EGX 573. MECHANICS OF COMPOSITE MATERIALS (3)

EGX 575, 576. FINITE ELEMENT METHODS I, II (3-3)

EGX 610. STRESSED SURFACE STRUCTURES (5)

EGX 611. STRUCTURAL STABILITY (5)

EGX 613. STRUCTURAL OPTIMIZATION (5)
PR: EGX 411, 412. Use of optimization techniques in the design of structures including use of the digital computer as a design aid. Lec.-lab.

EGX 616. ADVANCED STRUCTURAL DESIGN (5)
PR: EGX 412, 414. A study of design of more complicated structural systems such as curved bridges, orthotropic bridges, tall buildings, towers, suspension structures. Lecture.

EGX 620. DISLOCATION STRUCTURES AND PROPERTIES OF ENGINEERING MATERIALS (3)
PR: EGX 402 and EGX 423. Introduction to the separate and combined effects of the primary strengthening mechanisms in materials. Dislocation structures, nucleation and growth phenomena, phase transformations and principles of composite materials. Lecture.

EGX 621. HIGH TEMPERATURE REACTIONS OF ENGINEERING MATERIALS (3)

EGX 622. ADVANCED X-RAY METHODS (4)
PR: CI. X-ray diffraction analytical and experimental studies of defects, texture, residual stress, crystal and polycrystalline aggregates. Lec.-lab.

EGX 630. ADVANCED FLUID MECHANICS I (4)

EGX 631. ADVANCED FLUID MECHANICS II (3)

EGX 635. FREE SURFACE FLOW (4)
PR: EGX 403 or CI. Fundamental and applied aspects of free surface flow, including river hydraulics, canal flow and open channel design. Lecture.

EGX 636. URBAN HYDROLOGY (3)
PR: CI. A study of the quantity and quality problems and solution techniques associated with the subject of urban runoff.

EGX 637. HYDROLOGIC MODELS (4)
A study of the theoretical principles of hydrologic modeling and an examination of various numerical hydrologic models available. Students will be required to develop and apply computer models.

EGX 639. WATER QUALITY FOR ENGINEERS (3)
PR: CI. An introduction to the form, structure and biochemical activities of the important microorganisms which are essential to biological treatment processes for agricultural, domestic and industrial wastewater.

EGX 640. EXPERIMENTAL MECHANICS III (4)

EGX 641. EXPERIMENTAL MECHANICS IV (4)

EGX 642. EXPERIMENTAL MECHANICS V (4)

EGX 643. EXPERIMENTAL MECHANICS VI (4)

EGX 650. SOLID MECHANICS V (3)

EGX 651. NONLINEAR DYNAMICS (3)

EGX 660, 661. HYDROSPACE ENGINEERING I, II (3, 3)
PR: CI. Advanced analysis of structural, material and fluid systems for marine environment, including underwater acoustics. Lecture.

EGX 662. COASTAL AND ESTUARY MODELING (3)
PR: CI. Modeling of coastal and estuary systems, currents, tide heights, sediment transport, erosion, data collection, temperature distribution, sources and sinks. Special emphasis on Florida. Lecture.

EGX 670. CONTINUUM MECHANICS III (3)
PR: CI. Theory of Plasticity. Initial and subsequent yield surfaces, incremental and deformation theories, flow theories; problems in ideal plasticity, strain hardening and slip line fields. Lecture.

EGX 671. CONTINUUM MECHANICS IV (3)

EGX 672. NUMERICAL METHODS IN ENGINEERING ANALYSIS (3)
PR: CI. Application of computational and mathematical techniques and principles to advanced engineering problems concerning structures, materials, and fluids. Lecture.

EGX 673. ADVANCED ELASTIC ANALYSIS (3)
PR: CI. Contemporary elasticity theory and applications. Lecture.

EGX 674. APPLIED TENSOR ANALYSIS (3)
PR: CI. Tensor analysis applied to structures, materials, fluids. Lecture.

EGX 675. WATER RESOURCES SYSTEMS I (3)
PR: EGX 436. The planning, design, and operation of water resources systems by the use of systems analysis and operations research techniques. Lecture.

EGX 676. WATER RESOURCES SYSTEMS II (3)
PR: EGX 675. The planning, design and operation of water resource systems by the use of systems analysis and operations research techniques. Lecture.

EGX 677. URBAN WATER TREATMENT THEORY AND DESIGN (4)
PR: EGX 435 or CI. A study of the theory of water treatment and the relation of theory to analysis and design practice. Emphasis is given to unit processes. The seminar is devoted to the design and analysis of specific water treatment facilities.

EGX 678. URBAN WASTEWATER TREATMENT THEORY AND DESIGN (4)
PR: CI. A study of the theory of wastewater treatment and the
relation of theory to analysis and design practice. Emphasis is
given to unit processes. The seminar is devoted to the design
and analysis of specific wastewater treatment works.

EGX 679. ENVIRONMENTAL PLANNING (4)
PR: EGX 436 or Cl. Study of the comprehensive application
of environmental control and protection techniques to the
problems of environmental quality. Important aspects include
air and water quality, amenities, waste management, land use
practice, control of noise, and natural ecological factors. A
design or analysis problem is an integral part of the course.

EGX 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master’s level. Repeatable. (S/U only.)

EGX 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate
teaching assistants. Variable credit, repeatable. Limited to a
cumulative total of 5 credits per student. (S/U only.)

EGX 695. GRADUATE RESEARCH METHODS (1-5)
Special course to be used primarily for the training of graduate
research assistants. Variable credit, repeatable. Limited to a
cumulative total of 5 credits per student. (S/U only.)

EGX 699. THESIS: MASTER’S (credit varies)
Repeatable. (S/U only.)

EGX 781. DIRECTED RESEARCH (credit varies)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

EGX 799. DISSERTATION: DOCTORAL (credit varies)
PR: Must be admitted to Doctoral Candidacy. Repeatable.
(S/U only.)

Computer Service Courses (ESC)
ESC 301. INTRODUCTION TO COMPUTERS I (3)
Basic principles of computer operation, program structure,
machine and assembly language.

ESC 302. COMPUTER PROGRAMMING-FORTRAN (3)
PR: ESC 301. Programming of scientifically oriented problems
using FORTRAN. Introduction to the use of the systems
library.

ESC 303. COMPUTER PROGRAMMING-COBOL I (3)
PR: ESC 301. Introduction of computer systems and
commercially oriented languages. Analysis of COBOL lan-
guage elements and divisions. Development of file structures
and application of the COBOL language.

ESC 304. COMPUTER PROGRAMMING-COBOL II (3)
PR: ESC 303. Advanced applications of COBOL. Develop-
ment of matrix structures, subscripting and data manipulating
techniques as used in comprehensive data processing prob-
lems.

ESC 307. COMPUTER PROGRAMMING-RPG (3)
PR: ESC 301. Analysis, design and implementation of data
processing systems using RPG.

ESC 308. COMPUTER PROGRAMMING-PL/I (3)
PR: ESC 301. Programming of both business and scientifically
oriented problems. Manipulation of data records. Control
sequencing and transmission of data.

ESC 309. COMPUTER PROGRAMMING-GPSS-
-SIMSCRIPT (3)
PR: ESC 302 or equivalent. SIMSCRIPT and GPSS will be
used to implement and analyze general types of simulation.

ESC 310. INTRODUCTION TO COMPUTERS II (3)
PR: ESC 301, 302. Component parts of a computer system.
Internal representation and manipulation of data and program
instructions. Algorithms and flowcharting. Programming
languages and systems. (No credit for engineering majors.)

ESC 311. INTRODUCTION TO COMPUTERS III (3)
PR: ESC 310. Continuation of the material in ESC 310. (No
credit for engineering majors.)

ESC 312. INTRODUCTION TO COMPUTERS IV (3)
PR: ESC 311. Continuation of the material in ESC 311. (No
credit for engineering majors.)

ESC 501. COMPUTER SYSTEMS (3)
PR: ESC 302 or equivalent. Study of computer systems
components, I/O devices, memory devices, theory of com-
puter operation. (Not available to students who have taken
ESC 310, 311 and 312.)

ESC 502, 503. COMPUTER LANGUAGES AND
COMPUTATION I, II (3, 3)
PR: ESC 501. Study of principles of machine, assembly and
compiled languages. Programming applications.

ESC 551. COMPUTERS FOR RESEARCH I (3)
PR: Graduate Student Status. The use of FORTRAN IV and
WATFIV languages in solving research problems.

ESC 651. COMPUTERS FOR RESEARCH II (3)
PR: ESC 551 or equivalent. Continuation of the material
covered in ESC 551. Use of computer library programs and
plotting equipment.

Engineering Technology (ETK)
ETK 401. INDUSTRIAL SYSTEMS (3)
Introduction to organizational planning and control functions
in industrial systems.

ETK 421. PRINCIPLES OF INDUSTRIAL
OPERATIONS I (3)
PR: ETK classification or CC. Techniques of work meas-
urement and methods design.

ETK 422. PRINCIPLES OF INDUSTRIAL
OPERATIONS II (3)
PR: ETK classification or CC. Techniques of production
control and inventory control.

ETK 423. PRINCIPLES OF INDUSTRIAL
OPERATIONS III (3)
PR: ETK 421, ETK 422. Techniques of plant location and
layout.

ETK 431. FUNDAMENTAL TOPICS IN POWER
GENERATION (3)
PR: Enrollment in Engineering Technology Program or Cl.
Introduction to thermodynamics, forms of energy and energy
equations, processes of a perfect gas, thermodynamic cycles,
properties of steam, Rankine Cycle, equipment survey, heat
transfer, fluid flow, combustion and mixtures of gases and
vapors.

ETK 441. FUNDAMENTAL TOPICS IN AIR
CONDITIONING (3)
PR: Enrollment in Engineering Technology Program or Cl.
Introduction to thermodynamics, forms of energy and energy
equations, processes of a perfect gas, thermodynamic cycles,
refrigeration cycles, properties of refrigerants, heat transfer
and fluid flow, mixtures of gases and vapors, preliminary
psychrometrics and analysis of motors.

ETK 443. AIR CONDITIONING SYSTEMS
DESIGN I (3)
PR: ETK 441 or Cl. Design of packaged air conditioning
systems, system selection, equipment selection and installa-
tion, ductwork design and air distribution, use of outside air
with problems in bypassing and recirculation.

ETK 444. AIR CONDITIONING SYSTEMS DESIGN II (3)
PR: ETK 443 or Cl. Heating and air conditioning load
calculations, design of applied air conditioning systems,
advanced load calculations, system selection, chilled water
systems, multizone systems, equipment survey: coils, chillers,
fans and pumps, associated electrical equipment, controls,
humidification, dehumidification, and installation.

ETK 445. AIR CONDITIONING DESIGN SEMINAR (3)
PR: ETK 444. Consideration of the total air conditioning
system from the view of design engineer, client, and
contractor. Specification writing, load calculation, system
selection and installation, and cost criteria.
ETK 451. FUNDAMENTAL TOPICS IN CONSTRUCTION TECHNOLOGY I
PR: MTH 213 or equivalent. Introduction to the principles of statics, equilibrium of rigid bodies, friction, strength of materials and application of materials and their properties in design of structures.

ETK 452. FUNDAMENTAL TOPICS I CONSTRUCTION TECHNOLOGY II
PR: ETK 451. Selection and application of materials in construction technology with associated consideration of material properties, change of properties and environmental effects.

ETK 453. CLIMATE CONTROL IN BUILDINGS
PR: Enrollment in Engineering Technology Program or CI. Heat and moisture in the atmosphere and human comfort, heat loads, heat sources, heat and ventilation distribution in spaces, air conditioning and air distribution, control of temperature and humidity.

ETK 454. ACOUSTICS IN CONSTRUCTION TECHNOLOGY
Fundamentals of architectural acoustics, behavior of sound in closed spaces, noise control, and noise reduction.

ETK 455. SANITARY ENGINEERING IN CONSTRUCTION TECHNOLOGY
Water, water systems, and water supply. Sanitation and waste disposal, piping systems for hot and cold water, plumbing for sewage disposal and storm drainage.

ETK 480. SPECIAL TOPICS IN TECHNOLOGY I
PR: CC.

ETK 481. SPECIAL TOPICS IN TECHNOLOGY II
PR: CC.

ETK 482. SPECIAL TOPICS IN TECHNOLOGY III
PR: CC.

ETK 522. INTRODUCTION TO ELECTRONICS FOR SCIENTISTS
Basic electronic devices and instruments, dc and ac circuits, diodes and power supplies, transistor circuits, integrated circuits, laboratory instruments, transducers and special instruments. (2 three hour lecture lab, 1 two hour problem discussion). No credit toward graduate degree requirements.

ETK 601. SPECIAL TECHNICAL TOPICS I
PR: CC.

ETK 602. SPECIAL TECHNICAL TOPICS II
PR: CC.

ETK 603. SPECIAL TECHNICAL TOPICS III
PR: CC.

ENGLISH (ENG)


LOWER LEVEL COURSES

ENG 098. DEVELOPMENTAL ENGLISH
Instruction and practice in the review of the fundamentals of English. Includes developmental work in English as applied in writing, with emphasis on grammar, punctuation, mechanics of expression and sentence structure. Students completing this course will by-pass ENG 101.

ENG 099. DEVELOPMENTAL READING
Designed to help students develop maximum reading efficiency, the course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehensive skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.

ENG 100. ENGLISH AS A SECOND LANGUAGE-COMPOSITION
Practice and drill in basic English sentence patterns, with emphasis on writing, punctuation, vocabulary, and idiom. The course is designed as a service course for foreign students enrolled in the university. Some previous study of English is a prerequisite. (Formerly CBS 100.)

ENG 101, 102, 103. FRESHMAN ENGLISH
Instruction and practice in the skills of writing and reading. Credit for ENG 101, 102, 103 may be counted toward the English major. (Formerly CBS 101, 102, 103.)

ENG 200. SPEED READING DEVELOPMENT
A course designed to develop speed reading techniques on various levels of difficulty. Emphasis is placed on comprehension via numerous practice drills. Will not be counted toward the English major. (S/U only.) (Formerly ENG 131.)

ENG 211. CURRENT NOVELS
A study of major British and American novels since WW II; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major. (Formerly ENG 301.)

ENG 212. CURRENT DRAMA
A study of recent forms and themes in drama from Theatre of the Absurd to the present, including works of such playwrights as Beckett, Ionesco, Genet, Pinter, and Albee. Not be counted toward the English major. (Formerly ENG 302.)

ENG 213. CURRENT SHORT FICTION
Traditional and experimental short stories of this generation; such writers as Updike, Malamud, O'Connor, Roth, Barth, Ionesco, and Barthelme. Will not be counted toward the English major. (Formerly ENG 303.)

ENG 214. INTRODUCTION TO LITERATURE: GENERAL
The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for intelligent enjoyment. Will not be counted toward the English major. (Formerly ENG 314.)

ENG 215. INTRODUCTION TO LITERATURE: FICTION
An examination of the short story and the novel as literary forms; not limited to any historical period. Will not be counted toward the English major. (Formerly ENG 315.)

ENG 216. INTRODUCTION TO LITERATURE: POETRY
How poems work. Stress on the understanding and enjoyment of poems with attention to new forms and techniques; not restricted to any specific period. Will not be counted toward the English major except for those students following the Creative Writing: Poetry option. (Formerly ENG 316.)
ENG 217. INTRODUCTION TO LITERATURE: DRAMA (5)
A study of the major forms of drama—tragedy, comedy, melodrama, farce; including the works of such playwrights as Sophocles, Shakespeare, Moliere, Ibsen, Chekhov, and Shaw. Will not be counted toward the English major. (Formerly ENG 317.)

**UPPER LEVEL COURSES**

ENG 300. HIGHLIGHTS OF BRITISH LITERATURE TO 1750 (5)
An introductory course consisting of selected highlights of English literature from the Middle Ages to 1750. (Formerly ENG 311.)

ENG 301. HIGHLIGHTS OF BRITISH LITERATURE 1750 TO 1914 (5)
An introductory course consisting of selected highlights of English literature from 1750 to 1945. (Formerly ENG 311.)

ENG 302. HIGHLIGHTS OF AMERICAN LITERATURE TO 1945 (5)
An introductory course consisting of selected highlights of American literature from the beginnings to 1945. (Formerly ENG 312.)

ENG 306. AMERICAN POPULAR LITERATURE: THE ROARING TWENTIES (5)
An exploration of the interaction of film, literature, and the popular arts in the Roaring Twenties of the U.S. Traces the movement of American culture from Main Street and Spoon River to the Modern Urban Metropolis. Studies of such figures as Fitzgerald, Cummings, Hemingway, Stein, E. A. Robinson, Sandburg, Chaplin, and Bessie Smith.

ENG 307. TWENTIETH CENTURY DRAMA AND THE FILM (5)
A study of six to eight major twentieth century plays by such playwrights as Shaw, Beckett, Williams, Chekhov, Sartre, O'Neill, Miller, Hamsbury, and Ionesco, and the translation of these plays into the medium of the film.

ENG 308. MODERN LITERATURE, FILM, AND THE POPULAR ARTS (5)
Exploration into the nature and function of modern literature, film, and some of the popular arts like fantasy, westerns, science fiction, war stories, and detective stories. The works of such writers as Vonnegut, Tolkein, Thurber, Heller, Barthelme, Berger, and Kesey are examined.

ENG 309. SHAKESPEARE: TEXTS AND FILMS (5)
An introduction to the art of William Shakespeare through a comparative analysis of four of his most famous dramas and modern film adaptations of them: Hamlet, King Lear, Romeo and Juliet and Henry V.

ENG 310. SHAKESPEARE I (5)
Reading of eight to ten representative plays, with special attention to developing the students' ability to read and interpret the text. (Formerly ENG 411.)

ENG 311. EARLY ENGLISH LITERATURE (5)
A survey of representative works of poetry, prose, and drama of the Old English, Middle England, and early Renaissance to 1557, including Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, among others. (Formerly ENG 201.)

ENG 312. LITERATURE OF THE ENGLISH RENAISSANCE (5)
A survey of representative works of poetry, prose, and drama of the English Renaissance, from approximately 1558 to 1649, including Sidney and Spenser to Donne and Marvell, with special attention to the emergence of the New Poetry. (Formerly ENG 201.)

ENG 313. THE RISE AND DECLINE OF NEOCLASSICAL LITERATURE (5)
A survey of Neoclassical English literature beginning with Marvell and the late work of Milton, and ending with the late Neoclassicism of Johnson, Boswell, and Goldsmith. (Formerly ENG 202.)

ENG 314. THE ROMANTIC WRITERS (5)
The poetry and poetics of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats; with attention to the lesser figures, the eighteenth century background, and the continuing importance of romantic thinking in contemporary affairs and letters. (Formerly ENG 202, 203.)

ENG 315. VICTORIAN AND EDWARDIAN LITERATURE (5)
A survey of representative figures of the Victorian and Edwardian periods, ending in 1914, including poetry, prose, and drama of such authors as Carlyle, Tennyson, Browning, Swinburne, Rossetti, Dickens, Wilde. (Formerly ENG 203.)

ENG 316. MODERN BRITISH LITERATURE FROM 1914 TO 1945 (5)
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, among others. (Formerly ENG 307.)

