witwatersrand School of Medicine, 1969

CANNONS, ANDREW C., Research Associate (Biochemistry), 1987
B.Tech., Ph.D., University of Bradford, 1982

CANO, CARLOS J., Associate Professor (Languages), 1970
B.A.; M.A., Indiana University, 1973

CAPASPS, CLEON W., Professor (Languages), 1970
B.A., M.A., Ph.D., University of New Mexico, 1984

CARBONELL, FRIEDA W., Professor (Nursing), 1973

CARD, GEORGE R., Academic Administrator (Engineering), 1970
B.S.; M.A.; University of South Florida, 1971

CARDER, KENDALL L., Professor (Marine Science), St. Petersburg Campus, 1969
B.S.; M.S., Ph.D., Oregon State University, 1970

CAREY, LARRY C., Chairperson-Professor (Surgery), 1990
B.S., M.D., The Ohio State University, 1969

CAREY, LOU M., Associate Professor (Educational Measurement and Research), 1980
B.S.; M.A.; Ph.D., Florida State University, 1978

CARGILL, CAROL J., Professor (Languages), 1977
B.A.; M.A., Ph.D., Georgetown University, 1974

CARLAN, STEPHEN J., Visiting Assistant Professor (Obstetrics and Gynecology), 1986
B.S.; M.D., Medical College of Georgia, 1974

CARLSON, REBEKAH L., Instructor (Communication Sciences and Disorders), 1968
B.S.; M.S., University of South Florida, 1970

CARNAHAN, ROBERT P., Professor (Civil Engineering and Mechanics), 1980
B.S.; M.S.E.; Ph.D., Clemson University, 1973, P.E.

CARNES, JOHN W., Visiting Assistant Professor (Family Medicine), 1985
B.A.; M.S., Ph.D., Indiana State University, 1979

CARPENTER, WILLIAM C., Professor (Civil Engineering and Mechanics) 1976
B.S.C.E., Ph.D., North Carolina State University, 1966, P.E.

CARR, DAVID R., Associate Professor (History), St. Petersburg Campus, 1971
B.A.; M.A., Ph.D., University of Nebraska, 1971

CARRASCO, MAGDALENA E., Associate Professor (Humanities), New College of USF, 1977
B.A.; M.A., M.Phil., Yale University, 1975

CARROLL, DELOS L., JR., Associate Professor (Psychological and Social Foundations Education), 1965

CARTLIDGE, JACK E., Associate Professor (Humanities), New College of USF, 1975
B.A.; M.A., University of Alabama, 1949

CARVER, JANE D., Instructor (Pediatrics), 1981
B.S.; M.S., Florida State University, 1982

CASTLE, RAYMOND N., Graduate Research Professor (Chemistry), 1981
B.A.; M.A., Ph.D., University of Colorado, 1944

CATALDO, JUDITH, Acting Director (Fine Arts), 1988
B.M.; M.M., University of South Florida, 1985

CAVANAGH, DENIS, Professor (Obstetrics and Gynecology), 1977
M.B., Ch.B., University of Glasgow, 1952

CEBULSKI, JAMES C., Counselor/Advisor (Undergraduate Studies), 1982
B.Ed., M.A., Kent State University, 1987

CHAE, SOO BONG, Professor (Natural Sciences), New College of USF, 1975
B.S.; M.A.; Ph.D., University of Rochester, 1970

CHAMBERS, WILLIAM V., Assistant Professor (Psychology) Ft. Myers Campus, 1989
B.A.; M.A., Ph.D., University of Florida, 1984

CHAMUSCO, LARRY A., Visiting Assistant Professor (Chemistry), 1989
B.S.; Ph.D., University of Florida, 1989

CHANDLER, KEITH W., Associate Professor (Internal Medicine) 1981
B.A., M.D., Indiana University, 1975

CHANG, ROBERT S.F., Associate Professor (Physics), 1985
B.Sc., M.Sc., Ph.D., Cornell University, 1976

CHARLES, THOMAS, Research Associate (Business), 1989
B.A., M.B.A., Indiana University, 1979

CHALIMONT, JORGE L., Assistant Professor, (Anesthesiology), 1990
B.Sc.; M.D., Universidad Autonoma de Nuevo Leon, 1981