ENG 317. CONTEMPORARY BRITISH AND AMERICAN LITERATURE FROM 1945 TO THE PRESENT (5)
An introduction to the fiction, poetry, and drama of such writers as Beckett, Ginsberg, Nabokov, Roethke, Plath, Vonnegut, Weyl, Malamud, Durrell, Mailer, MacLeish, and others.

ENG 330. ROMANTIC AMERICAN LITERATURE TO 1860 (5)
A study of the thought and art in poetry and prose of representative writers of the American Romantic period, with emphasis upon Emerson, Thoreau, Poe, Hawthorne, and Melville. (Formerly ENG 305.)

ENG 331. AMERICAN LITERATURE FROM 1860 TO 1912 (5)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson. (Formerly ENG 306.)

ENG 332. MODERN AMERICAN LITERATURE FROM 1912 TO 1945 (5)
A study of poetry, drama, and fiction by such writers as Pound, Fitzgerald, Hemingway, Faulkner, Cummings, Williams, Anderson, Lewis, Steinbeck, Wright, Wolfe, West, Stevens, Henry Miller, and others. (Formerly ENG 307.)

ENG 340. LITERATURE OF THE WESTERN WORLD: ANCIENT (5)
The Bible, the best modern English translations of Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, or others among the Greeks; of Virgil, Ovid, Juvenal, Sappho, Petronius or others among the Romans. (Formerly ENG 335.)

ENG 341. LITERATURE OF THE WESTERN WORLD: MEDIEVAL, RENAISSANCE, AND NEOCLASSICAL (5)
A study in English of such writers as Dante, Boccaccio, Machiavelli, Rabelais, Montaigne, Moliere, among others, and of their cultural and intellectual settings. (Formerly ENG 335, 336.)

ENG 342. LITERATURE OF THE WESTERN WORLD: MODERN (5)
A study in English of Voltaire, Rousseau, Goethe, Baudelaire, Tolstoy, Mann, Lorca, Brecht, or others; the great literary traditions of Romanticism, Naturalism, and Symbolism.

ENG 343. MODERN EUROPEAN NOVEL (5)
A study of the Modern European novel in translation as it developed from the 19th century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn. (Formerly ENG 437.)

ENG 345. MODERN SHORT NOVEL (5)
A study of the novella from the 19th century to the present. Writers to be included will be: Flaubert, Conrad, Lawrence, Mann, Kafka, Bellow, Roth, and others.
ENG 350. ADVANCED EXPOSITORY WRITING (5)
A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.

ENG 351. NARRATION AND DESCRIPTION (5)
Writing short papers in narration and description, and the personal essay; analyzing selected essays to heighten sensitivity to language. (Formerly ENG 321.)

ENG 352. THE WRITING OF POETRY (5)
Introduction to the writing of poetry. This course will introduce the student to a variety of forms and techniques in the writing of poetry.

ENG 353. IMAGINATIVE WRITING: FICTION (5)
PR: ENG 351. Introduction to the writing of fiction. This course will introduce students to the variety of forms and techniques in the writing of imaginative prose.

ENG 370. BLACK LITERATURE (5)
A study of Black American literature from the nineteenth-century to the present, including the works of such writers as W. E. B. Du Bois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikke Giovanni.

ENG 372. AMERICAN INDIAN LITERATURE (5)
A survey of native American Literature from pre-Columbian religious and folk literature to the current voices in the pan-Indian movement.

ENG 373. FOLKLORE AND POPULAR LITERATURE (5)
Literature of fairytales, folksongs, ballads, and blues. Perrault, Grimm, Andersen, and others; traditional British and American ballads and folksongs; modern ballads and blues from folk, country, delta, and big city sources; the songs of Bob Dylan and friends. (Formerly ENG 337.)

ENG 374. FANTASY AND SCIENCE FICTION (5)
A survey of fantasy and science fiction in England and America from Mary Shelley to the present; includes such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others.

ENG 375. LITERATURE AND THE OCCULT (5)
An introduction to the occult tradition as a major ingredient in English, Continental, and American literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present. (Formerly ENG 338.)

ENG 376. THE BIBLE AS LITERATURE (5)
Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics. (Formerly ENG 319.)

ENG 377. RELIGIOUS AND EXISTENTIAL THEMES (5)
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, and others. (Formerly ENG 511.)

ENG 378. SEXUAL POLITICS IN LITERATURE, I (5)
A study of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from Sappho through Shakespeare, with special emphasis on how this early literature has perpetuated cultural myths, rituals, superstitions, and misconceptions about women. (Also offered as WSP 378.)

ENG 379. SEXUAL POLITICS IN LITERATURE, II (5)
A study of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from the 17th century to the present, with special emphasis on women writers and on the emergence of the women's movement. (Also offered as WSP 379.)

ENG 383. SELECTED TOPICS IN ENGLISH STUDIES (1-5)
PR: Sophomore standing. Varying from quarter to quarter, the course examines in depth a predominant literary theme or the work of a select group of writers.

ENG 385. MODERN SATIRE AND INVENTIVE (5)
Explores the artistic nature and variety of satire in the 20th century, a period rich in satiric writing. Selections from Strachey, Waugh, Pound, Lowell, Nabokov, Faulkner, Golding and Grass.

ENG 387. TWENTIETH CENTURY BEST SELLERS (5)
A study of representative best-selling novels in 20th century America; including such critically acclaimed works as Peyton Place, Lady Chatterley's Lover, Exodus, and Catcher in the Rye, which have sold in excess of 5,000,000 copies and have served to portray our changing society and to reveal our changing literary taste.

ENG 389. LITERATURE AND CENSORSHIP (5)
A study of significant works of modern literature which have been suppressed by censorship; focusing on the writing of such prominent literary figures as D. H. Lawrence, Celine, Henry Miller, Allen Ginsberg, William Burroughs, Lenny Bruce, and others.

ENG 391. LITERATURE OF THE GROTESQUE (5)
A conceptual history of the grotesque in literature from Dante's Inferno to the madhouse of Beckett's Watt; including the works of such diverse writers as Goethe, Shakespeare, Poe, Pirandello, O'Neill, Sherwood Anderson, and Carson McCullers.

ENG 392. LITERATURE AND PSYCHOLOGY (5)
A study of conscious and unconscious dynamics of personality as reflected in the works of such writers as Shakespeare, Blake, Dostoevsky, Twain, Melville, and Conrad, with parallel readings in the works of Freud, Jung, and Erich Fromm.

ENG 395. HEROES AND ANTI-HEROES (5)
A study of the patterns in the figure of the hero and the anti-hero to the present time. Readings from then to now include works such as Beowulf, The Iliad, King Lear, Don Quixote (Part I), Don Juan (Canto I), A Farewell to Arms, The Ginger Man, and Catch 22.

ENG 395. THE TALMUD AS LITERATURE (5)
An introduction to the artistic elements of one of the great books of the Jewish religion. Emphasis on stories, fables, legends (Aggahah), but some general background in Talmudic structure and history is also provided. No previous knowledge of Judaism or religious texts is required.

ENG 397. VOCABULARY (3)
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.

ENG 400. OLD ENGLISH LITERATURE (5)
PR: ENG 300 or ENG 311. A study of representative works in translation. (Formerly ENG 500.)

ENG 401. MIDDLE ENGLISH LITERATURE (5)
PR: ENG 300 or ENG 311. A study of representative works of the Middle English period with a consideration of the social and historical backgrounds. (Formerly ENG 502.)

ENG 402. CHAUCER (5)
PR: ENG 300 or ENG 311. An intensive study of The Canterbury Tales and major critical concerns. (Formerly ENG 501.)

ENG 406. SIXTEENTH CENTURY PROSE AND POETRY (5)
PR: ENG 300 or ENG 312. A study of representative prose, including fiction, and the lyric and narrative poetry of Sidney, Spenser, Marlowe, and Shakespeare, together with selected poems of Donne. (Formerly ENG 506, 508.)

ENG 407. SEVENTEENTH CENTURY PROSE AND POETRY (5)
ENG 408. ENGLISH DRAMA FROM THE BEGINNINGS TO 1642
PR: ENG 300 or ENG 312. The emergence of drama in England from its liturgical origins through the mystery and morality plays to its significant achievement in the Renaissance. Excludes Shakespeare; emphasis upon Marlowe, Jonson, Webster, and Middleton. (Formerly ENG 503, 504.)

ENG 409. MILTON
PR: ENG 300 or ENG 312. Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost. (Formerly ENG 507.)

ENG 410. SHAKESPEARE II
PR: ENG 310. Three or four of Shakespeare's greatest dramas seen in depth; the close reading of the text, the controversies of interpretation, and the Elizabethan and Jacobean setting. (Formerly ENG 519, 520.)

ENG 413. RESTORATION AND EIGHTEENTH CENTURY SATIRE
PR: ENG 300 or ENG 313. A study of selected Neoclassical satires, the techniques of their expression, and the historical conflicts out of which they arose. (Formerly ENG 521, 559.)

ENG 414. EIGHTEENTH CENTURY BRITISH NOVEL
PR: ENG 301 or ENG 313. A study of the emergence of modern realistic prose fiction in the eighteenth century, with emphasis on Fielding, Richardson, Smollett, and Sterne. (Formerly ENG 429.)

ENG 418. ROMANTIC LITERATURE: FORM, GENRE, AND ARCHETYPE
PR: ENG 301 or ENG 314. An intensive study of one or more formal types of British literature occurring between 1785 and 1832, such as Romantic Nature Poetry, Romantic Historical Novels and Poems, etc. Specific topics will vary. (Formerly ENG 513.)

ENG 419. ROMANTIC LITERATURE: MAJOR WRITERS
PR: ENG 301 or ENG 314. A concentrated study of two or more representative Romantic writers from among Burns, Blake, Wordsworth, Coleridge, Scott, Austen, Byron, Shelley, Hazlitt, and Keats. (Formerly ENG 513.)

ENG 424. THE POETRY OF THE VICTORIANS
PR: ENG 301 or ENG 315. An intensive study of the works of three or more representative Victorian poets. (Formerly ENG 523.)

ENG 425. NINETEENTH CENTURY BRITISH NOVEL
PR: ENG 301 or ENG 315. A study of such major British novelists as Austen, Scott, Thackeray, Dickens, the Brontes, Eliot, Meredith, and Hardy. (Formerly ENG 430.)

ENG 426. REPRESENTATIVE THEMES IN VICTORIAN LITERATURE
PR: ENG 301 or ENG 315. A study of representative works in Victorian prose, poetry, drama, and fiction, with particular attention to an important unifying theme, idea, or concern. (Formerly ENG 523.)

ENG 430. AMERICAN LITERATURE OF THE COLONIAL-FEDERAL PERIOD
PR: ENG 300, ENG 302, or equivalent. The social, philosophic, and aesthetic foundations of American literature, from the period of early settlement through the writings of Cooper, Irving, and Bryant. (Formerly ENG 305.)

ENG 431. THE AMERICAN NOVEL FROM THE BEGINNINGS TO 1920
PR: ENG 302, ENG 330, or ENG 331. A study of major American novelists through representative novels. Authors studied may include Cooper, Hawthorne, Melville, James Twain, Dreiser, and others. (Formerly ENG 425.)

ENG 432. AMERICAN DRAMA
PR: One course in American Literature. A historical-analytical study of American drama from the 19th century to the present. Included are such playwrights as Boker, Boucicault, Herne, O'Neill, Howard, Rice, Hellman, Williams, Miller, Albee, and Hansberry. (Formerly ENG 426.)

ENG 435. MODERN AMERICAN FICTION FROM 1920 TO 1945

ENG 436. MODERN BRITISH FICTION FROM 1900 TO 1945
PR: ENG 301 or ENG 316. A critical study of British fiction from 1900 to 1945, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Forster, Huxley, Waugh, and others.

ENG 437. CONTEMPORARY AMERICAN FICTION FROM 1945 TO THE PRESENT
PR: One course in American literature. A critical study of American fiction from the war novel to the Absurd. The course will consider the impact of naturalism, science, existentialism, surrealism. Includes such writers as Mailer, Ellison, Donleavy, Nabokov, Bellow, Pynchon, O'Connor, Malamud, and Updike.

ENG 438. CONTEMPORARY BRITISH FICTION FROM 1945 TO THE PRESENT
PR: One course in British literature. A critical study of British fiction since WW II, including a consideration of those forces such as the Angry Young Men, the Absurd, the philosophical novel, and Continental influences. Writers to be considered will be Orwell, Murdoch, Beckett, Burgess, Durrell, Amis, and others. (Formerly ENG 528.)

ENG 441. MODERN BRITISH AND AMERICAN POETRY FROM 1900 TO 1945
PR: One course in British or American literature. Study of selected Modern British and American Poets from Hopkins to Auden, with attention to poetic theory. (Formerly ENG 527.)

ENG 442. CONTEMPORARY BRITISH AND AMERICAN POETRY FROM 1945 TO THE PRESENT
PR: One course in British or American literature. Intensive study of six or seven contemporary poets: Theodore Roethke, Robert Lowell, Allen Ginsberg, Denise Levertov, Sylvia Plath, Edward Field, Bob Dylan, or others. (Formerly ENG 527.)

ENG 445. MODERN DRAMA FROM 1880 TO 1945
PR: One course in British or American literature. A study of major dramatists from the rise of Realism up to the Theatre of the Absurd, including works by Ibsen, Strindberg, Shaw, Chekhov, Pirandello, Brecht, and others. (Formerly ENG 459.)

ENG 446. CONTEMPORARY DRAMA FROM 1945 TO THE PRESENT
PR: One course in British or American literature. A study of major dramatists from the Theatre of the Absurd to the present, including such playwrights as Beckett, Ionesco, Genet, Albee, Pinter, Duerrenmatt, Miller, Williams, and others. (Formerly ENG 459.)

ENG 450. THEORY OF FICTION
PR: 20 hours of literature. Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction. (Formerly ENG 585.)

ENG 451. WORKSHOP IN FICTION
PR: ENG 353. Study and writing of the short story and sections of the novel. Evaluation of student work in conferences, selected readings. May be taken twice for credit. (Formerly ENG 423.)

ENG 452. WORKSHOP IN POETRY
PR: ENG 216 and ENG 352. Self-expression in traditional and contemporary forms. Student-teacher conferences and
ENG 453. LITERARY CRITICISM (5)
PR: 20 hours of literature. A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature. (Formerly ENG 421.)

ENG 475. STRUCTURE OF AMERICAN ENGLISH (5)
PR: ENG 103. An introductory survey of traditional, structural, and generative-transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English in particular. (Formerly ENG 517.)

ENG 476. HISTORY OF THE ENGLISH LANGUAGE (5)
PR: 20 hours of literature. The evolution of language from Anglo-Saxon through Middle English to Modern English. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forces which influenced them; a consideration of how these changes may influence the interpretation of literature. (Formerly ENG 515.)

ENG 477. LINGUISTICS AND LITERATURE (5)
PR: ENG 475 or LIN 301. The application of relevant materials from the fields of comparative and descriptive linguistics to analysis and interpretation of literature—poetry, prose, and drama, with a view to complementing the traditional modes. (Formerly ENG 518.)

ENG 481. INDIVIDUAL RESEARCH (1-5)
PR: 12 hours of literature. Directed study in special projects. Special permission of chairperson required.

ENG 483. SELECTED TOPICS IN ENGLISH STUDIES (1-5)
PR: Sophomore standing. The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be repeated for different topics.

ENG 485. DIRECTED READING (5)
PR: Junior standing. Readings in special topics. (Formerly ENG 585.)

FOR GRADUATE STUDENTS ONLY

ENG 601. PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: COMPOSITION (5)
PR: Graduate standing. An examination of the objectives of freshman English and an investigation of current techniques for achieving those objectives, emphasizing the problems of developing critical reading and the techniques of expository writing at the college level.

ENG 602. PROBLEMS IN THE COLLEGE ENGLISH INSTRUCTION: LITERATURE (5)
PR: Graduate standing. A course that will allow the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and that will teach college English teachers the variety and importance of literary techniques and their relevance to subject matter.

ENG 610. STUDIES IN OLD ENGLISH (5)
PR: Graduate standing. A study of Old English language, prose style, poetry. May be retaken with different subject matter three times.

ENG 616. STUDIES IN MIDDLE ENGLISH (5)
PR: Graduate standing. Selected focused studies in language and in various authors and writings, 1100-1500: Chaucer, the Pearl poet, Everyman, ballads, drama. May be retaken with different subject matter three times.

ENG 620. STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE (5)
PR: Graduate standing. Selected focused studies in 16th-century British literature: Shakespeare, Sidney, Spenser, Marlowe, and others. May be retaken with different subject matter three times.

ENG 625. STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE (5)
PR: Graduate standing. Selected focused studies in British literature, 1600-1660: Bacon, Donne, Jonson, Herbert, Milton, and others. May be retaken with different subject matter three times.

ENG 630. STUDIES IN RESTORATION AND EIGHTEENTH-CENTURY BRITISH LITERATURE (5)
PR: Graduate standing. Selected focused studies in Restoration-Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others. May be retaken with different subject matter three times.

ENG 640. STUDIES OF THE ENGLISH ROMANTIC PERIOD (5)
PR: Graduate standing. A study of pre-Romantic and Romantic prose fiction, nonfiction, and poetry. May be retaken with different subject matter three times.

ENG 645. STUDIES IN VICTORIAN LITERATURE (5)
PR: Graduate standing. A study of Victorian poetry, Victorian fiction, Victorian non-fictional prose, and Victorian drama. May be retaken with different subject matter three times.

ENG 650. STUDIES IN AMERICAN LITERATURE TO 1860 (5)
PR: Graduate standing. Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others. May be retaken with different subject matter three times.

ENG 660. STUDIES IN AMERICAN LITERATURE 1860-1920 (5)
PR: Graduate standing. Selected focused studies in American literature: Whitman, Twain, Howells, James, Crane, Dreiser, and others. May be retaken with different subject matter three times.

ENG 670. STUDIES IN MODERN BRITISH LITERATURE (5)
PR: Graduate standing. A study of Irish and English drama, the modern novel, poetry, criticism, and the short story. May be retaken with different subject matter three times.

ENG 672. STUDIES IN MODERN AMERICAN LITERATURE (5)
PR: Graduate standing. Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Anderson, Wolfe, Cummings, Frost, and Eliot. May be retaken with different subject matter three times.

ENG 675. STUDIES IN CONTEMPORARY LITERATURE (5)
PR: Graduate standing. Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, and Burgess. May be retaken with different subject matter three times.

ENG 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

ENG 683. SELECTED TOPICS IN ENGLISH STUDIES (1-10)
PR: Graduate standing. Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; The Nature of Romanticism and Classicism; and The Nature of Myth, Allegory, and Symbolism. Other topics will be added in accordance with student demand and instructor interest.

ENG 684. STUDIES IN CONTINENTAL LITERATURE (5)
PR: Graduate standing. General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy. May be retaken with different subject matter three times.

ENG 686. STUDIES IN STYLE (5)
(Advanced Composition for Teachers)
ENG 475 (formerly ENG 517) and ENG 476 (formerly ENG 515), or CI. An advanced study of the origin, historical development, and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.

ENG 690. SCHOLARSHIP AND CRITICISM (5)
PR: Graduate standing. Selected focused study of research approaches to English. May be retaken with different subject matter once.

ENG 691. GRADUATE SEMINAR IN ENGLISH (5)
PR: Graduate standing. Selected focused study of research approaches to English. May be retaken with different subject matter to a maximum of ten hours.

ENG 692. BIBLIOGRAPHY FOR STUDIES OF CULTURAL MILIEUS (2)
PR: Graduate standing. Detailed study of bibliographies of cultural milieus, genres, periods, and authors.

ENG 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

ENG 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

FIN 201. PERSONAL FINANCE (5)
Survey of the problems and techniques of family financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints. Not available for credit to upper level students who have been admitted to the College of Business Administration.

FIN 202. INTRODUCTION TO INVESTMENTS (4)
Emphasizes the operations of the security markets in the U.S. and the risks and returns of alternative investment media. Designed for non-business administration students. Not available for credit to upper level students who have been admitted to the College of Business Administration.

FIN 301. PRINCIPLES OF FINANCE (5)
PR: ACC 300 and ECN 201. Examines the process of acquiring, allocating and supervising the use of resources with special emphasis on the tools and instruments for managing the finances of the firm, including solvency, liquidity, and profitability.

FIN 303. PRINCIPLES OF INSURANCE (5)
Analysis of insurable risks of both businesses and individuals. An examination of the characteristics of those areas of risk and uncertainty where the mechanisms of insurance are effective alternatives. The concept, contracts, and institutions involved in insurance are examined in relationship to the socio-economic environment.

FIN 305. PRINCIPLES OF REAL ESTATE (5)
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.

FIN 321. MONEY AND BANKING (4)
PR: ECN 202 or CI. Factors affecting international business; assessment of risk; international managerial finance; institutions and instruments of international business finance.

FIN 403. LIFE, HEALTH & DISABILITY INSURANCE (5)
PR: FIN 303, ECN 331. The course will analyze the use of life, health and disability insurance contracts as a method of dealing with the risks of death, sickness, and disability. It will also include an analysis of cost determination of the various types of coverage.

FIN 404. PROPERTY INSURANCE (4)
PR: FIN 303. A discussion/lecture course dealing with recognition of personal and business property risks, coverages which may be used in dealing with these risks, and understanding the underwriting, marketing, and social prob-
lem's associated with these coverages. Topics include workmen's compensation, public liability, auto liability, suretyship and crime insurances. Not limited to finance majors.

FIN 411. ADVANCED CORPORATION FINANCE (4)
PR: FIN 301. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganization.

FIN 421. PRINCIPLES OF INVESTMENTS (4)
PR: FIN 301 and ECN 202. 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 431. FINANCIAL INSTITUTIONS (4)
PR: FIN 321. A study of financial institutions and their roles in the capital market in the savings allocation, investment and financial decision making process.

FIN 451. FEDERAL RESERVE SYSTEM AND MONETARY POLICY (4)
PR: ECN 323 or FIN 321. An analysis of the Federal Reserve System, with special emphasis on the formulation and administration of monetary policy and on monetary theory.

FIN 461. FINANCIAL POLICIES AND STRATEGIES (3)
PR: FIN 411. Senior seminar for majors in finance. Quantitative and qualitative analysis of financial policies based on independent readings and empirical research.

FIN 471. PORTFOLIO MANAGEMENT (3)
PR: FIN 421. Study of portfolio policies and strategies of individual and institutional investors. This course utilizes both quantitative and case study approaches to problem solving.

FIN 481. INDEPENDENT RESEARCH OR DIRECTED READINGS (1-5)
PR: CI. Individual Study Contract with Instructor and Department Chairperson required. The content of the course will be mutually determined by the student and the Instructor. Course may be repeated up to 10 hours.

FIN 483. SELECTED TOPICS IN FINANCE (1-5)
PR: CI. Topics to be selected by Instructor and Department Chairperson on pertinent Finance issues.

FINE ARTS (INTERDISCIPLINARY) (FNA)

UPPER LEVEL COURSE
FNA 301. THE ARTS TODAY (2)
A survey of the current activities in the arts both performing and visual, offering the student the opportunity to become more aware of the scope and variety of the arts, both nationally and internationally. Current newspapers, periodicals, and broadcast media will be utilized. May be repeated once. (S/U only.)

FINANCE

FOR SENIORS AND GRADUATE STUDENTS
FIN 501. BUSINESS FINANCE (3)
PR: ACC 501 and ECN 501 or their equivalents. Accelerated introduction to fundamentals of business finance. Emphasis is placed on the formal presentation of financial models for decision making. The institutional features of the financial environment are also covered. Not open to undergraduate students enrolled in the College of Business Administration.

FOR GRADUATE STUDENTS ONLY
FIN 601. FINANCIAL MANAGEMENT (3)
PR: FIN 501 or equivalent. An examination of financial practice at the level of the individual firm with emphasis on quantitative analysis of the variables affecting liquidity, solvency and profitability.

FIN 602. CAPITAL MARKETS (3)
PR: ECN 502 or equivalent. An investigation of the capital markets and their relationship to the external financing of firms.

FIN 611. FINANCIAL POLICY (3)
PR: FIN 601. A case study approach to financial policy and strategy with an emphasis on major financial decisions in the area of external financing, mergers, acquisitions, recapitalization, and reorganization.

FIN 621. INVESTMENTS (3)
PR: FIN 501 or equivalent, CI. An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.

FIN 651. THEORY OF FINANCE (3)
PR: FIN 601, GBA 603 or CI. A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, criteria for optimal investments, under certainty and uncertainty, the financing decision and the cost of capital.

FIN 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

FIN 683. SELECTED TOPICS IN FINANCE (1-6)
PR: Graduate standing and CI. A variable credit course depending upon the scope and magnitude of the work required. Includes special lecture series.

GENERAL FOREIGN LANGUAGES (FOL)

FOR UPPER LEVEL COURSE
FOL 585. DIRECTED STUDY (1-3)
Study of special topics chosen by the student in cooperation with the professor.

FOL 585. DIRECTED STUDY (1-3)
PR: FOL 483 or equivalent.

Arabic (ARA)
UPPER LEVEL COURSES
ARA 390. MODERN ARABIC (3)
An intensive study of the basic grammar, syntax, pronunciation and development of reading and oral skills.
### Classics (CLS)

#### COURSES IN TRANSLATION

**CLS 310. CLASSICAL LITERATURE IN TRANSLATION: TRAGEDY**  
Introduction to the masterworks of Greek and Roman tragedy, with analyses of plays by Aeschylus, Sophocles, Euripides and Seneca.

**CLS 311. CLASSICAL LITERATURE IN TRANSLATION: COMEDY AND SATIRE**  
Survey of the major works of Greek and Roman comedy and satire, including works by Aristophanes, Menander, Terence, Plautus, Petronius, Martial, Horace, and Juvenal.

**CLS 312. CLASSICAL LITERATURE IN TRANSLATION: EPIC AND LYRIC**  
Study of epics and short lyric forms in Greco-Roman literature, including Homer and Vergil, poets from the ‘Greek Anthology,’ Catullus, Propertius, and Horace.

**CLS 351. CLASSICAL MYTHOLOGY**  
Study of the more important myths of the Greeks and Romans as laid down in classical literature and of the impact that Classical mythology made on modern Western and, in particular, English literature.

**CLS 359. CLASSICAL WORD ROOTS IN SCIENCE**  
A course in the Greek and Latin word stock used in all sciences (including medicine), technology, and law. Students need determine specific content of the course.

For GREEK and LATIN courses, see GRE and LAT prefixes.

### French (FRE)

#### COURSES IN TRANSLATION

**FRE 310. HIGHLIGHTS OF FRENCH LITERATURE IN TRANSLATION**  
A study in English of French life through writers since the revolution. Elective for students in all departments.

**LOWER LEVEL COURSES**

**FRE 101. BEGINNING FRENCH I**  
The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

**FRE 102. BEGINNING FRENCH II**  
PR: FRE 101 or equivalent. A continuation of French 101.

**FRE 103. BEGINNING FRENCH III**  
PR: FRE 102 or equivalent. A continuation of French 101 and 102.

**FRE 199. FRENCH FOR READING**  
Designed to provide a reading ability in French that will support research in other disciplines.

**FRE 201. INTERMEDIATE FRENCH I**  
PR: French 103 or equivalent. A review of the basic structure of spoken and written French. May be taken concurrently with FRE 202.

**FRE 202. INTERMEDIATE FRENCH II**  
PR: French 103 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 201.

**UPPER LEVEL COURSES**

**FRE 301. COMPOSITION I**  
A fundamental composition course for students who have completed FRE 201 and 202.

**FRE 303. CONVERSATION I**  
Designed to teach conversation at an early stage in the student’s training. May accompany or follow FRE 201 or FRE 202.

**FRE 308. FRENCH CIVILIZATION**  
Readings and discussion on the cultural history of France. (Formerly FRE 410.)

**FRE 401. COMPOSITION II**  
Continuation of French composition. This course is designed to follow FRE 301.

**FRE 403. CONVERSATION II**  
PR: FRE 303 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

**FRE 405. INTRODUCTION TO FRENCH NOVEL**  

**FRE 406. INTRODUCTION TO FRENCH POETRY AND DRAMA**  

**FRE 483. SELECTED TOPICS**  
The study of various topics chosen by the student in cooperation with the instructor.

**FRE 485. DIRECTED STUDY**  
Study of special topics chosen by the student in cooperation with the instructor.

### FOR UPPER LEVEL AND GRADUATE STUDENTS

**FRE 501. LITERATURE OF THE MIDDLE AGES**  

**FRE 502. LITERATURE OF THE RENAISSANCE**  

**FRE 521. CLASSICAL PROSE AND POETRY**  
PR: FRE 405. Emphasis on Malherbe, La Fontaine, Boileau, Descartes and Pascal.

**FRE 522. CLASSICAL DRAMA**  
PR: FRE 405. Corneille, Molière and Racine.

**FRE 531. 18th CENTURY LITERATURE**  
PR: FRE 405. The classical tradition and the new currents of thought in the Age of Enlightenment.

**FRE 532. PRE-ROMANTICISM**  

**FRE 541. ROMANTICISM**  
PR: FRE 406. A study of the romantic movement with emphasis on Lamartine, Vigny, Musset and Hugo.

**FRE 542. REALISM**  
PR: FRE 406. A detailed study of realism with emphasis on Balzac and Flaubert.

**FRE 543. NATURALISM AND SYMBOLISM**  
PR: FRE 406. A detailed study of the naturalist school with emphasis on Zola, les Goncourt, Maupassant and Daudet.

**FRE 551. THE 20th CENTURY NOVEL**  

**FRE 552. 20th CENTURY POETRY AND THEATRE**  

**FRE 583. SELECTED TOPICS**  
PR: Senior or graduate standing. An examination in detail of a particular author, theme, or movement.
GER 601. OLD FRENCH (4)
PR: Graduate standing. An introduction to the Old French language and literature. Readings from representative texts.

GER 612. MEDIEVAL LITERATURE (4)
PR: Graduate standing. A study in depth of Old French literature of the Middle Ages.

GER 622. SEMINAR ON CLASSICAL DRAMA (4)
PR: Graduate standing. A study of the works of Corneille, Racine or Molière.

GER 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master’s level. Repeatable. (S/U only.)

GER 683. SELECTED TOPICS (1-4)
The study of various topics chosen by the student in cooperation with the instructor.

GER 691. GRADUATE SEMINAR (4)
PR: Graduate standing. Topics vary and are chosen by the students and professor. May be repeated.

GER 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

GER 699. THESIS: MASTER’S (credit varies)
Repeatable. (S/U only.)

German (GER)

COURSES IN TRANSLATION

GER 310. HIGHLIGHTS OF GERMAN LITERATURE IN TRANSLATION (4)
An analysis in English based on translations of the most significant works of the middle ages of Luther, Grimmelshausen, Lessing, Goethe, Kant, Hegel, Nietzsche, Mann, Heidegger, Kafka, Hesse, and contemporary writers of current interest. Elective for students in all departments.

LOWER LEVEL COURSES

GER 101. BEGINNING GERMAN I (3)
The first course in the study of elementary German. Emphasis on the development of basic skills in comprehension, speaking and reading.

GER 102. BEGINNING GERMAN II (3)
PR: GER 101 or equivalent. A continuation of GER 101.

GER 103. BEGINNING GERMAN III (3)
PR: GER 102 or equivalent. Continuation of GER 102.

GER 199. GERMAN FOR READING (4)
Designed to provide a reading ability in German that will support research in other disciplines.

GER 201. INTERMEDIATE GERMAN I (4)
PR: GER 103 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 202.

GER 202. INTERMEDIATE GERMAN II (4)
PR: GER 103 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 201.

UPPER LEVEL COURSES

GER 301. GERMAN COMPOSITION I (4)
A fundamental course for students who have completed GER 201 or 202.

GER 303. CONVERSATION I (4)
Designed to teach conversation at an early stage in the student’s training. May accompany or follow GER 201 or 202.

GER 308. GERMAN CIVILIZATION (4)
PR: GER 201 or 202. Readings in German on the cultural history of Germany.

GER 401. COMPOSITION II (4)
Practical training in modern German usage and differences of style.

GER 403. CONVERSATION II (4)
Free conversation based on the current German idiom.

GER 405. SURVEY OF GERMAN LITERATURE I (4)
Old High German and Middle High German literature in modern German translation; the literature of Humanism and Baroque, the classical period.

GER 406. SURVEY OF GERMAN LITERATURE II (4)
The romantic period, 19th and 20th centuries.

GER 483. SELECTED TOPICS (1-4)
The study of various topics chosen by the student in cooperation with the instructor.

GER 485. DIRECTED STUDY (1-4)
Study of special topics chosen by the student in cooperation with the instructor.

FOR GRADUATE STUDENTS ONLY

GER 513. HISTORY OF THE GERMAN LANGUAGE (4)
A diachronic approach to the study of the German language. The course follows the history and development of the language from Indo-European through Germanic, Old, Middle and New High German.

GER 521. FAUST I (4)
Sources, form, content, and literary significance of Urfaust and Faust I.

GER 531. GOETHE (4)

GER 532. SCHILLER (4)
Selected dramas, philosophical and aesthetic writings.

GER 535. THE ENLIGHTENMENT (4)
Selected dramas and critical writings by Lessing, Wieland, Kant.

GER 543. ROMANTICISM (4)
Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism.

GER 544. REALISM (4)
Selected works by Grillparzer, Grabbe, Büchner, Hebbel, Heine, Immermann, Stifter, Keller, Meyer, Storm, Raabe, Hußhoff and Mörke.

GER 552. 20th CENTURY LITERATURE TO 1945 (4)
A study of major styles in German literature from 1900 to WWII with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George, Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GER 553. 20th CENTURY LITERATURE 1945-PRESENT (4)
Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Dürrenmatt, Boll, Uwe Johnson, Grass, Aichinger, Eich, Enzensberger, Bachmann.

GER 583. SELECTED TOPICS (1-4)
PR: Senior of graduate standing.

FOR GRADUATE STUDENTS ONLY

GER 601. MIDDLE HIGH GERMAN (4)
An introduction to the Middle High German language and the classical literature of that period. Readings from the epics of Hartmann von Aue, Wolfram von Eschenbach, Gottfried von Strassburg, and Minnesang (courtly love poetry).

GER 631. FAUST II (4)
An analysis of Goethe’s last work: mythology, literary significance and critical evaluation.

GER 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master’s level. Repeatable. (S/U only.)

GER 683. SELECTED TOPICS (1-4)
The study of various topics chosen by the student in cooperation with the instructor.

GER 691. GRADUATE SEMINAR (4)
Topics vary. May be repeated.
**Greek (GRE)**

**LOWER LEVEL COURSES**

GRE 101. BEGINNING GREEK I (3)
An introductory course in classical Greek grammar with appropriate readings.

GRE 102. BEGINNING GREEK II (3)
PR: GRE 101 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 103. BEGINNING GREEK III (3)
PR: GRE 102 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 201. INTERMEDIATE GREEK I (4)
PR: GRE 103 or equivalent. Review of grammar; readings in Plato and Homer.

GRE 202. INTERMEDIATE GREEK II (4)
PR: GRE 201 or equivalent. Review of grammar; readings in Plato and Homer.

GRE 203. INTERMEDIATE GREEK III (4)
PR: GRE 202 or equivalent. Review of grammar; readings in Plato and Homer.

**UPPER LEVEL COURSES**

GRE 390. MODERN GREEK I (3)
An intensive study of the basic grammar, syntax, pronunciation and development of reading and oral skills.

GRE 391. MODERN GREEK II (3)
PR: GRE 390.

GRE 485. DIRECTED STUDY (4)
Study of special topics chosen by the student in cooperation with the professor.

**Hebrew (HEB)**

**UPPER LEVEL COURSES**

HEB 390. MODERN HEBREW I (3)
An intensive study of the basic grammar, syntax, pronunciation and development of reading and oral skills.

HEB 391. MODERN HEBREW II (3)
PR: HEB 390.

**Italian (ITA)**

**COURSES IN TRANSLATION**

ITA 310. ITALIAN CLASSICS IN TRANSLATION (4)
The works of the fathers of the Renaissance—Dante, Petrarch, Boccaccio, Machiavelli, Castiglione and others—are read and discussed in English.

ITA 311. MASTERPIECES OF 20TH CENTURY ITALIAN LITERATURE IN TRANSLATION (4)
Studies of the works of Pirandello, Silone, Moravia, Lampedusa, Levi, etc.

**LOWER LEVEL COURSES**

ITA 101. BEGINNING ITALIAN I (3)
The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

ITA 102. BEGINNING ITALIAN II (3)
PR: ITA 101 or equivalent. A continuation of ITA 101.

ITA 103. BEGINNING ITALIAN III (3)
PR: ITA 102 or equivalent. A continuation of ITA 101 and 102.

ITA 201. INTERMEDIATE ITALIAN I (4)
PR: ITA 103 or equivalent. A review of the basic structure of spoken and written Italian.

ITA 202. INTERMEDIATE ITALIAN II (4)
PR: ITA 103 or equivalent. Readings in Italian on the intermediate level. May be taken concurrently with ITA 201.

**UPPER LEVEL COURSES**

ITA 301. ITALIAN COMPOSITION I (4)
To develop the student's ability in writing Italian, to increase his ability in comprehension and use of grammatical elements.

ITA 302. ITALIAN CONVERSATION I (4)
To develop fluency and correctness in spoken Italian.

ITA 303. ITALIAN CONVERSATION II (4)
The study of syntax is intensified and the vocabulary is expanded.

ITA 306. SURVEY OF ITALIAN LITERATURE II (4)
The literature of the Seventeenth through the Twentieth century, with special emphasis on the movements of the Nineteenth and Twentieth centuries.

ITA 412. DANTE—DIVINE COMEDY I (4)
The allegorical, poetic, religious, historical, mythological, and classical aspects of the Inferno are read and discussed.

ITA 483. SELECTED TOPICS (1-4)
PR: Senior standing. An in-depth study of an author, movement or theme.