CHEN, LI-TSUN, Professor (Anatomy), 1980
B.Sc.; Ph.D., University of Alberta, 1968

CHEN, TSONG-MING, Professor (Electrical Engineering), 1972
B.S.; Ph.D., University of Minnesota, 1984

CHEN, P. H., Chairperson-Professor (ISDS, Business Administration), 1990
B.S.B.; M.P.A.; Ph.D., University of Minnesota, 1977

CHERRY, R. ADRIAN, Associate Professor (Languages), 1961
B.A.; M.A., Ph.D., University of Kentucky, 1960

CHESSA, FRANK, Assistant in (FMHI), 1989
B.A.; M.A., University of South Florida, 1989

CHEZ, RONALD A., Professor (Obstetrics/Gynecology), 1989
A.B.; M.D., Cornell University Medical College, 1957

CHILDRESS, KAREN L., Visiting Assistant In (Adult and Vocational Education), 1986
B.A., University of South Florida, 1986

CHIOU, YUN LEE, Professor (Electrical Engineering), 1984
B.S.E.E.; M.S.E.E.; M.S.; Ph.D., Purdue University, 1989

CHIRIKOS, THOMAS N., JR., Professor (Public Health), 1985
B.A.; M.A.; Ph.D., Ohio State University, 1967

CHISNELL, ROBERT E., Associate Professor (English), 1967
B.A.; M.A.; Ph.D., Auburn University, 1971

CHMEL, HERMAN, Professor (Internal Medicine), 1986
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CHU, SHIRLEY S., Professor (Electrical Engineering), 1988
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B.S., University of West Florida, 1979

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B.S., University of West Florida, 1979

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B.A.; M.B.A.; Ph.D., Michigan State University, 1975