ITA 485. DIRECTED STUDY (1-4)
The student is accommodated with whatever topic or subject he needs. It is an independent study course with supervision of the instructor.

**FOR GRADUATE STUDENTS ONLY**

ITA 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

**Latin (LAT)**

**LOWER LEVEL COURSES**

LAT 101. BEGINNING LATIN I (3)
An introductory course in Latin grammar with appropriate readings.

LAT 102. BEGINNING LATIN II (3)
PR: LAT 101 or equivalent. An introductory course in Latin grammar with appropriate readings.

LAT 103. BEGINNING LATIN III (3)
PR: LAT 102 or equivalent. An introductory course in Latin grammar with appropriate readings.

LAT 201. INTERMEDIATE LATIN I (4)
PR: LAT 103 or equivalent. Review of grammar; Readings in Vergil, Ovid and Martial.

LAT 202. INTERMEDIATE LATIN II (4)
PR: LAT 201 or equivalent. Review of grammar; Readings in Vergil, Ovid and Martial.

LAT 203. INTERMEDIATE LATIN III (4)
PR: LAT 202 or equivalent. Review of grammar; Readings in Vergil, Ovid and Martial.

**UPPER LEVEL COURSES**

LAT 304. ROMAN ELEGIAC POETS: CATULLUS (4)

LAT 305. ROMAN ELEGIAC POETS: PROPINCIUS AND TIBULLUS (4)
PR: Basic knowledge of Latin. Readings in Propinicus and
Tibullus; further study of art and tradition in Roman lyric poetry.

LAT 309. HORACE (4)
PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the ode's traditions.

LAT 318. ROMAN COMEDY I: PLAUTUS (4)
PR: Basic knowledge of Latin. Readings of selected plays by Plautus; introduction to comedy—its theory and practice.

LAT 319. ROMAN COMEDY II: TERENCE (4)
PR: Basic knowledge of Latin. Readings of selected plays by Terence.

LAT 332. CICERO (4)
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.

LAT 373. CICERO AND ROMAN PHILOSOPHY (4)
PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.

LAT 374. SENECA AND ROMAN PHILOSOPHY (4)
PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic Epicurean, and Epicurean thought.

LAT 421. ROMAN SATIRE I (4)
PR: Basic knowledge of Latin. Readings in the Satyricon of Petronius. Introduction to the nature of satire.

LAT 422. ROMAN SATIRE II (4)
PR: Basic knowledge of Latin. Readings in Seneca's Apocolocyntosis, the satires of Horace, and Juvenal. Introduction to the tradition and art of formal verse satire.

LAT 463. LIVY (4)
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.

LAT 483. SELECTED TOPICS (1-4)
Course content depends on student needs; may range over the whole field of ancient languages, literatures, and civilizations—with particular attention to Latin, Greek. Enrollment may be repeated for different topics.

LAT 485. DIRECTED READING (1-4)
Readings in special topics chosen by the student, in cooperation with the instructor. Permission of the department necessary prior to registration.

Portuguese (POR)

COURSES IN TRANSLATION

POR 406. BRAZILIAN LITERATURE (4)
PR: POR 327. Emphasis on Machado de Assis and later writers, in English.

UPPER LEVEL COURSES

POR 326. ACCELERATED PORTUGUESE I (4)
PR: Two years of another Romance Language or Latin. Basic grammar, syntax, pronunciation and development of reading and oral skills.

POR 327. ACCELERATED PORTUGUESE II (4)
PR: POR 326. Continues development of reading and oral skills.

POR 401. COMPOSITION (4)
PR: POR 327. Emphasis on syntax, verb morphology and accurate writing.

POR 405. PORTUGUESE LITERATURE (4)
PR: POR 327. Emphasis on Camoes and later writers.

FOR GRADUATE STUDENTS ONLY

POR 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

Romance (ROM)

FOR UPPER LEVEL AND GRADUATE STUDENTS

ROM 517. ROMANCE PHILOLOGY (4)
PR: Senior or graduate standing.

ROM 518. MEDIEVAL AND EARLY ROMANCE LITERATURE (4)
PR: ROM 517.

FOR GRADUATE STUDENTS ONLY

ROM 689. BIBLIOGRAPHY (2)
PR: Graduate standing. Research methods. Includes familiarity with major journals and bibliographies, and a practicum. (S/U only.)

Russian (RUS)

COURSES IN TRANSLATION

RUS 310. RUSSIAN CLASSICS IN TRANSLATION (4)
Masterpieces of 19th century Russian literature in translation. The major works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov. Elective for all students in all departments.

RUS 311. SOVIET LITERATURE IN TRANSLATION (4)

LOWER LEVEL COURSES

RUS 101. BEGINNING RUSSIAN I (3)
The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehensio, speaking and reading.

RUS 102. BEGINNING RUSSIAN II (3)
PR: RUS 101 or equivalent. A continuation of RUS 101.

RUS 103. BEGINNING RUSSIAN III (3)
PR: RUS 102 or equivalent. Continuation of RUS 102.

RUS 201. INTERMEDIATE RUSSIAN I (4)
PR: RUS 103 or equivalent. A review of the basic structure of spoken and written Russian. May be taken concurrently with RUS 202.

RUS 202. INTERMEDIATE RUSSIAN II (4)
PR: RUS 103 or equivalent. Readings in Russian on the intermediate level. May be taken concurrently with RUS 201.

UPPER LEVEL COURSES

RUS 301. RUSSIAN COMPOSITION I (4)
Practice in writing paragraphs and short essays in Russian.

RUS 303. CONVERSATION I (4)
Elementary discussion of various topics in Russian; everyday themes.

RUS 401. RUSSIAN COMPOSITION II (4)
Practice in writing in various styles according to correct present-day Russian usage.

RUS 403. CONVERSATION II (4)
PR: RUS 303 or equivalent. Free and directed conversation in Russian on contemporary topics.

RUS 405. SURVEY OF RUSSIAN LITERATURE I (4)
A study of the development of Russian literature from its beginnings through sentimentalism and romanticism. Works to be studied range from the earliest tales and religious works with emphasis on later secular writings. A basic knowledge of the Russian language is required.

RUS 406. SURVEY OF RUSSIAN LITERATURE II (4)
19th and 20th century Russian realistic literature and contemporary Soviet works in novel and short story form. Authors include Gogol, Dostoevsky, Tolstoy, Pasternak,
Spanish (SPA)

COURSES IN TRANSLATION

SPA 310. SPANISH MASTERPIECES IN TRANSLATION (4)
Outstanding literary works of Spain, in English. Open to all non-majors.

SPA 313. LATIN AMERICAN LITERATURE IN TRANSLATION (4)
Outstanding works of Brazil and Spanish America, in English. Open to all non-majors.

LOWER LEVEL COURSES

SPA 101. BEGINNING SPANISH I (3)
The first course in the study of elementary Spanish. Emphasis on the development of basic skills in comprehension, speaking and reading.

SPA 102. BEGINNING SPANISH II (3)
PR: SPA 101 or equivalent. A continuation of SPA 101.

SPA 103. BEGINNING SPANISH III (3)
PR: SPA 102 or equivalent. A continuation of SPA 102.

SPA 201. INTERMEDIATE SPANISH I (4)
PR: SPA 103 or equivalent. A review of the basic structure of spoken and written Spanish. May be taken concurrently with SPA 202.

SPA 202. INTERMEDIATE SPANISH II (4)
PR: SPA 103 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPA 201.

UPPER LEVEL COURSES

SPA 301. COMPOSITION I (4)
PR: SPA 202. To improve ability in writing and increase accuracy in grammatical elements.

SPA 303. CONVERSATION I (4)
PR: SPA 102. For development of basic conversational skills.

SPA 308. HISPANIC CIVILIZATION (4)
The culture and civilization of Spain and Latin America. (Formerly SPA 410.)

SPA 401. COMPOSITION II (4)
PR: SPA 301 or equivalent. A study of syntax, grammar, and stylistic devices of the Spanish language.

SPA 403. CONVERSATION II (4)
PR: SPA 303 or equivalent. To improve fluency in spoken Spanish.

SPA 405. SURVEY OF SPANISH LITERATURE I (4)
PR: SPA 202 or equivalent. From the origins through the 17th century.

SPA 406. SURVEY OF SPANISH LITERATURE II (4)
PR: SPA 202 or equivalent. From the 18th century to the present.

SPA 407. SURVEY OF SPANISH-AMERICAN LITERATURE (4)
PR: SPA 202 or equivalent. An introduction to the study of Spanish-American literature from the Colonial period to the present. Emphasis on modern writers since Dario.

SPA 483. SELECTED TOPICS (1-4)
The study of various topics chosen by the student in cooperation with the instructor.

SPA 485. DIRECTED STUDY (1-4)
Study of special topics chosen by the student in cooperation with the instructor.

FOR UPPER LEVEL AND GRADUATE STUDENTS

SPA 501. PHONOLOGY (4)
PR: SPA 301. A study of the Spanish sound system.

SPA 524. GOLDEN AGE DRAMA (4)
PR: SPA 405. Lope de Vega, Alarcon, Tirso, Calderon, and others.

SPA 526. THE QUIJOTE (4)

SPA 540. ROMANTICISM (4)

SPA 570. MEXICAN LITERATURE (4)
PR: SPA 407. Major writers of all genres. Emphasis on the gaucho theme in the River Plate countries.

SPA 583. SELECTED TOPICS (1-4)
PR: Senior or graduate standing.

FOR GRADUATE STUDENTS ONLY

SPA 601. HISTORY OF THE SPANISH LANGUAGE (4)
Development of Spanish from its Latin origins to the present. Required of all M.A. candidates.

SPA 624. SEMINAR ON GOLDEN AGE DRAMA (4)
A specialized study of a major Golden Age theme or dramatist.

SPA 625. THE PICADESCUE NOVEL (4)
Realistic prose-fiction of the Renaissance and Golden Age.

SPA 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master’s level. Repeatable. (S/U only.)

SPA 683. SELECTED TOPICS (1-4)
The study of various topics chosen by the student in cooperation with the instructor.

SPA 691. GRADUATE SEMINAR (4)
Topics vary. May be repeated.

SPA 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

SPA 699. THESIS: MASTER’S (credit varies)
Repeatable. (S/U only.)
GENERAL BUSINESS ADMINISTRATION (GBA)

LOWER LEVEL COURSES

GBA 261. LAW AND THE INDIVIDUAL (5)
A study of the nature, functions, sources, formulation, and administration of law with the special emphasis on the practical aspects of criminal, tort, estate, divorce, property, business, constitutional, and other areas of law. Not available for credit to students who have been admitted to the College of Business.

GBA 333. COMPUTERS IN BUSINESS I (3)
An introductory interdisciplinary examination of the impact of computers on all areas of business decision-making. Problems are reduced to schematic logic, programmed and tested using the computer. Computer hardware, software, history and terminology are introduced.

GBA 351. COMPUTERS IN BUSINESS II (5)
PR: GBA 333. An advanced interdisciplinary examination of the impact of computer systems on the business enterprise. Concepts of data collection, information theory, business systems analysis, free maintenance and update systems are developed.

GBA 361. BUSINESS LAW I (5)
The nature of legal institutions, essentials of a binding contract, remedies granted in event of breach of contract and rights acquired by assignment of contracts.

GBA 362. BUSINESS LAW II (5)
PR: GBA 361. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

GBA 363. THE LAW OF BUSINESS ASSOCIATIONS (5)
PR: GBA 361. A study of the law of corporations, the law of partnerships, and the law of agency.

GBA 371. BUSINESS COMMUNICATIONS (4)
Analysis and application of the principles of persuasion in business communication; composition and evaluation of functional business letters; examination of effective organization strategy, text, tabular and graphic presentation in formal business report.

GBA 481. INDEPENDENT RESEARCH OR DIRECTED READINGS (1-5)
PR: CI. Individual study contract with Instructor and Department Chairman required. The content of the course will be mutually determined by the student and Instructor. Course may be repeated up to 10 hours.

GBA 483. SELECTED TOPICS IN BUSINESS ADMINISTRATION (1-6)
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

FOR SENIOR AND GRADUATE STUDENTS

GBA 499. SENIOR SEMINAR IN ADMINISTRATION (3)
PR: Senior Standing. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

FOR GRADUATE STUDENTS ONLY

GBA 601. LEGAL ENVIRONMENT OF BUSINESS (3)
A study of the governmental regulation of business emphasizing the constitutional limitations on the powers of the federal government, the administration of the federal anti-trust laws, and administrative law.

GBA 603. QUANTITATIVE METHODS I (3)
PR: College Algebra or equivalent. Mathematical techniques for administrative problems, including linear programming, game theory, and optimization models and procedures using calculus and matrix algebra.

GBA 605. QUANTITATIVE METHODS II (3)
PR: College Algebra, ECN 331, or equivalents. Probability and sampling, Bayesian decision theory, and the design of experiments, as applied to administrative problems.

GBA 615. INTEGRATIVE SEMINAR (3)
PR: CI. The integration of analysis and policy for the decision-making process in administration. This course should be taken at the end of a student’s program.

GBA 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master’s level. Repeatable. (S/U only.)

GBA 699. THESIS: MASTER’S (credit varies)
Repeatable. (S/U only.)

GEOGRAPHY (GPY)


LOWER LEVEL COURSES

GPY 100. GEOGRAPHY OF CURRENT EVENTS (4)
Application of basic geographic principles of the analysis of contemporary events in various parts of the world.

UPPER LEVEL COURSES

GPY 301. SYSTEMATIC GEOGRAPHY (5)
Principles and concepts of the discipline; maps, earth-sun relations, weather, and climate.

GPY 302. SYSTEMATIC GEOGRAPHY (5)
PR: GPY 301 or CI. Landforms and conservation of resources. Latter part of course deals with man’s use of the natural environment.

GPY 303. HUMAN GEOGRAPHY (5)
PR: GPY 301 or CI. Systematic treatment of man’s activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.

GPY 315. ELEMENTS OF GEOGRAPHY (1)
An independent study program in the basic elements of physical and cultural geography. Topics include maps and map reading, history of geography, earth form, weather, climate, soils, water, plants and animals, landforms and minerals, conservation, political, economic, language and religion, settlement and population, and urban. Course is designed primarily for nonmajors. A student may enroll for a maximum of five hours (5 sections) during any quarter. (S/U only.)
GPY 371. GENERAL GEOGRAPHY (5)
Varied topics in regional and topical geography. May be repeated as topics vary, but the same topic may not be repeated for credit. Open to anyone in the University.

GPY 403. PHYSICAL GEOGRAPHY (5)
PR: GPY 301-302 or CI. Courses include meteorology, climatology, physiography, biogeography, soils, water bodies. May be repeated as courses vary, but the same course may not be repeated for credit.

GPY 405. CULTURAL GEOGRAPHY (5)
PR: GPY 301-302 or CI. Courses include economics, political, urban, population, settlement, conservation, and historical geography. May be repeated as courses vary, but the same course may not be repeated for credit.

GPY 407. REGIONAL GEOGRAPHY (5)
PR: GPY 301-302 or CI. Synthesis and analysis of the physical and cultural elements in a selected geographic region such as Africa, South America, Europe, Soviet Union, North America. May be repeated as regions vary, but the same region may not be repeated for credit.

GPY 409. GEOGRAPHIC TECHNIQUES AND METHODOLOGY I (5)
PR: GPY 301-302-303 or CI. Courses include cartography, graphics, map design and analysis, air photo interpretation, field methods, quantitative analysis, seminar. May be repeated as courses vary, but same course may not be repeated for credit.

GPY 481. INDIVIDUAL RESEARCH (1-5)
PR: 30 hours in geography and chairperson’s permission prior to registration. May be repeated.

GPY 485. DIRECTED READING (1-5)
PR: 30 hours in geography and chairperson’s permission prior to registration. May be repeated.

FOR SENIORS AND GRADUATE STUDENTS

GPY 501. GEOGRAPHIC LITERATURE AND HISTORY (4)
PR: Senior or graduate standing in geography, or CI. The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.

GPY 503. METHODOLOGY I: QUANTITATIVE (4)
PR: Senior or graduate standing in geography, and a course in statistics, or CI. The application of quantitative techniques to geographic problems; factor, sensitivity, and spatial analysis.

GPY 505. METHODOLOGY II: CARTOGRAPHIC (4)
PR: Senior or graduate standing in geography, GPY 409 (Cartography), or CI. Application of various techniques for presenting graphic illustrations as research tools.

GPY 507. METHODOLOGY III: FIELD WORK (4)
PR: Senior or graduate standing in geography. Data collection in a field situation, including observation, classification, interpretation, and presentation of the data.

GEOLOGY (GLY)


LOWER LEVEL COURSES

GLY 201. INTRODUCTION TO GEOLOGY (4)
An introduction to the materials, processes and history of the earth. Students may elect to enroll in Gly 202 concurrently. No credit for geology majors or students with credit in GLY 371.

GLY 202. BASIC GEOLOGY LABORATORY (1)
Laboratory examination of mineral and rock specimens, topographic and geologic maps, aerial photographs, and fossils. To be taken in conjunction with GLY 201, 203, 205 or 371. May not be repeated for credit. No credit for geology majors.

GLY 203. THE EARTH: PAST, PRESENT AND FUTURE (4)
A general introduction to the history of the earth as demonstrated by the changes recorded in the rocks and the evolution of organisms preserved. Students may elect to enroll in GLY 202 concurrently. No credit for geology majors.

GLY 205. ENVIRONMENTAL GEOLOGY (4)
A first course in geology emphasizing environmental aspects of the earth’s crust such as earthquakes, depletion of the earth’s resources, water supply problems, and geologic land use and planning. Students may enroll in GLY 202 concurrently. No credit for geology majors.

GLY 210. GEOLOGY I: EARTH MATERIALS (4)
Study of minerals and rocks that comprise the earth’s crust. Basic introduction to the origin and classification of earth materials. Fundamentals of the rock cycle. Designed for science majors. Lec.-lab.

GLY 211. GEOLOGY II: EARTH PROCESSES (4)
Study of surface and subsurface processes of the earth including weathering transportation and accumulation of...
sediment, earthquakes, and other crustal movement, and movements of fluids. Emphasis on streams, coasts, glacial environments, and aeolian environments, and the resulting landforms. Designed for science majors. Lec.-lab.

GLY 212. GEOLOGY III: EARTH HISTORY (4)
Study of the physical and biological history of the earth including evolution of the major groups of organisms, continental drift, and interpretation of ancient environments. Designed for science majors. Lec.-lab.

UPPER LEVEL COURSES

GLY 302. PRINCIPLES OF INVERTEBRATE PALEONTOLOGY (5)
PR: GLY 212 or CI. Emphasis on morphology and habits of fossils invertebrate groups as they evolved through geologic time. Comparisons with modern examples or similar organisms. Stratigraphic distribution of major groups. Lec.-lab.

GLY 310. ROCKS, MINERALS AND GEMS (4)
A general course in the occurrence, classification, and economics of earth materials. Designed for the non-science student or rock collector who is interested in something beyond a basic introductory course. Although no prerequisites are necessary, it is recommended that either GLY 201, 205 or 371 be taken prior to enrollment in GLY 310. No credit for geology majors.

GLY 320. LIFE OF THE GEOLOGIC PAST (4)
General course in development of organisms through geologic time including invertebrates, vertebrates, and plants. Designed for non-science majors interested in fossils, their origins and scientific value in the rock record. Although no prerequisite is necessary, it is recommended that either GLY 201, 203, 205 or 371 be taken prior to enrollment in GLY 320. No credit for geology majors.

GLY 351. INTRODUCTION TO HYDROGEOLOGY (5)
PR: Eight hours of geology, MTH 123 or equivalent, or CI. Occurrence, circulation and distribution of subsurface water, its chemical and physical properties, relation to the geologic environment, exploration and development. Lec.-field-lab.

GLY 361. STRUCTURAL GEOLOGY (4)
PR: 12 hours of geology, MTH 123 or equivalent or CI. Study of the origin and development of structural features of the earth's crust. Applications of principles of geology, physics, and mathematics to understanding relationships of strata and interpreting structural features. Lec.-lab.

GLY 371. GEOLOGY OF OUR NATION'S PARKS (4)
Representative parks used to illustrate current concepts in geology. Students may enroll in GLY 202 concurrently. For the non-science student. No credit for geology majors or students with credit in GLY 201.

GLY 401. FIELD METHODS (4)
PR: 20 hours of geology courses, or CI. Fundamentals of geology in the field; compass and plane table mapping, mapping of aerial photos, reconnaissance surveys, interpretation of geologic structure. Lec.-lab, field trips.

GLY 405. DEPOSITIONAL SYSTEMS (4)
PR: GLY 211, 212 or equivalent. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical chemical, and biological aspect of terrestrial, transitional and marine sedimentary environments will be examined in light of their eventual preservation in rocks.

GLY 409. MARINE GEOLOGY (4)
PR: 20 hours of geology or CI. General survey of the geology of the ocean floor from beaches to oceanic trenches including sediments, processes, tectonics and history. (Formerly GLY 512.)

GLY 410. CRYSTAL CHEMISTRY AND CRYSTALLOGRAPHY (4)
PR: GLY 210, one year chemistry and MTH 123 or equivalent or CI. Theory and application of crystal chemistry and crystallography to rock forming minerals. Emphasis on atomic structures, symmetry and Miller indices of minerals. Lec.-lab.

GLY 411. MINERALOGY (4)
PR: GLY 410 or CI. Origin, occurrence and chemistry of mineral groups with emphasis on rock forming minerals. Identification of common minerals by physical and chemical properties. Lec.-lab. (Formerly GLY 311.)

GLY 412. OPTICAL MINERALOGY (4)

GLY 413. IGNEOUS AND METAMORPHIC PETROGRAPHY (5)
PR: GLY 412. Systematic study of igneous and metamorphic complexes using modern methods of rock study, emphasizing use of the polarizing microscope for thin section analysis. Lec.-lab. (Formerly GLY 513.)

GLY 423. SEDIMENTOLOGY (4)
PR: GLY 405, 412 or CI. Analysis of sedimentary rock and sedimentary structures as related to their environments of deposition. Textural and mineralogical study of sediments and statistical applications of sediment analysis. Lec.-lab., field trips.

GLY 431. PRINCIPLES OF STRATIGRAPHY (4)
PR: GLY 405. Emphasis on classical principles of litho- and biostratigraphy, stratigraphic nomenclature, development of stratigraphic philosophy, and paleogeographic reconstruction of sedimentary basins. Lec.-lab., field trips. (Formerly GLY 531.)

GLY 441. ECONOMIC MINERAL DEPOSITS (4)
PR: 20 hours of geology or CI. Principles involved in the origin, occurrence, recovery, and use of mineral resources. Lec.-lab.; field trips.

GLY 471. GEOLOGY OF SOILS (4)
PR: General Chemistry or equivalent. The origin, geologic development, formation, and nature of soils. Fundamentals of soil science, including the physical, chemical, and biological factors affecting soil fertility with special application to the soils and ecology of Florida. Lec.-lab., field trips. For non-majors.

GLY 473. CONCEPTS IN EARTH SCIENCE (5)
Earth's environment in space, including a selected study of its materials, processes, climate, oceans, soils, and history. Lec.-disc., field trips. No credit for geology majors.

GLY 475. HYDROGEOLOGY AND HUMAN AFFAIRS (4)
PR: Open to all junior and senior level students. Geologic analyses of the present critical and urgent problems of water resources, pollution control, water supply, flood control, and underground waste disposal as they relate to economic, legal, and other social aspects of modern society. Field trips. No credit for geology majors.

GLY 481. UNDERGRADUATE RESEARCH (1-5)
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S/U only.)

GLY 483. SELECTED TOPICS IN GEOLOGY (1-6)
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.

FOR SENIORS AND GRADUATE STUDENTS

GLY 504. PETROLOGY OF CHEMICAL ROCKS (4)
PR: GLY 302, 412 or CI. Origin, mineralogy, and petrology of chemical and organic sedimentary deposits including evaporites, carbonates, cherts, oil and gas, coal and sedimentary iron ores. Lec.-lab, field trips.
GLY 521. PRINCIPLES OF APPLIED GEOPHYSICS (4)
PR: Senior or advanced junior standing, one year of Physics, or CI. Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to site investigations and mineral deposits. Lec.-lab, field trips.

GLY 532. ADVANCED STRATIGRAPHIC PALEONTOLOGY (5)
PR: GLY 302, 405 or CI. Morphology, geologic distribution and stratigraphic ranges of important invertebrate guide fossils. Lec.-lab, field trips.

GLY 541. GEOPHOTO INTERPRETATION (5)
PR: Senior standing, or CI. Geo-analysis of air photos and earth data, including some acquired by remote sensing techniques. Analysis of chemical and physical sample data. Lec.-lab.

GLY 553. ADVANCED HYDROGEOLOGY (4)
PR: GLY 351, MTH 213 or 303, PHY 215-216, or CI. Aquifer evaluation and quantitative determination of the hydraulic characteristics of hydrogeologic systems. Lec.-field-lab.

GLY 571. GENERAL GEOCHEMISTRY (4)
PR: One year college chemistry, GLY 411 or CI. Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.

GLY 573. ANALYTICAL TECHNIQUES IN GEOLOGY (5)
PR: One year college chemistry, GLY 412 or CI. Use and application of modern analytical methods including X-ray, atomic absorption, and other geochemical techniques. Interpretation and statistical analysis of data acquired. Lec.-lab.

GLY 575. GEOTECHNICS (4)
PR: Senior or advanced Junior standing or CI. Concept of soil and rock mechanics, and their relationship to geological conditions influencing the location, design, construction, and maintenance of engineering projects. Lec.-lab-field.

GLY 583. SELECTED TOPICS IN GEOLOGY (1-5)
PR: Senior or advanced junior standing and CI. Each topic is a course in directed study under supervision of a faculty member. All areas of geology included. Departmental permission required prior to registration.

GLY 591. GEOLOGY SEMINAR (1)
PR: Senior or advanced junior standing and CI. May be repeated once. (S/U only.)

FOR GRADUATE STUDENTS ONLY

GLY 603. COASTAL SEDIMENTATION (4)
PR: GLY 423 or equivalent. Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec.-lab, field trips.

GLY 608. CARBONATE PETROGRAPHY (4)
PR: GLY 412, 504 or equivalent or CI. Origin and environmental interpretation of carbonate rocks with emphasis on thin section study as means of interpreting ancient depositional and diagenetic environments. Lec.-lab.

GLY 609. SANDSTONE PETROGRAPHY (4)
PR: GLY 412, 403 or CI. Origin and environmental interpretation of sandstones including fine grained terrigenous sediments. Emphasis on thin-section study of sandstones as means of interpreting ancient depositional and diagenetic environments. Lec.-lab.

GLY 611. ADVANCED IGNEOUS PETROGENESIS (4)
PR: CI. Detailed study of igneous rocks and their origin.

GLY 612. ADVANCED METAMORPHIC PETROGENESIS (4)
PR: CI. Detailed study and interpretation of metamorphism and the origin of metamorphic rock complexes, utilizing thin section microscopy, X-ray diffraction, and chemical analyses.

GLY 620. MARINE PALEOECOLOGY (4)
PR: GLY 302, 423 or CI. Interpretation of the relationships between ancient organisms and their environment with emphasis on the substrate. Applications of modern benthic marine environments and sediment-organism relationships to the fossil record. Lec.-field trips.

GLY 621. MARINE MICROPALEONTOLOGY (4)
PR: 302 or CI. Morphology and geologic distribution of foraminifera, conodonts, ostracods, chitinozoans, discocasters, and coccolithophores. Lec.-lab, field trips.

GLY 625. PALEONTOLOGIC SYSTEMATICS AND TECHNIQUES (4)
PR: GLY 302 or CI. Principles of taxonomic paleontology including synonyms and morphologic descriptions. Preparations of fossils for photographing and camera lucida drawings.

GLY 652. DEVELOPMENT OF GROUND-WATER RESOURCES (4)
PR: GLY 553 or CC. Analysis of cause-effect relationships between ocean, streams, lakes, and aquifers; planning and design of hydrogeology resources investigations. Lec.-lab, field trips.

GLY 661. CLAY MINERALOGY (4)
PR: Graduate standing in geology or CI. Composition, structures, origin, and diagenesis of clay minerals. Identification of clay minerals by X-ray diffraction techniques.

GLY 672. SEDIMENTARY GEOCHEMISTRY (4)
PR: GLY 571 or CI. Fundamentals of aqueous geochemistry in relation to chemical and biochemical precipitation of sedimentary materials. Geochemistry of fluids with emphasis on diagenesis.

GLY 673. CHEMICAL EQUILIBRIA IN THE EARTH (4)
PR: GLY 571 or CI. Application of basic solution geochemistry and equilibria concepts to geologic problems with emphasis on geochemical reactions at low temperatures and pressures.

GLY 675. GEOLOGY OF FLORIDA (4)
PR: 24 hours of earth science credits or CI. Designed for teachers of earth science. Mineralogy, structure, stratigraphy, paleontology, geomorphology, tectonics, and petrology of Florida and contiguous areas. Lec.-field-lab. Alternate years.

GLY 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

GLY 683. SELECTED TOPICS IN GEOLOGY (1-6)
PR: CI. May be repeated for credit.

GLY 691. GRADUATE SEMINAR (2)
PR: CC. May be repeated for credit. (S/U only.)

GLY 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

GLY 695. GRADUATE RESEARCH METHODS (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

GLY 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

HISTORY (HTY)

### LOWER LEVEL COURSES

#### PART I

**HTY 201, 202. ANCIENT HISTORY I, II**
- **A survey study of the ancient civilization.** 201 treats the Near Eastern and Greek history to the beginning of the career of Alexander the Great; 202 treats the career of Alexander, the Hellenistic World, and Rome to the death of Constantine. Attention is drawn to the correlative work in CLS 321, Ancient Civilizations.

**HTY 211, 212. AMERICAN HISTORY I, II**
- **A history of the United States with attention given to relevant developments in the Western Hemisphere.** 211: European origins to 1877; 212: 1877 to present.

**HTY 221, 222. MEDIEVAL HISTORY I, II**
- **A thematic survey of the Middle Ages.** 221 deals with the nascent, Christian civilization of Europe, circa 300-1050 A.D.; 222 treats the mature medieval civilization of Europe, circa 1050-1500.

**HTY 231, 232. MODERN EUROPEAN HISTORY I, II**
- **A thematic survey of Europe in the modern age.** 231 treats the period from the Renaissance to the French Revolution; 232, from the French Revolution to the present.

### UPPER LEVEL COURSES

#### PART II

**HTY 301. AMERICAN COLONIAL HISTORY TO 1750**
- **A study of European interest and involvement in America from the Age of Reconnaissance to 1750.** Attention is given to the development of economic, political, and social institutions as well as the beginnings of distinctive American views.

**HTY 302. THE AMERICAN REVOLUTIONARY ERA**
- **A study of American development from 1750 to 1789 with emphasis on institutional development and the establishment of the American national system as an outgrowth of revolution and counter-revolution.**

**HTY 303. THE AGE OF JEFFERSON**
- **A study of the formation of the American nation state, the development of political parties, continental expansion and reform movements.** Covers the period from 1783 to 1828.

**HTY 304. THE AGE OF JACKSON**
- **A study of the formation of the American national state, the development of political parties, continental expansion and reform movements.** Focuses upon the years from 1828 to the Compromise of 1850.

**HTY 305. THE CIVIL WAR AND RECONSTRUCTION**
- **The events and personalities of the 1850's;** the Civil War and Reconstruction including politics, slavery, reform and expansion are examined in addition to the military conflict.

**HTY 306. THE UNITED STATES, 1877-1914**
- **A study of the transition of American society from the era of Reconstruction to WWI focusing on industrialization, expansion, and urbanization.** (Formerly HTY 319.)

**HTY 307. THE UNITED STATES, 1914-1945**
- **A comprehensive study of the United States from the beginning of World War I to the end of World War II.** Consideration of social and intellectual development, political, economic, and diplomatic developments from the presidency of Woodrow Wilson through the presidency of Franklin Roosevelt. (Formerly HTY 320.)

**HTY 308. THE UNITED STATES SINCE 1945**
- **A study of American society from the end of World War II to the present.** Developments in the political, economic, social and intellectual spheres will be studied and related to the role of the United States in international politics.

**HTY 309. AMERICAN FOREIGN RELATIONS TO 1898**
- **The development of American Foreign Relations in the Agricultural era.** (Formerly HTY 409.)

**HTY 310. AMERICAN FOREIGN RELATIONS SINCE 1898**
- **A history of American Foreign Relations in the Industrial era.** (Formerly HTY 410.)

**HTY 311. THE ORIGINS AND GROWTH OF THE AMERICAN SOUTH**
- **A chronological study of the South in its relations with the rest of the United States focusing on the origins and development of Southern institutions and thought.**

**HTY 312. THE SOUTH AND THE NATION**
- **The growth of the "New South," and the increasing integration and assimilation of the South in the nation.**

**HTY 313. UNITED STATES MILITARY HISTORY**
- **A study of United States military history from the American colonial period to the present.** The United States military experience is studied within the context of related international and domestic developments and integrated with European antecedents.

**HTY 317. EARLY FLORIDA HISTORY**
- **A history of colonial Florida under the Spanish and English.** Florida as an area of discovery, colonization and imperial conflict; the emergence of Florida within its regional setting.

**HTY 318. MODERN FLORIDA HISTORY**
- **Florida from its acquisition by the United States in 1821 to the present time.** Stresses political, economic, and cultural growth and the affect of the environment.

**HTY 321. HELLENIC GREECE**
- **A study of Greece in the Ancient period focusing on the Pre-Hellenic and Hellenic periods to the death of Philip of Macedon.**

**HTY 322. HELLENISTIC GREECE**
- **A study of the career of Alexander The Great and of major developments in the Hellenistic period.**

**HTY 325. ROMAN REPUBLIC**
- **A study of the Roman Republic in the period from its establishment in 509 B.C. to the death of Julius Caesar in 44 B.C.** A prelude deals with Roman origins in the Regal period.

**HTY 326. ROMAN EMPIRE**
- **A study of the Roman Empire in the period from the death of Julius Caesar in 44 B.C. to the death of Marcus Aurelius, A.D. 180.**

**HTY 327. MEDIEVAL SOCIETY**
- **An investigation into the daily life and attitudes of the medieval peasant and townsman, and the agrarian-urban economy and society which affected their lives.**

**HTY 328. MEDIEVAL POLITICS**
- **An inquiry into the nature, distribution, and use of political power in the middle ages.** Studies of the Ecclesiastical and secular nobility, their political actions, attitudes and lives.

**HTY 330. EARLY MODERN EUROPEAN NATIONAL HISTORIES**
- **A study of major developments in specific countries.** Each permanent section of the course will be devoted to the history of an individual country: Section 001, British history to 1715; Section 002, French history to 1789; Section 003, German history to 1870; Section 004, Russian history to 1855. May be repeated for credit providing the student enrolls in a different permanent section.

**HTY 331. MODERN EUROPEAN NATIONAL HISTORIES**
- **A study of Modern historical developments in specific countries.** Each permanent section will be devoted to an individual country: Section 001, British history 1715 to Present; Section 002, French history 1789 to Present; Section 003, German history 1870 to Present; Section 004, Russian history 1855 to Present; Section 005, Italian history 1861 to Present. May be repeated for credit providing student enrolls in a different permanent section.
HTY 345. BRITISH EMPIRE (4)
British Empire and Commonwealth. A study of the first and second British Colonial Empires, the emergence of the British Commonwealth into the Commonwealth of Nations.

HTY 347. HISTORY OF CANADA (4)
A study of the major themes in the political and social development of Canada, with particular emphasis on the origins and development of French-Canadian nationalism, continentalism, and dominion-provincial relations.

HTY 350. SPAIN, PORTUGAL AND THE IBERIAN EMPIRES (4)
A study of the peoples of the Iberian peninsula from the late medieval period to 1898 with emphasis on the Spanish and Portuguese empires in the Western Hemisphere. (Formerly HTY 251, HTY 352.)

HTY 351. MODERN LATIN AMERICA (4)
A study of the emergence of the Latin American state. Emphasis is on Latin America since the wars of emancipation with special attention to the Third World character of the region, including independence, underdevelopment, imperialism and revolution. (Formerly HTY 252.)

HTY 353. MEXICO (4)
A thematic study of Mexican history from Pre-Columbian cultures to the 20th Century, with special emphasis on colonial society, the emergence and development of the Mexican state and the Mexican Revolution.

HTY 354. CARIBBEAN HISTORY (4)
A thematic study of major political and socio-economic developments in the Caribbean area.

HTY 355. HISTORY OF BRAZIL (4)
A study of the social, economic, military and political development of Portuguese Brazil in an otherwise Spanish American continent. Emphasis is on the nineteenth and twentieth centuries.

HTY 356. HISTORY OF CUBA (4)
An examination of Cuban history from Columbus to Castro. Emphasis on a thematic study of Cuba, including conquest and colonization, the nineteenth century struggles for independence, the political-economic of the Republic, and the revolutionary processes of the twentieth century.

HTY 357. ANCIENT AND IMPERIAL CHINA (4)
A survey of Chinese history from the earliest agrarian societal forms through the height of Chinese civilization in the Ming Dynasty (ca. 15th-16th Centuries).

HTY 358. MODERN CHINA (4)
A survey of the 19th and 20th Centuries up to the creation of the Chinese People’s Republic in 1949.

HTY 360. HISTORY OF THE RENAISSANCE (4)
A social and cultural view of Europe during the Renaissance. Specific attention will be given to the artistic and philosophical developments in relation to the social, economic and political situation. (Formerly HTY 425.)

HTY 361. THE REFORMATION AND THE WARS OF RELIGION (4)
A social and cultural approach to European history from Luther to the Thirty Years War, (1517-1648). Religious and political conflicts and solutions will be examined in light of the cultural, social and economic characteristics of the period. (Formerly HTY 426.)

HTY 362. HISTORY OF THE ENLIGHTENMENT (4)
The history of Europe from the Peace of Westphalia (1648) to the outbreak of the French Revolution. (Formerly HTY 428.)

HTY 363. HISTORY OF NINETEENTH CENTURY EUROPE (4)
A comparative study of major economic, political, and sociocultural developments in 19th Century Europe.