B.S., Ph.D., University of Connecticut, 1985
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<td>Visiting Associate Professor (FMHI), 1988</td>
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<td>DUNLEAVY, LAWRENCE P.</td>
<td>Assistant Professor (Electrical Engineering)</td>
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<td>B.S.E.E.; M.S.E.E., Ph.D., University of Michigan 1988</td>
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<td>DUNN, Marvin R.</td>
<td>Associate Dean-Professor (Medicine), 1990</td>
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<td>B.A.; M.D., University of Texas Southwest Medical School, 1955</td>
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<td>DUPREE, LARRY W.</td>
<td>Assistant In (Geropsychological Studies, FMHI), 1981</td>
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<td>EAKER, ALAN B.</td>
<td>Professor-Director (Visual Arts), 1969</td>
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<td>EARP, THOMAS E.</td>
<td>Academic Administrator (Forensics Program), 1999</td>
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<td>EASTERLING, B.</td>
<td>Academic Administrator (Career Resource Center), 1988</td>
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<td>ECHLERBERGER, WAYNE F.</td>
<td>Chairperson-Professor (Engineering), 1989</td>
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<td>B.S.; M.S.E.; M.S.E., M.P.H., Ph.D., University of Michigan, 1964</td>
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<td>ECHEVARRIA, KATHERINE H.</td>
<td>Instructor (Nursing), 1985</td>
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<td>EDELMAN, PLOTZ</td>
<td>Visiting Scholar/Scientist (Engineering), 1990</td>
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<td>M.S.; Ph.D., Institute of Electron Technology, 1986</td>
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<td>EDIDIN, ARON Z.</td>
<td>Associate Professor (Humanities) New College of USF, 1989</td>
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<td>B.A.; Ph.D., Princeton University, 1981</td>
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<td>EDWARDS, CHARLES</td>
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<td>Assistant In (Engineering), 1988</td>
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<td>EDWARDS, SAMUEL</td>
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<td>EGOLD, DIANA L.</td>
<td>Assistant In Research (Obstetrics), 1989</td>
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<td>B.S., Carrol College, 1988</td>
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<td>EICHLER, DUANE C.</td>
<td>Professor (Biochemistry), 1977</td>
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<td>B.A.; Ph.D., University of California at Los Angeles, 1972</td>
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<td>EILERS, FREDERICK I.</td>
<td>Associate Professor-Assistant Chairperson (Biology), 1967</td>
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<td>B.S., M.S.; Ph.D., University of Michigan, 1968</td>
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<td>EISON, JAMES A.</td>
<td>Professor/Director, Teaching Enhancement Center (Academic Affairs), 1990</td>
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<td>B.A.; Ph.D., University of Tennessee, Knoxville, 1979</td>
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<td>ELFENBEIN, GERALD J.</td>
<td>Professor (Internal Medicine), 1989</td>
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<td>A.B.; M.D., Johns Hopkins University, 1970</td>
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<td>EL-HADIDY, BAHAA</td>
<td>Associate Professor (Library and Information Science, Education), 1987</td>
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<td>B.Sc.; M.L.S.; Ph.D., University of Pittsburgh, 1974</td>
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<td>ELLIOTT, CATHERINE</td>
<td>Assistant Professor (Economics), 1989</td>
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<td>B.A.; B.S.; M.A., Ph.D., University of Michigan, 1982</td>
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<td>ELLIS, CAROLYN S.</td>
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<td>B.A.; M.A., Ph.D., State University of New York at Stonybrook, 1981</td>
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<td>ELMER, DIANE H.</td>
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<td>EMER, WILLIAM G. JR.</td>
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<td>B.A.; M.A.; Ph.D., University of Georgia, 1971</td>
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<td>EMERY, PATRICIA R.</td>
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<td>EMMANUEL, PATRICIA J.</td>
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<td>ENDICOTT, JAMES N.</td>
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<td>A.B.; M.D., Indiana University School of Medicine, 1967</td>
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<td>ENGEL, CHARLES W.</td>
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<td>GREEN, CAROLE A.</td>
<td>Associate Professor (Economics), 1982</td>
<td>B.A., M.A., Ph.D., University of Illinois</td>
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<td>GREENBAUM, PAUL E.</td>
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<td>B.A.; M.S.; Ph.D., University of Kansas</td>
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<td>GREENBAUM, SUSAN D.</td>
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<td>Associate Professor (Cancer Education), 1986</td>
<td>S.B.; M.D., University of Pittsburgh</td>
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<td>GREENFIELD, GEORGE D.</td>
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<td>A.B.; M.D., State University of Utrecht</td>
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<td>GREENMAN, NANCY P.</td>
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<td>Name</td>
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</table>
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LAX, BERNARD, Professor (Exceptional Child Education), 1979
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LAYDEN, WILLIAM E., Professor-Chairperson (Ophthalmology), 1972
B.A., M.D., University of Vermont, 1963
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LEDFORD, DENNIS K., Visiting Assistant Professor (Internal Medicine), 1985
B.Ch.Eng.; M.D., University of Tennessee, 1976
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LEE, REX A., Visiting Associate in (Engineering), 1990
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LEE, SUNG JAE, Professor (Mathematics), 1981
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LEEDS, ROBERT L., Jr., Visiting Lecturer (Business Administration), 1982
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Perez, Louis A., Jr., Graduate Research Professor (History), 1970
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Peters, Roger H., Assistant Professor (Crime and Delinquency, FMH), 1988
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Petersen, Donavan D., Professor (Educational Leadership Education), 1968
B.S.; M.A.; Ph.D., University of Pittsburgh, 1970

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Pirkham, Patricia, Program Director (Public Health), 1989
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Polzin, Steven E., Assistant In Research (Engineering), 1988
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Pothoven, Kenneth L., Associate Professor-Chairperson (Mathematics), 1970
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B.A., M.S.; Ph.D., Florida State University, 1969