HTY 364. HISTORY OF TWENTIETH CENTURY EUROPE (4)
A comparative study of major economic, political and sociocultural developments in 20th Century Europe. (Formerly HTY 430.)

HTY 365. BYZANTINE HISTORY TO 867 (4)
A thematic treatment of the history of Byzantium from 324 A.D. to 867. Course explores social, economic, religious and political developments together with consideration of literature, learning and the arts.

HTY 366. IMPERIAL BYZANTIUM (4)
A study of the Byzantine Empire during the period 867-1453. Emphasizing causes for its decline and fall.

HTY 367. INTRODUCTION TO AFRICAN HISTORY (4)
An outline survey of precolonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also listed as AFA 333.)

HTY 368. AFRICAN HISTORY SINCE 1850 (4)
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states and post-independence problems of nation building and economic development. (Also listed as AFA 334.)

HTY 381. SPECIAL TOPICS (4)
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each quarter.

HTY 400. SOCIAL AND INTELLECTUAL HISTORY (4)
A study of major social & intellectual developments in the areas of concentration offered by the Department. Each area is represented by one of the following permanent sections: Section 001, The Ancient World; Section 002, Medieval Europe; Section 003, Modern Europe; Section 004, Latin America; Section 005, The United States of America. May be repeated for credit providing the student enrolls in a different section.

HTY 461. REVOLUTIONS IN THE MODERN WORLD (4)
A comparative study of the major revolutions in world history and a study of the relationship between revolution and other forms of social change.

HTY 465. SCIENCE AND CIVILIZATION (4)
A thematic study of the interrelationship of science and society in modern history, science as a social institution in history.

HTY 485. DIRECTED READING (1-4)
PR: Cl. Arrangement with instructor prior to registration. Readings in special topics.

PART III

HTY 487. THEORY OF HISTORY (4)
PR: To be taken during the senior year. An investigation of the philosophical problems of history, with emphasis on the evolution of the discipline. (Formerly HTY 587.)

HTY 491. PRO-SEMINAR IN HISTORY (4)
PR: Cl. Advanced topics in the fields emphasizing readings, discussion, research, and writing. One pro-seminar is required of all history majors. Non-majors may enroll with the consent of the instructor. Topics vary within each field. (Formerly HTY 591.)

HTY 492. RESEARCH IN HISTORY (4)
PR: Cl. Introduction to the methods of historical research and writing, bibliography and directed research in special topics designed to meet the particular needs and interests of individual students. Should be taken in the term immediately following enrollment in HTY 491. (Formerly HTY 592.)

FOR GRADUATE STUDENTS ONLY

HTY 600. ANALYSIS OF HISTORICAL KNOWLEDGE (4)
PR: Graduate Standing. A study of History as a form of
knowledge with emphasis on explanatory devices and models of the discipline and the application of Social Science theory to the problems of Historical thought.

HTY 601. THEORY AND INTERPRETATION
A systematic examination and evaluation of various schools of historical interpretation.

HTY 680. COLLOQUIUM IN HISTORY
Reading and discussion of selected topics within the fields. Subject and scope to be determined by the instructor. May be repeated for credit.

HISTORY OF IDEAS (HII)

Director: J. B. Camp, Associate Professor.

UPPER LEVEL COURSES

HII 301, 302. INTRODUCTION TO THE HISTORY OF IDEAS, I & II
301: A study of the principal forces shaping Western thought before 1700, concentrating on the developments of the Hellenic philosophical idea of Mind and the Christian idea of Will. 302: A study of principal forces shaping Western thought since 1700—especially Modern Science and its derivative ideas.

HII 305. THE IDEA OF PROGRESS
A study of the ways in which the idea of progress has affected philosophical, social, political, and literary theory since the Enlightenment. Among major authors considered are: Bacon, Descartes, Kant, Hegel, Marx, Condorcet, Helvetius, Comte, Mill, Darwin and Huxley.

HII 306. THE IDEA OF UTOPIA
A study of the idea of utopia involving (1) an examination of various positive and negative examples of the utopian literary genre and (2) analysis of the idea in relation to the idea of historical progress. Among major authors considered are: Plato, More, Bellamy, Skinner, Huxley and Butler.

HII 315. THE IDEA OF FREEDOM
An analysis of the idea of freedom, both in general and particular. Various philosophical, literary, and journalistic aspects will be analyzed: metaphysical, ethical, political, social, religious and economic.

HII 401. INTRODUCTION TO THE IDEA OF NATURE, I
An introduction to the study of the idea of nature, concentrating on the three major pre-twentieth century conceptions of nature in their logical and historical aspects—hierarchy, mechanism, organism.

HII 402. INTRODUCTION TO THE IDEA OF NATURE, II
An introductory investigation of the impact of twentieth century scientific theory on the idea of nature, with special attention on the post-modern idea of nature as indeterminate (or ambiguous).

HII 411. THE IDEA OF THE SELF
An investigation of the idea of the self as revealed in the works of major writers, philosophers and psychologists of the nineteenth century, with emphasis on the impact of this idea on contemporary thought.

HII 483. SELECTED TOPICS
PR: CI. Course content determined by student’s need and instructor’s interest.

FOR GRADUATE STUDENTS ONLY

HII 610. LANGUAGE AND NATURE
PR: Graduate standing. A study of the idea of nature in European literature in relation to the development of language as an instrument ordering human consciousness of the world, with emphasis on the dialectic, relational, and polar modes of conceptual representation.

HII 611. SEMINAR: LANGUAGE AND NATURE
PR: Graduate standing and HII 610 or CI. Studies concerning the relation between language and the idea of nature. Students will select topics or problems on which to prepare critical papers for presentation to the seminar for discussion.

HII 620. LANGUAGE AND LIMIT
PR: Graduate standing. A study of the relation between two concepts of transfinite limit—Deity and Utopia—to each other and in relation to their bases in the language-induced order of consciousness: as reflected in the religious, aesthetic, and philosophical literature of their expression.

HII 685. DIRECTED READING
PR: Graduate standing and consent of the program of the candidate’s major, and consent of the History of Ideas program. Individual studies in the history of ideas.

HUMANITIES (HUM)


UPPER LEVEL COURSES

HUM 308. THE HUMANITIES
The Arts. Analyses of selected works of film, literature, music, and visual arts, including a variety of periods, nationalities and art forms, emphasizing artistic diversity.

HUM 311, 312, 313. HUMANITIES AND HUMANE VALUES
Masterpieces of music, visual arts, theater, literature, and philosophy in varying cultural and historical situations.

HUM 315. THE HUMANITIES
Studies in Culture: The classical and medieval periods. Analyses of selected works of classical and medieval architecture, drama, sculpture, intellectual prose, and other art forms. Typical course focus is on architecture, drama, and intellectual prose. (Formerly CBS 315.)

HUM 316. THE HUMANITIES
Studies in Culture: The Renaissance and the 19th Century. Analyses of selected fiction, drama, painting, architecture, music, and other art forms. Typical course focus is on painting and music. (Formerly CBS 316.)

HUM 317. THE HUMANITIES
Studies in Culture: The 20th Century. Analyses of selected works of 20th Century art, primarily emphasizing film, with secondary emphasis on painting and fiction. (Formerly CBS 317.)

HUM 350. THE CURRENT SCENE
Live performances in contemporary media will be followed by discussions. The course is designed to bring students into direct contact with artists and their work and to establish an environment for the free exchange of ideas, reactions and
judgments of the works presented. The course will emphasize recent developments in the arts with some special attention to current innovations; film environments, mixed-media, improvisational theatre, random composition, kinetic art, and others. (S/U only.)

HUM 411, 412. TWENTIETH-CENTURY ARTS AND LETTERS (5, 5)
PR: Sophomore standing or CI. Case studies in the arts and letters of the twentieth century.

HUM 415, 416. ARTS AND LETTERS OF THE ROMANTIC PERIOD (4, 4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the romantic period.

HUM 417, 418. NINETEENTH-CENTURY ARTS AND LETTERS (4, 4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the nineteenth century.

HUM 419, 420. THE ENLIGHTENMENT (4, 4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Enlightenment.

HUM 423, 424. RENAISSANCE ARTS AND LETTERS (4, 4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Renaissance.

HUM 427, 428. MEDIEVAL ARTS AND LETTERS (4, 4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the middle ages.

HUM 431, 432. CLASSICAL ARTS AND LETTERS (4, 4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the ancient world.

HUM 481. DIRECTED STUDY (1-5)
Specialized individual study determined by the student's needs and interests.

HUM 483. SELECTED TOPICS IN HUMANITIES (1-5)
PR: Sophomore Standing or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920's. Topics will vary; course may be repeated for credit with change of content.

HUM 491. SELECTED PROBLEMS IN HUMANITIES (3)
Problems in the interrelationships among the fine arts and the natural, social and behavioral sciences. A senior essay for humanities majors.

FOR SENIORS AND GRADUATE STUDENTS

HUM 535, 536, 537. HUMANITIES IN AMERICA (4, 4, 4)
Case studies in the arts and letters of the United States.

HUM 538. AFRICAN ARTS AND LETTERS (4)
Examples from both the traditional and contemporary arts and letters of Africa. Africa as a subject in Western art.

HUM 539, 540. SELECTED NON-WESTERN HUMANITIES (4, 4)
Materials chosen from arts and letters of Asia, Oceania, and the Middle East. May be repeated for credit with change of content.

HUM 541. HUMANITIES IN THE ORIENT: INDIA (4)
Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.

HUM 542. HUMANITIES IN THE ORIENT: CHINA (4)
Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on 20th-century Chinese arts and letters.

HUM 543. HUMANITIES IN THE ORIENT: JAPAN (4)
Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on 20th-century Japanese arts and letters.

HUM 545. LATIN AMERICAN ARTS AND LETTERS (4)
Analysis of selected Latin American works of art in their cultural context.

FOR GRADUATE STUDENTS ONLY

HUM 601. STUDIES IN CLASSICAL ARTS AND LETTERS (4)
PR: Graduate Standing. Examples from the arts and letters of ancient Greece and their relationship to Aegean myths, religions and philosophies. Classical Greek influences on later cultures.

HUM 603. STUDIES IN MEDIEVAL ARTS AND LETTERS (4)
PR: Graduate Standing. Studies in medieval philosophies and their artistic and social expression. Concentrations on early Christian music and manuscript, the communal and monastic ideal (400-1000 A.D.); Romanesque architecture, neoplatonism and emerging humanism (1000-1200 A.D.); Gothic visual arts—cathedrals, stained glass, sculpture—and scholastic philosophy (1200-1500 A.D.).

HUM 605. STUDIES IN RENAISSANCE ARTS AND LETTERS (4)
PR: Graduate standing. Masterpieces and major artists of the Renaissance in Continental Europe and England. (Formerly HUM 623.)

HUM 607. STUDIES IN ENLIGHTENMENT ARTS AND LETTERS (4)
PR: Graduate Standing. Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.

HUM 609. STUDIES IN NINETEENTH CENTURY ARTS AND LETTERS (4)
PR: Graduate Standing. Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.

HUM 611. STUDIES IN CONTEMPORARY ARTS AND LETTERS (4)
Concentration on major artists and recent trends.

HUM 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

HUM 683. SELECTED TOPICS IN HUMANITIES (1-4)
Each topic is a course of study in a subject not covered by a regular course. May be repeated for credit with change of content.

HUMAN SERVICES (HUS)

HUS 326. INTRODUCTION TO HUMAN SERVICES (4)
An introduction to the field of human services. Study of the professions and agencies involved in providing human services. Analysis of the values and ethics of various professional associations. (Formerly SSI 326.)

HUS 327. SOCIAL POLICY IN THE UNITED STATES (4)
PR: HUS 326 or CI. Historical development of social policy in the United States. The impact of industrialization and urbanization on the individual and family. The changing roles of family, community, state and nation. Analysis of current issues. (Formerly SSI 327.)

HUS 426. COMMUNITY ORGANIZATION AND DEVELOPMENT (4)
PR: HUS 326 or CI. An interdisciplinary approach to community organization and development. A synthesis of social, cultural, psychological, economic, and political information concerning community structure and change.
Approaches to the introduction of community change. (Formerly LIN 426.)

HUS 427. THE LIFE CYCLE
An examination of individuals as they move through the various stages of the life-cycle—from birth until death. Attention is given to the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age, old age, etc. Identification of major needs of individuals at different stages of life cycle. (Formerly SSI 427.)

HUS 428. PLANNING AND EVALUATION OF HUMAN SERVICES PROGRAMS
PR: HUS 326 or CI. Review of approaches to planning, coordination, and evaluation of human services programs. Methods of determining efficiency and effectiveness of health, rehabilitation, welfare and community action programs. Application of planning and evaluation techniques to human services fields. (Formerly SSI 428.)

HUS 429. INTERVIEWING
PR: HUS 326 or CI. The principles and techniques of interviewing. Use of interviewing in information gathering, research and helping relationships. Attention given to developing skills in communication across cultural, social, economic and age barriers. (Formerly SSI 429.)

FOR SENIORS AND GRADUATE STUDENTS
HUS 526. INTERVENTION TECHNIQUES
PR: HUS 326 or CI. Attention will be given to techniques of intervention at individual, small group, and community levels. The need for crisis intervention program in modern society. (Formerly SSI 526.)

INTERDISCIPLINARY LANGUAGE-LITERATURE (LLI)

LOWER LEVEL COURSES
LLI 200. USE OF THE LIBRARY
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.)

UPPER LEVEL COURSES
LLI 383. SELECTED TOPICS
Course contents depend on student's need and instructor's interest. Agreement with instructor required prior to registration.

LINGUISTICS (LIN)

UPPER LEVEL COURSES
LIN 301. INTRODUCTION TO LINGUISTICS
Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships. (Note: One section of LIN 301 is for Anthropology majors and requires ANT 201 as a prerequisite.)

LIN 321. LANGUAGE AND MEANING
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas.

LIN 401. DESCRIPTIVE LINGUISTICS
PR: LIN 301, ENG 475, or CI. Introduction to the basic techniques of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution problems drawn from a variety of languages. Both taxonomic and generative analyses and descriptions will be developed and compared.

LIN 405. LANGUAGE TYPES OF THE WORLD
An introduction to linguistic typology consisting in a systematic comparison of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed. (Formerly LIN 551.)

LIN 431. INTRODUCTION TO SOCIOLINGUISTICS
PR: LIN 301 or ENG 475. An analysis of the interrelation of a language and the structure of the society using it. The linguistic behavior patterns characteristic of particular social, political, economic, educational, and racial groups. Problems in communication between strata. (Formerly LIN 540.)

LIN 441. PSYCHOLINGUISTICS
PR: LIN 301 or ENG 475. The nature of linguistic structure and its correlates in behavior and perception. Examination of the hypotheses of Whorf, Chomsky, and others. (Formerly LIN 541.)

FOR GRADUATE STUDENTS ONLY
LIN 600. INTRODUCTION TO GRADUATE STUDY IN LINGUISTICS
Required of all M.A. candidates. An introduction to the aims and methodology of linguistics as a graduate discipline: the field of linguistics and its relationship to adjacent arts and sciences; bibliographical resources; methods of research; and a brief survey of the historical development of linguistics and current issues in the field.

LIN 601. SYNTACTIC DESCRIPTION
Analysis of syntactic descriptions of various languages through data-solution problems in co-occurrence relations, agreement, permutation, conjoining, and embedding. Feature grammars and other models are discussed.

LIN 602. PHONOLOGICAL DESCRIPTION
Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.

LIN 611. HISTORICAL LINGUISTICS
An advanced survey of the principles and methodology of historical linguistics.

LIN 612. COMPARATIVE LINGUISTICS
The principles and methodology of comparative linguistics, focusing upon a major Indo-European subfamily, such as Romance, Germanic, or Balto-Slavic.

LIN 621. STUDIES IN SEMANTICS
Selected problems in the area meaning and the relationship between linguistic structure and cognition. Mappings of presupposition, kinship fields, emotive concepts, and other problems are surveyed. Theories such as Fodor-Katz-Chomsky, Ross-Lakoff-McCawley, and others are contrasted.
LIN 623. THE STRUCTURE OF A SPECIFIC LANGUAGE (4)
A linguistic examination of the phonological, morphological, and syntactic structures of both common and uncommon languages, such as Arabic, German, Mikasuki, Seneca, Swahili, and Russian, etc. No prior knowledge of uncommonly-taught or unwritten languages is presumed on the part of the student (e.g., Mikasuki, Seneca, Swahili). However, when the course focuses upon a regularly-taught major world language (e.g., French, German, Russian, Spanish, etc.) an elementary knowledge of that language will be presumed on the part of the student. May be repeated up to ten credit hours with change in content/title.

LIN 625. HISTORY OF LINGUISTIC THOUGHT (4)
Survey of the development of language study in the West from Antiquity to the present: Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies. (Formerly LIN 511.)

LIN 631. FORMAL STYLISTICS (4)
Studies in the relationship between the development of language study and literary criticism; developments in modern linguistic theory and their application to problems of aesthetics, literary structure, and style.

LIN 633. FIELD METHODS (4)
PR: LIN 401 and SPE 503. An introduction to the techniques of gathering language data in the field, and to making an analysis of such data. Native informants are brought on campus to replicate the field experience: students will become familiar with equipment and tools used by linguists in the field. (Formerly LIN 530.)

LIN 635. SEMIOTICS (4)
PR: CL. Introduction to kinesics and paralinguistics: the linguist structure of gesture, proxemics, and other significant areas of non-verbal communication and signaling behavior. (Formerly LIN 543.)

LIN 639. SOCIOLINGUISTICS (4)
Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its finding for current linguistic theory. (Formerly LIN 540.)

LIN 645. DEVELOPMENTAL PSYCHOLINGUISTICS (4)
PR: LIN 301, ENG 475, or CL. A survey of current research and theory in the processes of normal language acquisition and development. (Formerly LIN 545.)

LIN 661. TOPICS IN THEORETICAL LINGUISTICS (4)
Offerings will include current issues in any area of linguistic theory.

LIN 671. APPLIED LINGUISTICS (4)
Analysis of the phonological, morphological and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers. (Formerly LIN 641.)

LIN 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

LIN 683. SELECTED TOPICS (3-5)
Content will depend upon instructor's interests and student's needs. Such topics as computational and mathematical linguistics, biolinguistics, dialectology and linguistic geography, and pidgins and creoles may be treated, as well as the study of the structures of languages not ordinarily taught.

LIN 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

LIN 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

MANAGEMENT (MAN)


UPPER LEVEL COURSES

MAN 301. PRINCIPLES OF MANAGEMENT (5)
Study of the fundamentals of management, integrating the classical, behavioral, and management science approaches into an organized system of concepts and practices.

MAN 312. INTRODUCTION TO MANAGEMENT SCIENCE (4)
A survey of management science techniques and their application to problem solving and decision making.

MAN 322. ORGANIZATIONAL BEHAVIOR ANALYSIS (4)
A survey of the behavioral and research literature in the behavioral and social sciences relevant to organizational functioning. Emphasis will be placed on the role of the individual, the group and inter-group relations in organizational settings and the impact of managerial environments on organizational behavior and change. Two hours lecture, two hours management problem laboratory.

MAN 332. INDUSTRIAL RELATIONS (4)
A conceptualization of the administrative problems arising from unionization. Emphasis on the relationships between management and employee representatives in private and public employment, and on the historical and legal framework of industrial relations.

MAN 341. PERSONNEL MANAGEMENT (3)
Systematic analysis of major functions in personnel, including manpower planning, recruiting, selection, job evaluation, performance appraisal, wage and salary, incentives, training and development, etc., emphasizing the role of the individual in the organization.

MAN 421. OPERATIONS MANAGEMENT: A SYSTEMS APPROACH (3)
A systems approach to the study of effective operations management tools and concepts. Computerized approaches to problem solving are introduced and an emphasis is placed on interpretation of output for decision making purposes. A knowledge of the basic tools and techniques of management science is required.

MAN 431. ADVANCED ORGANIZATIONAL BEHAVIOR ANALYSIS (3)
Methods of analyzing complex organizational functioning and performance will be studied using selected behavioral models. This course assumes a familiarity with the literature in the field of organizational behavior and its general implications for management. One hour lecture and two hours management laboratory.

MAN 441. ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (4)
PR: ACC 201, ACC 202, MKT 301; or CL. Study of the factors involved in starting and managing a small to medium-size business. Emphasis on conduct of pre-business feasibility study, selection of business field and organization structure, and successful management of marketing, personnel, production, accounting, finance, and related areas.
MAN 471. MANAGEMENT SCIENCE APPLICATION
COUNSELING
PR: MAN 441 or CI. Application of various aspects of business administration in analyzing strengths and weaknesses of an on-going small business. Development of recommendations for improvement and initiation of steps to assist business principal 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.

MAN 451. MANAGERIAL BEHAVIORAL LABORATORY
The development of first hand understanding of the personal, inter-personal and inter-group factors involved in social interaction. A general knowledge of the literature in the field of organizational behavior and social psychology is assumed. One hour lecture and two hours behavior dynamics laboratory.

MAN 453. CHANGING ORGANIZATIONS
The central unifying concept is the role of the Change Agent. Theory and research related to social-organizational change and resistance to change is considered along with its implications for the design of conditions and their differential effects on organizational climate. A knowledge of the literature in organizational and social behavior is necessary. Lecture and management laboratory.

MAN 461. LABOR RELATIONS LAW
A survey of the various legal constraints applicable to labor-management relations. Includes practice in use of library resources for discovering statutes, cases or administrative rulings. This course assumes a general understanding of the organizations of management. Topics include collective bargaining, and traditional methods for resolving industrial conflict. One and one-half hours lecture, one and one-half hours case analysis and research.

MAN 463. SEMINAR IN NEGOTIATION AND ADMINISTRATION OF LABOR AGREEMENTS
An application of industrial relations theory to cases provided by the instructor. Includes exercises in contract negotiation, administration, grievance settlement, and arbitration. This course assumes a general understanding of the organizations of management and union, the role of each in collective bargaining, and traditional methods of resolving industrial conflict. Three hours laboratory under supervision of instructor.

MAN 465. LABORATORY IN THE RESOLUTION OF GROUP CONFLICT
An application of conflict resolution theory to a variety of social settings, including industrial and governmental organizations and inter-racial conflict. This course assumes a general understanding of inter-personal and group behavior. Three hours laboratory under the supervision of instructor.

MAN 471. MANAGEMENT SCIENCE APPLICATIONS
A study of the application of management science models to typical organizational problems. Emphasis is on (1) problem formulation (2) data collection and (3) interpretation and implementation of solutions. A laboratory using decision science problems of organizations is a major part of this course. A knowledge of the basic tools and techniques of management science is required.

MAN 472. MANAGEMENT SCIENCE MODELS
A study of the theoretical basis of various management science models. These include linear, integer, dynamic, quadratic and geometric programming; plus, gradient methods and branch and bound. A knowledge of the basic tools and techniques of management science is required.

MAN 473. SIMULATION AND MODELING TECHNIQUES
A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

MAN 481. INDEPENDENT RESEARCH OR DIRECTED READINGS
PR: CI. Individual study contract with Instructor and Department Chairman required. The content of the course will be mutually determined by the student and Instructor. Course may be repeated up to 10 hours.

MAN 483. SELECTED TOPICS IN MANAGEMENT
PR: CI. Topics to be selected by Instructor and Department Chairperson for pertinent Management issues.

MAN 499. INTEGRATIVE SEMINAR IN MANAGEMENT
PR: One of the following group: MAN 312, MAN 322, MAN 332; and two additional upper level MAN courses, and senior standing; or CI. A capstone course intended to integrate the concepts, generalizations, principles, and skills learned separately in previous, more specialized courses in Management and Administration. Emphasis, decision-making, action planning, and implementation.

FOR SENIORS AND GRADUATE STUDENTS
MAN 501. SURVEY OF MANAGEMENT
A background-building course for senior undergraduates or beginning graduate students who require additional background in any course area. Modules will be offered in behavioral, quantitative and industrial relations areas.

MAN 572. URBAN MANAGEMENT
A problem-oriented course dealing with an analysis of a modern urban environment and urban management systems. Urban managers may participate in the seminar and significant urban problems will be used as vehicles for instruction. These will include the development of a management information system for making land use decisions and the planning and evaluation of community development programs.

FOR GRADUATE STUDENTS ONLY
MAN 601. MANAGEMENT OF ORGANIZATIONAL BEHAVIOR
A survey course emphasizing the applications of theory and research in behavioral and social sciences to the practice of management. Topics include the determinants of behavior in complex organizations, the impact of work environments on employees, organization diagnosis and change using field data wherever possible.

MAN 602. ADMINISTRATIVE DECISION PROCESSES
PR: GBA 603 and GBA 605. A survey of the development and implementation of systematic decision processes in organizations. The course analyzes the application of Management Science and Operations Management techniques to problem solving in organizations.

MAN 603. MANAGEMENT OF COMMUNICATIONS
The analysis, organization and presentation of verbal and written communications and reports. Students will select and define a problem area, construct an annotated bibliography in that area, develop a research design for collection and analysis of appropriate data, and write a report on the proposed program in a form acceptable to the organizational and academic community. This work should represent a first step in selecting and developing a thesis. (MAN 699).

MAN 604. SIMULATION OF ADMINISTRATIVE SYSTEMS
A study of manual and computer simulation techniques and their application to administrative problem solving. The course emphasizes: model design and construction; data collection and analysis; model testing and implementation problems. A computer language, such as GPSS or SIMSCRIPT, is used for model construction.
MAN 606. QUANTITATIVE ANALYSIS OF MANAGEMENT DECISIONS (1-3)
A study of the development and application of Operations Research tools for administrative problem solving. Using a decision science lab and case approach, the course emphasizes: systematic data collection for problem analysis; identification of appropriate tools for various types of problems; implementation difficulties; and, analysis and interpretation of results.

MAN 607. MANAGEMENT OF CONFLICT (1-3)
A survey of the literature on social conflict with emphasis on the causes of conflict within and between various types of organizations. The course will examine and evaluate traditional, as well as, innovative techniques for the resolution of conflict.

MAN 608. THE MANAGEMENT OF OPERATIONS (1-3)
A study of the development of systematic planning and control systems at the operational level in organizations. Topics include, but are not limited to: quality control, materials management, cost control, work measurement and work flows, inventory management, production control, and project management and control.

MAN 609. MANAGERIAL BEHAVIOR (3)
A laboratory approach to the understanding of patterns of interpersonal and inter-group behavior which are significant for the managerial role. Topics include perception expectation, motivation, defenses, conformity—deviation, status, anxiety, behavior control, self development, leadership styles, efficient utilization of time, and a critical analysis of current procedures used for manager development.

MAN 610. COMPUTERS AND MANAGEMENT: THE EXECUTIVE VIEWPOINT (1-3)
A study of the use and impact of computers and in modern organizations. The course emphasizes: current practices and future trends; the extended use of computers for broader planning and decision making systems; the development of Data Based Management Systems and MIS; and, the behavioral problems associated with computerization. Students desiring "hands-on" computer experience may register for an additional special topics course to be taken concurrently with this course.

MAN 611. ORGANIZATIONAL THEORY AND ITS IMPLICATIONS FOR THE MANAGER (1-3)
The course covers the major theories of organization and a comparative analysis of the differential options these theories provide for managerial strategy. It deals with the design of managerial environments for accomplishing different goals, the research literature in this field and the implication of this research for prediction and design of environmental change.

MAN 613. THE MANAGEMENT OF ORGANIZATIONAL CHANGE (1-3)
An experiential learning course utilizing real data from profit and not-for-profit organizations. The course is designed to provide students with direct experience in the systematic planning, implementation and control of change. By actually collecting and analyzing real data each student develops an operationally viable model for the changes inevitable in any on-going organization.

MAN 614. LABOR RELATIONS LAW (3)
A survey of the various legal constraints applicable to the employer-employee relationship. Included are such areas as collective bargaining, civil rights, and fair labor standards. (Also offered as ECN 614.)

MAN 615. THE PRACTICE OF MANAGEMENT (1-4)
The course offers the student the opportunity to focus on an overall organization and to gain an understanding of the interaction between various components which the manager must integrate—the economic, financial, social, political, and technological. The aim is to provide students with experience in integrative skills through organizational design, planning and control, communication and leadership. To be taken during the last two quarters of study; preferably the final quarter.

MAN 621. MANPOWER MANAGEMENT (3)
A study of the major factors involved in the development of an effective manpower management strategy; including manpower planning, selection, organization and job design, performance evaluation, career advancement, employer benefits, rights and compensation. Emphasis is on an open-system view recognizing the need to operate within the complex external legal and societal environment while reducing internal conflict.

MAN 622. PLANNING, CONTROL AND HUMANISM IN MANAGEMENT (4)
A study of an increasing dilemma which is central to the role of all those in supervisory or managerial roles—the conflict between the need to exercise increasingly efficient controls through behavior, planning and budgets and the need for more humanistic management. The dilemma will be considered in a framework of stages of organizational development showing how stages occur in a particular order, how control is managed at each stage and how the conflict between control and humanism decreases with progression. Methods for accomplishing more rapid organizational progression through stages will be presented.

MAN 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

MAN 683. SELECTED TOPICS (1-6)
This course is designed to be taken either: in a tutorial format under the general guidance of a faculty member on some facet of management not regularly offered in a regular course; or, in conjunction with any regularly scheduled graduate course where a more in-depth study of the subject is mutually deemed to be beneficial to the student's program. Topics would include, but not be limited to: management of health care, managing governmental systems, managing educational systems, entrepreneurial management, managing not-for-profit organizations, managing motivation development. May be retaken for credit providing topic selected is different.

MAN 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

MARINE SCIENCE (MSC)


UPPER LEVEL COURSES

MSC 311. INTRODUCTION TO OCEANOGRAPHY (3)
Topics in biological, chemical, geological and physical oceanography presented in lectures by a number of specialists in these fields.

FOR SENIORS AND GRADUATE STUDENTS

MSC 511. MARINE POLICY (3)
PR: MSC 311 or CI. Course explores marine problems and their impact on society. Topics of interest include financing and organization of marine science; regulation (local, state, and Federal) of uses of marine waterways, and the sea; political, social, and legal problems associated with marine pollution and the recovery and development of marine resources; conservation and public decision-making in the marine sphere.
MSC 519. Ichthyology (5)  
PR: CI or senior or graduate status: BIO 201-203, BIO 465 (helpful), ZOO 311 (helpful). The evolution, systematics, and ecology of fishes. (Also offered as ZOO 519.)  

MSC 521. Chemical Oceanography (4)  
PR: CHM 213 and CI. The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, modern methods of analysis in routine use in oceanography. Lec.-lab.  

MSC 531. Geological Oceanography (4)  
PR: Graduate standing or CI. An introduction to the physical, historical sedimentary, and structural geology of the ocean basins and their borders. Lec.-lab.  

MSC 541. Physical Oceanography (4)  
PR: Graduate standing or CI, PHY 305. The world ocean including its morphology, physical properties, currents, waves, tides, heat budget, and related topics. Lec.-lab. (Also listed as EGB 610.)  

MSC 551. Biological Oceanography (4)  
PR: Graduate standing or CI, BIO 201-203. The study of life in the sea with special reference to distribution, reproduction, adaptation, competition, and populations. Lec.-lab. For students who have not majored in a biological science.  

MSC 583. Selected Topics in Oceanography (1-4)  
PR: CI. Special topics in biological, chemical, geological, and physical oceanography.  

FOR GRADUATE STUDENTS ONLY  

MSC 610. Scientist-in-the-Sea, I, Hyperbaric Operations (4)  
PR: CI and diver certification (NAVI or equiv.). Basic principles, physiology, and psychology involved in submarine hyperbaric operations, inside and outside habitats. Lec.-lab. (Also listed as EGB 610.)  

MSC 611. Scientist-in-the-Sea, II, Marine Sciences (4)  
PR: CI and diver certification (NAVI or equiv.). Research equipment and techniques for underwater work in oceanography presented by practicing research workers in the field. Lec.-lab. (Also listed as EGB 611.)  

MSC 612. Scientist-in-the-Sea, III, Underwater Engineering (4)  
PR: CI and diver certification (NAVI or equiv.). The ocean as a constraint for construction and devices. Factors involved in planning and design of underwater operations and experimental devices. Lec.-lab. (Also listed as EGB 612.)  

MSC 622. Methods in Chemical Oceanography (2)  
PR: MSC 521 or CI. An intensive study of the use and limitations of field and laboratory equipment which is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.  

MSC 632. Methods in Geological Oceanography (2)  
PR: MSC 531 or CI. Description and application of the modern techniques of geology and geophysics used to investigate the marine environment. Included in the subject matter are basic remote sensing techniques, sampling problems, seismic profiling, laboratory methods and interrelated data analysis. Lec.-lab, field trips.  

MSC 642. Methods in Physical Oceanography (2)  
PR: MTH 305, MSC 541 or MSC 521, and CI. Field and laboratory techniques for acquisition, reduction, display, and discussion of physical oceanographic data (e.g., waves, tides, currents, dissolved and suspended constituents).  

MSC 643. Oceanic Modeling (3)  
PR: MSC 541, MTH 501 or equivalent, and CI. Theory of oceanic modeling including classical analytic wind-driven circulation models, thermohaline models, and both explicit and implicit techniques for numerical modeling of circulation, upwelling, tidal velocities, and diffusion.  

MSC 650. Marine Algal Ecology (3)  
PR: BOT 543 or BOT 547 or CI. A consideration of environmental factors that influence the distribution, abundance, and growth of marine algae. (Also listed as BIO 650.)  

MSC 651. Marine Plankton Systematics (4)  
PR: ZOO 313. The identification of plankton from different depth zones in the sea and from various oceanic regions. Lec.-lab. (Also listed as BIO 651.)  

MSC 652. Methods in Biological Oceanography (2)  
PR: CI. To acquaint students with field and laboratory equipment and techniques currently used in biological oceanography. Emphasis will be on field problems especially those requiring research at sea.  

MSC 653. Marine Plankton Ecology (4)  
PR: ZOO 313. The relationships and distributions of planktonic organisms as affected by their physical, chemical and biological environments. Lec.-lab. (Also listed as BIO 653.)  

MSC 656. Dynamics of Marine Benthic Communities (4)  
PR: EGB 231, ZOO 557, or CI. Theoretical approach to the study of benthic communities in fluctuating and constant environments. Methods of analysis of benthic data will be evaluated and discussed. Computer programs will be utilized for analysis wherever possible. Lec.-lab.  

MSC 671. Field Studies in Marine Science (4)  
PR: One of the following: MSC 521, 531, 541, 551, 622, 632, 642, 652, or CI. Combination of class room study with the collection, analysis, and interpretation of field data to attack specific problems in marine science both for deep sea and nearshore environments.  

MSC 681. Directed Research (credit varies)  
PR: GR. Master's level. Repeatable. (S/U only.)  

MSC 683. Selected Topics in Oceanography (1-4)  
PR: CI. Special topics in biological, chemical, geological, and physical oceanography.  

MSC 691. Graduate Seminar in Oceanography (1)  
PR: Graduate standing. May be repeated. (S/U only.)  

MSC 699. Thesis: Master's (credit varies)  
Repeatable. (S/U only.)  

MARKETING (MKT)  


UPPER LEVEL COURSES  

MKT 301. Basic Marketing (5)  
PR: ECN 201-202 or CI. Survey of the marketing of goods and services within the economy. The integration of functional, commodity, and institutional approaches from the consumer and managerial viewpoints.  

MKT 311. Principles of Salesmanship and Sales Management (3)  
PR: MKT 301. Personal selling and sales management as basic elements in the marketing strategy of firms. Includes the scientific management of resources and the dynamics of interpersonal and small group behavior and decision processes.
MKT 411. MARKETING RESEARCH (4)
PR: MKT 315, Ecn 331, GBA 333, or Cl. Analysis of the logistics of marketing systems for firms engaged in the marketing of goods and services. Component parts of each system are studied and analytical tools are presented for selecting those alternatives which will attain the goals of the firm.

MKT 405. INDUSTRIAL MARKETING (3)
PR: MKT 315. Problems of marketing industrial goods. Characteristics of markets, channels, industrial sales, promotional practices, research and marketing policies.

MKT 407. MANAGEMENT OF ADVERTISING AND SALES PROMOTION (3)
PR: MKT 312 or Cl. Discussion and analysis of cases bearing on managerial aspects of advertising and sales promotion including research, budget determination, strategy, tactics, and evaluation of results.

MKT 409. INTERNATIONAL MARKETING (3)
PR: MKT 312, MKT 315, or Cl. A study of the procedures and problems associated with establishing marketing operations in foreign countries. The institutions, principles and methods involved in the solution of these business problems will be treated as well as effects of national differences on business practices.

MKT 411. MARKETING RESEARCH (4)
PR: MKT 312, MKT 315, Ecn 331 or MTH 345; or Cl. A study of research methods applicable to problem-solving in the field of marketing.

MKT 413. CONSUMER BEHAVIOR (3)
PR: MKT 301 or Cl. An investigation and application of the behavioral factors affecting consumer demand. Consideration given to industrial, governmental and ultimate consumers.

MKT 414. SEMINAR IN MARKETING AND CONSUMER BEHAVIOR RESEARCH (3)
PR: MKT 312, MKT 411, MKT 413. In-depth discussion, formulation, application, and evaluation of advanced research techniques and practices as currently applied to facilitate marketing decisions.

MKT 417. RETAILING MANAGEMENT (3)
PR: MKT 301, MKT 315, and MKT 413. A comprehensive analysis of the retailing structure, institutions and environment. Includes pertinent management theories and practices in organizing, planning and controlling retail operations.

MKT 419. MARKETING MANAGEMENT PROBLEMS (4)
PR: MKT 411, MKT 413, and 3 other MKT courses, or Cl. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

MKT 481. INDEPENDENT RESEARCH OR DIRECTED READINGS (1-5)
PR: Cl. Individual study contract with Instructor and Department Chairperson required. The content of the course will be mutually determined by the student and Instructor. Course may be repeated up to 10 hours.

MKT 483. SELECTED TOPICS IN MARKETING (1-5)
PR: Cl. Topics to be selected by Instructor and Department Chairperson.