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SANKAR, RAVI, Assistant Professor (Electrical Engineering), 1985
B.E.; M.Eng.; Ph.D., Pennsylvania State University, 1985
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SAPORTA, SAMUEL, Associate Professor (Anatomy), 1977
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SARMIENTO, CYNTHIA D., Lecturer (Computer Science Engineering), 1984
B.S.; M.S., Case Institute of Technology, 1976
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B.A.; M.F.A., University of South Florida, 1982
SAUNDERS, MARY J., Associate Professor (Biology), 1986
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B.S.; Ph.D., University of South Florida, 1989
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B.S.; M.D., Northwestern University, 1987
Sawai, Shirley K., Visiting Instructor (Medicine), 1989
B.S.; B.S., M.D., University of South Florida, 1985
Saxon, SUE V., Professor (Gerontology), 1963
B.S., M.S., Ph.D., Florida State University, 1963
Scaglione, SCOTT, Associate Professor (Radiology), 1990
B.A.; M.S., University of Florida, 1975
Chalumeau, HARRY J., Jr., Associate Professor (Geography), St. Petersburg Campus, 1969
B.S.; M.A., University of Cincinnati, 1963
Schapira, DAVID V., Associate Professor (Cancer Education), 1987
B.S.; M.B., Dundee University, Scotland, 1974
Schapira, NANCE B., Associate In Research (Gerontology Center), 1987
M.A., Dundee University, Scotland, 1971
Scharp, JOHN E., Instructor (Anesthesiology), 1990
B.S.; M.D., Medical College of Virginia, 1986
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B.A.; M.A.; Ph.D., University of Michigan, 1982
Scheffler, TOWNER B. Assistant Professor (Chemistry), 1985
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Schenk, DAVID P., Acting Dean-Professor, Sarasota Campus, 1974
B.A.; M.A.; Ph.D., Pennsylvania State University, 1971
Schuebler, JANE W., Professor (Communication Sciences and Disorders), 1971
B.S., B.A.; M.S.; M.A.; Ed.D., Nova University, 1975
Schuebler, WILLIAM H., Dean (Undergraduate Studies, Academic Affairs), Professor (English), 1964
B.A.; M.A.; Ph.D., Syracuse University, 1964
Schildt, Warren K. Associate Professor (Management), 1985
B.A.; M.B.A., Ph.D., University of Maryland, 1982
Schmidt, PAUL J., Professor (Pathology), 1981
B.S.; M.S.; M.D., New York University, 1953
Schneider, RAYMOND J., Professor (Communication), 1988
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Schneider, S.L., Assistant Professor (Psychology), 1988
B.S.; M.S., Ph.D., University of Wisconsin, 1989
Schneller, STEWART W., Professor-Chairperson (Chemistry), 1971
B.S.; M.S.; Ph.D., Indiana University, 1968
Schnitzlein, Harold N., Professor (Anatomy), 1973
A.B.; M.S., Ph.D., St. Louis University, 1954
Schroen, DOUGLAS D., Associate Professor (Internal Medicine), 1981
B.A.; M.D., Duke University, 1974
Schonfeld, Lawrence I., Associate Professor-Assistant Chairperson, (Aging and Mental Health, FMHI), 1980
B.A.; M.A.; Ph.D., University of South Florida, 1981
Schonwetter, RONALD S., Assistant Professor (Medicine), 1989
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Schoppman, JOHN D., Assistant In Research (Obstetrics and Gynecology), 1987
B.A., Marquette University, 1977
Schroeder, Harold M., Professor - Director (Management), 1973
B.A.; M.A., Ph.D., Ohio State University, 1954
Schroer, Kenneth R., Associate Professor (Pathology), 1988
M.D., Washington University, St. Louis, 1973
Schurr, Sandra, Coordinator-Associate Professor (Education), 1988
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Schwable, Conrad A., Visiting Lecturer (GraphicsStudio), 1990
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B.S., M.S., North Dakota State University, 1989
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B.A.; M.B.A.; Ph.D., University of Oregon, 1975
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B.A.; M.S.; Ph.D., University of Texas At Austin, 1984
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Scott, Linus A., Professor (Energy Conversion and Mechanical Design), 1964
B.S.M.E., M.S.E.; Ph.D., Case Institute of Technology, 1960, P.E.
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Scudder, PAUL H., Associate Professor (Natural Sciences), New College of USF, 1978
B.S.; Ph.D., University of Wisconsin, 1977
Seal, ALAN M., Associate Professor (Public Health), 1987
B.S.; M.S.; Ph.D., Purdue University, 1971
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B.S., University of South Florida, 1987
Seleznick, Mitchell J., Assistant Professor (Internal Medicine), 1996
B.S.; M.D., State University of New York Downstate Medical Center, 1979
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Sellers, Christine S., Assistant Professor (Criminology), 1990
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Shannon, Robert F., Associate Professor (Economics), 1968
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Shannon, Roger, Professor (Philosophy), 1974
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Shapiro, Arthur S., Professor (Educational Leadership and Higher Education), 1982
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Shatatoff-Solc, Helaine, Assistant In Research (Diabetes Center), 1981
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WILLIAMS, JOSEPH F., Associate Professor (Pharmacology - Therapeutics), 1972
B.A.; Ph.D., University of Utah, 1970

WILLIAMS, KENNETH D., Academic Administrator (Engineering), 1986
B.S.; M.M., University of South Florida, 1985

WILLIAMS, MARVIN T., Associate Professor (Biochemistry), 1978
B.S.; 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
YELTON, SUSAN W., Visiting Assistant Professor-Program Director, (Epidemiology and Policy Analysis, FMHI), 1987
B.A.; M.S.W., Florida State University, 1972
YING, SHUH-JING, Professor (Mechanical Engineering), 1978
B.S.; M.S.; Ph.D., Harvard University, 1965, P.E.
YODER, JOSEPH W., Associate In (D.A.R.P.A., Engineering), 1990
B.S.; M.S., University of Michigan, 1982
YOCU, YUNCHENG, Assistant Professor (Mathematics), 1990
B.S.; M.S.; Ph.D., University of Minnesota, 1988
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B.S.; Ph.D., University of Texas, Austin, 1965
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YOUNG, JANE F., Associate Professor (Professional Physical Education, Education), 1970
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ZBAR, FLORA J., Assistant Professor (English), 1965
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B.S., Ph.D., University of South Florida, 1987
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ZOBLE, ROBERT G., Assistant Professor (Internal Medicine), 1983
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ZORITY, JOZSEF, Research Associate (Medicine), 1989
M.D., Pecs, Hungary, 1977
ZORN, NANCY E., Assistant Professor (Pharmacology and Therapeutics), 1988
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ZYLSTRA, SAPE A., Professor (Humanities), 1969
B.A.; B.D.; Ph.D., Emory University, 1969

YEO, TIMOTHY R., Assistant Professor (Medicine), 1989
B.S., M.D., University of Wisconsin, 1982
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<th>Name</th>
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<td>ABBEY, WALTER R.</td>
<td>Lecturer (Engineering), 1968-1980</td>
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<td>ABRAMS, JACQUES</td>
<td>Professor Emeritus (Music), 1963-1985</td>
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<td>ADAMS, PATRICIA W.</td>
<td>Counselor and Adviser (Academic Services, Undergraduate Studies), 1965-1983</td>
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<td>AGENS, FREDERIC F.</td>
<td>Deceased, Lecturer (Physical Science), 1960-1971</td>
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<td>AGENS, JEANETTE F.</td>
<td>Assistant Professor (Education), 1963-1972</td>
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<td>ALEXANDER, LUELLA K.</td>
<td>Lecturer (Sociology), 1972-1987</td>
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<td>ALLER, EDMUND E.</td>
<td>Associate Professor (Interdisciplinary Social Science), 1964-1981</td>
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<td>ALLEN, JOHN S. (Deceased), President Emeritus, 1957-1970</td>
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<td>ANDERSON, CELIA L.</td>
<td>Assistant Professor (Education), 1967-1976</td>
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<td>ANDERSON, EVERETT S.</td>
<td>(Deceased), Professor (Music), 1963-1982</td>
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<td>ANDERSON, LOUIS V.</td>
<td>Associate Professor (Psychological and Social Foundations Education), 1983-1980</td>
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<td>APPLEGATE, MINERVA I.</td>
<td>Professor (Nursing), 1978-1989</td>
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<td>ASTFORD, THEODORE</td>
<td>(Deceased), Professor Emeritus (Chemistry), Dean Emeritus (Natural Sciences), 1960-1981</td>
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<td>AULETA, MICHAEL S.</td>
<td>Professor (Education), 1967-1973</td>
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<td>AUSTIN, MARTHA L.</td>
<td>Professor Emerita (Reading Education), 1963-1980</td>
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<td>BAILIE, OSCAR W.</td>
<td>Professor (Visual Arts), 1969-1985</td>
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<td>BATTLE, JEAN A.</td>
<td>Professor (Psychological and Social Foundations Education), 1959-1984</td>
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<td>BEASLEY, W. WAYNE</td>
<td>Professor (Educational Leadership Education), 1969-1985</td>
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<td>BEAUCHAMP, GEORGE E.</td>
<td>Associate Professor (English), 1960-1971</td>
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<td>Lecturer (Interdisciplinary Social Science), 1969-1982</td>
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<td>Associate Professor (Nursing), 1977-1989</td>
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<td>BILLINGSLEY, EDWARD D.</td>
<td>Associate Professor (History), 1967-1977</td>
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<td>BLOMQUIST, ALLEN J.</td>
<td>Associate Professor (Psychology), 1972-1985</td>
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<td>ST. Petersburg Campus</td>
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<td>BORDEN, ARTHUR R.</td>
<td>Professor Emeritus (English Literature), New College of USF, 1975-1982 Sarasota Campus</td>
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<td>BOTT, WILLIAM K.</td>
<td>Professor (Counselor Education), 1960-1990</td>
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<td>BOYD, HERBERT F.</td>
<td>Professor (Education), Sarasota Campus, 1965-1988</td>
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<td>BRYLY, HENRY G.</td>
<td>Associate Professor (Adult and Vocational Education), 1969-1984</td>
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<td>BREITER, BERNARD</td>
<td>Assistant Director-Program Director (Family Medicine), 1977-1985</td>
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<td>BRIGGS, JOHN C.</td>
<td>Professor (Marine Science), 1964-1985</td>
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<td>BRIGHTWELL, Ruth G.</td>
<td>Counselor/Advisor (Education), 1969-1998</td>
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<td>BRITTON, JACK R.</td>
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<td>BRYANT, HAYDEN C., Jr.</td>
<td>Associate Professor (Art &amp; Music Education), 1987-1985</td>
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<td>Associate Professor (Measurement and Research Education), 1965-1985</td>
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<td>CARR, ROBERT S.</td>
<td>Visiting Lecturer (Mass Communications), 1968-1974</td>
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<td>CATLIN, ROBERT A.</td>
<td>Associate Professor (Political Science), 1977-1983</td>
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<td>CECONI, ISABELLE F.</td>
<td>Lecturer Emerita (English), 1960-1984</td>
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<td>(Deceased), Professor Emeritus (Physical Science), 1960-1969</td>
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<td>CLINE, RALPH</td>
<td>Associate Professor (Exceptional Child Education), 1971-1984 St. Petersburg Campus</td>
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<td>Professor Emeritus (Finance), 1971-1975</td>
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<td>CLOWTH, W. LYNNDON</td>
<td>Professor Emeritus (Humanities), New College of USF, 1965-1982</td>
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<td>COOPER, RUSSELL M.</td>
<td>(Deceased), Dean Emeritus (Liberal Arts), Professor (Interdisciplinary Social Science), 1959-1975</td>
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<td>Dean Emeritus - Professor Emeritus (Fine Arts), 1961-1982</td>
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<td>Professor Emerita (Physical Education, Education), 1961-1979</td>
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<td>DANENBURG, WILLIAM P.</td>
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<td>Lecturer (Mass Communications), 1972-1980</td>
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<td>Assistant Professor (Economics), 1966-1984</td>
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<td>Professor Emeritus (English), 1960-1983</td>
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<td>DEAN, HARRIS W.</td>
<td>Vice President Emeritus (Academic Affairs), 1961-1971</td>
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<td>DEY, WILLIAM A., Jr.</td>
<td>Associate Professor (Accounting), 1960-1973</td>
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<td>DICK, ANNAMARY</td>
<td>Associate Professor Emerita (Music Arts), 1969-1983</td>
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<td>DONALDSON, MERLE R.</td>
<td>Professor (Electrical Engineering), 1964-1985</td>
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<td>Lecturer (Accounting), 1982-1989</td>
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<td>Professor (Industrial and Management Systems Engineering), 1970-1983</td>
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<td>Professor (Nursing), 1978-1989</td>
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<td>Professor Emeritus (Industrial Systems Engineering), 1986-1977</td>
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<td>Associate Professor (Childhood and Language Arts Education), 1984-1990</td>
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<td>Associate Professor (Chemistry), 1960-1981</td>
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<td>Lecturer (Accounting), 1970-1981 St. Petersburg Campus</td>
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<td>Professor (Adult and Vocational Education), 1969-1987</td>
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<td>Lecturer (Childhood and Language Arts Education), 1967-1978</td>
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<td>EBERLY, DAVID A.</td>
<td>Associate Instructor (FMH), 1972-1987</td>
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<td>ERVIN, DONALD W.</td>
<td>(Deceased), - Assistant Director (Sponsored Research), 1973-1983</td>
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<td>FERNEULIUS, W. CONARD</td>
<td>Distinguished Professor Emeritus (Chemistry), 1970-1975</td>
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<td>FORMAN, GUY</td>
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<td>FOUTZ, LUCILLE C.</td>
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<td>FRENCH, SIDNEY J.</td>
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<td>FUSON, ROBERT H.</td>
<td>Professor Emeritus (Geography), 1960-1988</td>
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<td>PUTHEY, DALE E.</td>
<td>Lecturer (Marketing), 1969-1984</td>
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<td>GARRELS, ROBERT M.</td>
<td>Professor Emeritus (Marine Science), 1979-1988 St. Petersburg Campus</td>
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<td>GATES, JEAN K.</td>
<td>Professor Emeritus (Library, Media and Information Studies, Education), 1968-1988</td>
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<td>GESSMAN, ALBERT M.</td>
<td>(Deceased), Professor (Religious Studies), 1961-1985</td>
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<td>GHIOITTO, JAMES L.</td>
<td>Assistant Professor (Mass Communications), 1981-1985</td>
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<td>GILMORE, ALDEN S.</td>
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<td>GLENNISSON, EMILE G.</td>
<td>(Deceased), Associate Professor Emerita (Foreign Languages), 1967-1977</td>
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<td>GOLING, LOIS A.</td>
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<td>GONZALEZ, JUAN O.</td>
<td>(Deceased), Professor (Mechanical Engineering), 1965-1983</td>
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<td>GOWEN, HOWARD B.</td>
<td>Associate Professor (Humanities), 1963-1984</td>
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<td>GRISCTI, WALTER E.</td>
<td>Professor Emeritus (Mass Communications), 1967-1983</td>
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GROSS, PINCUS, Associate Professor (Rehabilitation Counseling), 1971-1987

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

HARKNESS, DONALD R., Professor (American Studies), 1960-1989

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IORIO, JOHN J., Professor (English), 1963-1988

JAESCHKE, DONALD J., Associate Professor (Adult and Vocational Education), 1983-1979

JAMES, ROBERT M., Assistant Professor (Economics), 1967-1979

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

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

KASAN, E. LEE, Lecturer (Communication Sciences and Disorders), 1967-1990

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KELLER, WALTER D., Professor (Geology), 1970-1973

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KINCAID, GEORGE H., Associate Professor (Psychological and Social Foundations, Education), 1967-1998

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

*LAKELA, OLGA (Deceased), Research Associate (Botany), 1960-1970

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MC LEAN, EDWARD F. Professor (Languages), 1960-1990

MACKAY, E. MAXINE, Professor Emerita (Humanities), 1961-1980

MANDLOW, MARTHA, Counselor/Advisor (Business), 1972-1989

MANKER, CHARLES C., JR. (Deceased), Professor (Psychological and Social Foundations), 1968-1984

MARIN, GERALD S., Instructor (Student Personnel Office, Education), 1969-1985

MAYBURY, P. CALVIN, Professor (Chemistry), 1961-1987

MERRIAM, HARLAND G., Professor (Childhood and Language Arts Education), 1969-1981

MERRIAM, KEMP W., Professor Emeritus (Accounting), 1967-1982

*M. MEYER, HERBERT N., Professor Emeritus (Industrial/Organizational Psychology), 1973-1985

MEYERIECKS, ANDREW J., Professor (Biology), 1981-1985

MITCHELL, RICHARD W., Associate Professor (Physics), 1982-1988

*MONLEY, LAURENCE E. (Deceased), Professor (Mathematics Education), 1980-1984

MURPHY, ROBERT J., Associate Professor (Economics), 1966-1984

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NEUBERGER, HANS H., Professor Emeritus (Geography), 1971-1974

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O'HARA, ROBERT, Professor Emeritus (Languages), 1961-1988

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OLSEN, NORMAN L., Professor (Physics), 1969-1985

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PALMER, ROBERT E., Sr., Associate Professor (Adult and Vocational Education), 1970-1985

PARKER, JOHN W., JR. (Deceased), Professor (English), 1963-1985

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PATTERSON, GERALD E., Associate Professor (Adult and Vocational Education), 1977-1988

PEARCEY, WALTER E. JR., Instructor (Childhood and Language Arts Education), 1970-1980

PIERCE, CARMEL J., Counselor/Advisor (Student Personnel Advising, Education), St. Petersburg Campus, 1970-1985

POPE, JAMES S., Lecturer (Education), 1969-1976

PRATHER, SAM, Associate Professor (Elective Physical Education), 1962-1983

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PRESCOTT, GERALD R., Associate Professor (Music Education), 1967-1972

RACKOW, JEANNE, Associate Professor (Nursing), 1973-1987

RAGAN, WENDELL J., Professor (Geology), 1980-1987

RANG, JAMES D., JR. (Deceased), Professor Emeritus (Biology), Dean Emeritus (Natural Sciences), 1959-1983

REILLY, J. TIM., Associate Professor (Criminology), 1965-1989, St. Petersburg Campus

RICKER, LAWRENCE H., Professor (Communication Sciences and Disorders), 1966-1987

RIBEY, DONALD H., Professor (Energy Conversion Engineering), 1967-1980

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ROSS, VIVIAN M., Professor (Nursing), 1977-1990

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SARETT, ALMA J. (Deceased), Professor Emerita (Speech), 1960-1972
SEXTON, IRENE, Associate Professor (Childhood and Language Arts Education), 1965-1981
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_TREE, ROBERT L., Professor (Childhood and Language Arts Education), 1960-1981
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SHERMAN, JAMES J., Professor (Management), 1967-1984
SHERMAN, ROGER T., Professor (Surgery), 1972-1982
SILVER, JAMES W. (Deceased), Professor Emeritus (History), 1969-1979
SMITH, ALICE G., Professor Emerita (Library, Media and Information Studies, Education), 1965-1985
SMITH, B. OTHANEL, Professor Emeritus (Business), 1969-1975
SMITH, CHARLES T., Associate Professor (Finance), 1969-1975
SMITH, DONN L., Dean Emeritus (Medicine)-Professor Emeritus (Pharmacology and Comprehensive Medicine), 1969-1985
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SODEMAN, WILLIAM A., Associate Professor (Communication), 1961-1972
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_TREE, EDGAR E., JR., Professor Emeritus (American Studies), 1960-1977
STENIKE, GEORGE C., Associate Professor (Economics), 1971-1983
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STONE, LEO D., Lecturer (Finance), 1974-1981 St. Petersburg Campus
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STUBBLEBINE, ALBERT N., JR., Assistant Professor (Engineering), Coordinator (Cooperative Education Program), 1964-1988
TAYLOR, SPAFFORD C., Associate Professor (Elective Physical Education, Education), 1963-1984
THOMPSON, SHERMAN, Professor Emeritus (Adult and Vocational Education), 1966-1983
TIPTON, HENRY C., Assistant Professor (Biology), 1965-1980
TOOTHMAN, REX C., Associate Professor (Adult and Vocational Education), 1970-1980
TURBEVILLE, JOSEPH E., JR., Lecturer (Physics), 1964-1984
TWIGG, JOHN F. (Deceased), Associate Professor (Engineering), 1964-1981
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URBANEK, RAYMOND A. (Deceased), Professor (Measurement and Research Education), 1961-1981
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WEST, WILLIAM W., Professor (Content Specializations, Education), 1970-1987
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