FOR SENIORS AND GRADUATE STUDENTS

MKT 501. SURVEY OF MARKETING (3)
PR: Ecn 501. A critical analysis of the field of marketing including aspects of marketing policies, institutions, research, and trends. Special emphasis is given to product development, pricing strategy, channel selection, and promotion as a basis for marketing management decisions. Assigned readings, discussions, and reports.

FOR GRADUATE STUDENTS ONLY

MKT 601. ADVANCED MARKETING PROBLEMS (3)
PR: MKT 301 or 501, Ecn 605 or Cl. A study of the marketing problems of the firm approached from a management point of view. Emphasis is placed upon the development of the student's ability to analyze marketing situations, identify problems, determine solutions, implement corrective action, and plan marketing strategy.

MKT 602. ANALYSIS FOR MARKETING MANAGEMENT (3)
PR: MKT 601, GBA 603, GBA 605, or Cl. The use of quantitative techniques and analytical concepts in marketing decision making; marketing research, model building and simulation; selected statistical decision techniques and computer applications.

MKT 603. SEMINAR IN MARKETING (3)
PR: MKT 301 or 501; Ecn 601, 605. The study of contemporary marketing thought, advanced marketing concepts, and recent developments in the field of marketing. Readings, discussions, and individual investigation.

MKT 605. BEHAVIORAL CONCEPTS IN MARKETING DECISION MAKING (3)
PR: MKT 601 or Cl. The application and techniques of the behavioral sciences to the understanding and improvement of the marketing process and decision making concerning consumer behavior.

MKT 607. SEMINAR IN PROMOTIONAL POLICY AND STRATEGY (3)
PR: MKT 605 or Cl. An analysis of theories and practices of advertising, selling and sales management, and sales promotion as they relate to the total marketing program of firms. Emphasis upon the coordination of promotional policy and strategy.

MKT 609. MARKETING CHANNELS AND PHYSICAL DISTRIBUTION MANAGEMENT (3)
PR: MKT 602, MKT 605, or Cl. An analysis of the development of integrated distribution systems. Channel alternatives, including the institutions involved and physical flow, as a part of marketing strategy.

MKT 611. MARKETING RESEARCH AND INFORMATION SYSTEMS (3)
PR: MKT 602, GBA 603, GBA 605, or Cl. A study of the marketing research process, methods and techniques and the need and applicability of information systems.

MKT 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)
MASS COMMUNICATIONS

**Chairperson:** E. L. Sassor; **Professor:** A. M. Sanderson, E. L. Sassor; **Associate Professors:** W. E. Grisciti, R. L. Kerns, M. Lucoff, E. S. Yates; **Assistant Professors:** K. E. Fenderson, W. G. Fudge, Jr., J. A. Halbe, D. A. Horman, G. Meyer; **Instructors:** W. M. Brady, W. F. Moys; **Lecturer:** G. G. Daughterty; **Visiting Professor:** Harry Skornia; **Visiting Lecturer:** D. K. Baldwin.

### UPPER LEVEL COURSES

**COM 300. SURVEY OF MASS COMMUNICATIONS** (3)  
The functions of agencies of mass communication and their impact upon society; critical analyses of press performance in relation to current events; evaluation of the press through a study of its history. *Not open for credit to Mass Communications majors.*

**COM 301. THE POPULAR ARTS IN AMERICA** (4)  
A survey of the growth of the popular arts (motion pictures, radio, television, art, best sellers, jazz and other forms of music, the comics, etc.) as mirrors, transmitters and transformers of American cultural values.

**COM 302. WRITING FOR THE MASS MEDIA** (4)  
**PR:** Sophomore standing; 2.5 GPR; grade of "C" in English 101, 102, 103; typing proficiency. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

**COM 303. MASS COMMUNICATIONS AND SOCIETY** (4)  
**PR:** Sophomore standing; 2.5 GPR; grade of "C" in English 101, 102, 103; typing proficiency. A survey of the history, theory, processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

**COM 311. INTRODUCTION TO ADVERTISING** (4)  
**PR:** COM 302 and COM 303. A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic and legal aspects.

**COM 312. ADVERTISING MEDIA STRATEGY** (4)  
**PR:** COM 311 or CI. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

**COM 313. ADVERTISING COPY** (4)  
**PR:** ECN 100 or ECN 201, MKT 301, COM 311 or CI. Study and laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays and special items.

**COM 314. RADIO-TELEVISION ADVERTISING** (4)  
**PR:** COM 311 or CI. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.

**COM 320. MAGAZINES IN SOCIETY** (4)  
**PR:** COM 302 and COM 303. A study of the development of various types of magazines in America, and a critical analysis of current problems and performance of periodicals along with changes indicated for the future.

**COM 321. MAGAZINE ARTICLE AND FEATURE WRITING** (4)  
**PR:** COM 330, ENG 321, ENG 325, or CI. Planning, researching, writing and marketing articles for general and special interest magazines and newspaper magazine supplements; experience in developing article ideas; inductive analysis of contemporary magazine articles.

**COM 325. MAGAZINE EDITING** (4)  
**PR:** COM 321 or CI. Comparative study of types of magazines according to interests of the faculty and students involved in any given term. Repeatable to a maximum of six hours.

**MASS COMMUNICATIONS (COM)**

**BEGINNING REPORTING** (4)  
**PR:** COM 302 and COM 303. Basic instruction in news judgment, sources of news, newsgathering and newswriting techniques. Typing ability is required.

**ADVANCED REPORTING** (4)  
**PR:** COM 330. Getting information and writing the more complex and specialized story, techniques of investigative and analytical reporting, including ethical and legal considerations.

**CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS** (4)  
**PR:** COM 331, COM 433. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing; evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing art, drama, music and book reviews and satire, sports or personal columns.

**REPORTING PRACTICUM** (2)  
**PR:** COM 435 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in a live newspaper reporting situation where the student works for academic credit under the tutelage of a professional practitioner.

**PRINCIPLES OF PUBLIC RELATIONS** (4)  
**PR:** COM 302 and COM 303. The functions of public relations within corporate and institutional structures; ethical standards of practice, and relationships of the practice to the public media and other modes of contemporary communication.

**LITERATURE AND THE FILM** (3)  
**PR:** ENG 102. A study of what happens when a novel is adapted for the movies; of the insights of modern writers and literary critics into the motion picture as an art form analogous to, yet distinct from, literature and of the impact of literature on film-making. *Not open for credit to COM majors.*

**PHILOSOPHY AND THE FILM** (3)  
A study of the philosophical implications of the motion picture as an art form; esthetics in general versus film esthetics; the connection between the world views of such modern philosophers as Bergson, Whitehead, and Bradley, and the world view expressed through the motion picture; the connections between "pure ideas," the ideas in the documentary film and the ideas in the fictional film. *Not open for credit to COM majors.*

**INTRODUCTION TO FILM WRITING** (4)  
**PR:** COM 354 or CI. An introduction to the techniques of writing for the film employing adaptations from fiction and examinations of scripts as models and as subjects for critical analysis. Special emphasis on learning the Language of the Camera.

**THE FILM AS MASS COMMUNICATION I: SYNTAX** (4)  
**PR:** COM 302 and COM 303. The language, conventions, elements and patterns of the film medium as related to current models of effective mass communication and new theories of non-verbal communication. Concurrent laboratory experiences in control of light and line.

**THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS** (4)  
**PR:** COM 354. A continuation of COM 354 to include the effective arrangements of scenes and sequences in motion

**SELECTED TOPICS IN MARKETING** (1-6)  
**PR:** CC. The content and organization of this course will vary according to interests of the faculty and students involved in any given term. Repeatable to a maximum of six hours.
picture and television films. Concurrent laboratory experiences in sound and editing.

COM 356. THE FILM AS MASS COMMUNICATION III: WORKSHOP (4)

COM 357. CLASSICS OF THE SILENT FILM (4)
Examples of the silent film studies from social, intellectual, historical, and artistic points of view.

COM 358. CLASSICS OF THE SOUND FILM (4)
Examples of the sound film studies from social, intellectual, historical, and artistic points of view.

COM 361. INTRODUCTION TO BROADCASTING (4)
PR: COM 302 AND COM 303. A survey of the organization, structure, and function of the broadcasting industry. (Formerly SPE 241.)

COM 362. BROADCAST NEWS (4)
PR: COM 330, COM 361. The study and methods in gathering, writing and editing newscasts for radio and television. (Formerly COM 335.)

COM 363. BROADCAST ANNOUNCING (4)
PR: COM 361. Development of skills required for effective announcing and other appearances before microphone and camera. (Formerly SPE 343.)

COM 364. RADIO PRODUCTION AND DIRECTION (4)
PR: COM 361. Radio production and direction; laboratory and broadcast experiences. (Formerly SPE 347.)

COM 367. RADIO PRACTICUM (2)
PR: COM 364 and CI. The study, rehearsal, and production of radio programs and materials. (Formerly SPE 348.)

COM 368. WRITING FOR RADIO AND TV (4)
PR: COM 361. The writing of radio and television scripts such as documentaries, children’s programs, commercials, dramas, talks and demonstrations. (Formerly SPE 349.)

COM 370. INTRODUCTION TO VISUAL COMMUNICATIONS (4)
PR: COM 302 and COM 303. The survey of visual communication theory, history, contemporary application and social influences. Emphasis will be on still photography, motion pictures, video taping and graphics as applied to the media.

COM 371. PHOTOJOURNALISM (4)
PR: COM 302 and COM 303. Camera operation, darkroom techniques, picture composition; editing, ethics, history and laws in connection with photojournalism.

COM 372. PHOTOJOURNALISM II (4)
PR: COM 371 or CI. Advanced process and practice of photography for publication. Content includes advanced camera and laboratory techniques, publication requirements and theory of photochemical color separation used in magazine and newspapers. Emphasis is placed on student production.

COM 375. TYPOGRAPHY I (4)
PR: COM 302 and COM 303. The history and design of type, major classifications of type faces, typographic nomenclature, printer’s measurements and the science of type design and identification. Laboratory work.

COM 376. TYPOGRAPHY II (4)
PR: COM 375 or CI. A study of the history of typesetting, the emergence of computers and colotype composition; extensive study and use of copyfitting methods for body type, display, and headlines; principles of typography and photocomposition including readability and legibility. Laboratory work.

COM 383. SELECTED TOPICS IN MASS COMMUNICATION STUDIES (1-4)
Courses designed to meet current or specific topics of interest to the instructor and students.

COM 400. INTERNATIONAL COMMUNICATION (4)
Mass communications as internal and international systems; flow of the news; international news communications networks; satellite communications; overseas activities of American media interests; international propaganda; communication and national development; international media organizations and their activities.

COM 403. HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW (4)
PR: COM 302 and COM 303. Historic and Constitutional backgrounds of freedom and control of expression, statutory enactments, major Supreme Court cases, court decisions and administrative rulings which have shaped legal control of communications.

COM 405. GOVERNMENT AND THE MEDIA (4)
PR: COM 403. The relationships between government and the media, with emphasis on current activities of such regulatory agencies as the Federal Communications Commission, the Federal Trade Commission and other commissions; the courts, the Congress and the Executive; examination of media and industry codes and standards.

COM 414. ADVERTISING CAMPAIGNS (4)
PR: COM 312, 313. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting and media schedules.

COM 417. ADVERTISING PRACTICUM (2)
PR: Senior standing and CI. For selected Advertising Sequence majors. Practical experience outside the classroom in a live advertising situation where the student works for academic credit under the tutelage of a professional practitioner.

COM 425. MAGAZINE PLANNING AND PRODUCTION (4)
PR: COM 325, 371, 375. Research in new magazine design and production techniques; training in the creative use of typography, photography, art work, text in the “area concept”; letterpress and offset production; financial management of magazines; preparation of a detailed dummy for a model magazine.

COM 427. MAGAZINE PRACTICUM (2)
PR: Senior standing and CI. For selected Magazine Sequence majors. Practical experience outside the classroom in a live magazine or industrial publication situation where the student works for academic credit under the tutelage of a professional practitioner.

COM 433. NEWS EDITING I (4)
PR: COM 330. Evaluating news and its display; editing and rewriting copy for the mass media, with emphasis on the daily newspaper; news judgment, headlines, makeup; ethical problems.

COM 434. NEWS EDITING II (4)
PR: COM 433. Continuation of COM 433, with more intensive practice on the copydesk in evaluating, processing, editing and headlining live wire copy and local copy; experimental makeup; managing the copy desk. Current events and analysis of selected daily newspapers.

COM 435. PUBLIC AFFAIRS REPORTING (4)
PR: COM 331 or COM 362. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

COM 437. EDITING PRACTICUM (2)
PR: Senior standing, COM 434, and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in a daily newspaper copydesk, where the student works for academic credit under the tutelage of a professional news editor.

COM 439. SEMINAR: CONTEMPORARY NEWSPAPER PROBLEMS (4)
PR: Senior standing and COM 434, COM 435 or CI. A study of
the role of the free press in a democratic society and its efforts to fulfill its social and ethical obligations by analyses and discussions of the problems which face the reporter, the editor, and the publisher. (Formerly COM 539.)

COM 441. WRITING FOR PUBLIC RELATIONS (4)
PR: COM 330, 341. Persuasive writing techniques unique to the practice of public relations; application of principles and ethical practices to problem-solving situations drawn from case studies; writing formats used in promotional and publicity literature.

COM 447. PUBLIC RELATIONS PRACTICUM (2)
PR: Senior standing and CI. For selected Public Relations Sequence majors. Practical experience outside the classroom in a professional public relations situation where the student works for academic credits under the tutelage of a professional practitioner.

COM 449. PUBLIC INFORMATION (4)
PR: COM 441 or CI. The nature of government public information organization, practices and criticisms thereof; the role of information specialists in reporting government at all levels to the public; conceptual differences in approach and techniques between governmental and private sector public relations. (Formerly COM 541.)

COM 450. ADVANCED CAMERA TECHNIQUES (4)
PR: COM 354. Advanced camera technology, professional procedures, emulsion selection, color control, studio and location shooting, laboratory methods, matte shooting and special effects.

COM 451. SOCIAL HISTORY OF THE FILM TO 1945 (4)
PR: COM 302 and COM 303. The industrial, technological, philosophical and social factors bearing on the rise and development of the motion picture as a popular art. Intensive study of a series of films through screenings and readings.

COM 452. SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (4)
PR: COM 302 and COM 303. A continuation of COM 451, covering the development of the film from 1945 to the present. (COM 451 is a prerequisite.)

COM 453. THE DOCUMENTARY FILM (4)
PR: Sophomore standing. The development of the documentary movement; earliest newsreels; Flaherty, Grierson and the GPO Unit, U.S. Government-sponsored films, the Canadian Film board, Cinema Verite; study of about 60 fact-films from some 20 countries. Stresses objective criteria, critical analysis.

COM 454. FILM CRITICISM (4)
PR: COM 330, 451,452, 453, Cl. The film as a mass medium, comparing and contrasting its mass communication aspect with other important aspects. Critical analyses of selected films and intensive readings in the theory of film. Literary, social, dramatic, philosophic and historic approaches to film criticism.

COM 455. ADVANCED FILM LIGHTING (4)
PR: COM 450 or CI. Advanced lighting of studio and location sets stressing professional procedures and standards from pre-production to post-production.

COM 456. SENSITOMETRY AND PHOTOMETRICS (4)
PR: COM 354. The materials and processes of cinema photo; response of materials to development and exposure.

COM 457. CINEMA DYNAMICS (4)

COM 458. FILM DIRECTING (4)
PR: COM 354. Introduction to the techniques of film direction.

COM 461. TV PRODUCTION AND DIRECTION (4)
PR: COM 361 and junior standing. A basic course in the techniques of producing and directing TV programs. (Formerly SPE 441.)

COM 462. ADVANCED TV PRODUCTION AND DIRECTION (4)
PR: COM 461 and junior standing. Intensive study and practice of the techniques of TV production and direction with emphasis on both creative and experimental aspects of TV programming. (Formerly SPE 442.)

COM 463. TV NEWS FILM (4)
PR: COM 362 or CI. Techniques in filming for television news.

COM 465. BROADCAST LAW (4)
PR: COM 361 or CI. A study of the broadcasting industry from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

COM 466. MEDIA CRITICISM: BROADCASTING (4)
PR: COM 361. A critical study of contemporary broadcast content. (Formerly COM 482.)

COM 467. TV PRACTICUM (2)
PR: COM 461 or CI. The study, rehearsal and production of television programs and materials. (Formerly SPE 443.)

COM 468. THE BROADCAST PROGRAM (4)
PR: COM 361. Program concepts, resources, costs, selection and scheduling. Analysis of programming in terms of structure, appeals and strengths.

COM 471. COLOR PHOTOGRAPHY (4)
PR: COM 372 or CI. Development of knowledge and skills of color photography for publication and presentation. Emphasis will be on the use of transparency and negative color materials in their application to the media. Laboratory required.

COM 481. INDIVIDUAL RESEARCH IN MASS COMMUNICATION (1-4)
PR: CC and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

COM 483. SELECTED TOPICS IN MASS COMMUNICATION STUDIES (1-4)
PR: Junior standing. Courses designed to meet current or specific topics of interest to the instructor and students.

COM 485. DIRECTED READING IN MASS COMMUNICATION STUDIES (1-4)
PR: Junior standing, CC and CI. Reading and directed study in special topics.

COM 491. SENIOR SEMINAR: INTERCOMMUNICATION—THE MASS MEDIA IN PERSPECTIVE (4)
PR: Senior standing; open only to Mass Com. majors. The inter-relationships among the mass media and institutions; their effect upon each other and upon contemporary society.

FOR SENIORS AND GRADUATE STUDENTS

COM 500. THEORY OF MASS COMMUNICATION (4)
PR: Senior standing. The nature of the mass communication process its effects on individuals and groups; the moral, ethical, social and political implications in influencing and directing behavior. Analyses of theories of mass communication.

COM 530. JOURNALISM STUDIES (4)
PR: Senior standing. Not open for credit to COM majors. An intensive review of mass communication theory and practice as they relate to content in secondary school journalism courses, with some emphasis also on supervision of school publications.

COM 550. FILM STUDIES (4)
PR: Senior standing. Not open for credit to COM majors. An intensive review of film theory and practice as they relate to content in secondary school subjects such as English, social studies, history or journalism. Laboratory work.
**MATHematics (MTH)**


**LOWER LEVEL COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 107, 108</td>
<td>MATHEMATICS AND THE MODERN WORLD I, II</td>
<td>(4,4)</td>
<td>Illustrates the relationship of mathematics to our world and puts the development of mathematics in a historical perspective.</td>
</tr>
<tr>
<td>MTH 109, 110</td>
<td>FUNCTIONAL MATHEMATICS I, II</td>
<td>(4,4)</td>
<td>Designed as a terminal course for general cultural purposes. Explores the language of mathematics through the study of logic and set theory.</td>
</tr>
<tr>
<td>MTH 122. COLLEGE ALGEBRA</td>
<td></td>
<td>(4)</td>
<td>Real numbers and their properties, algebraic expressions, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Credit for students with credit in MTH 101 or MTH 211.</td>
</tr>
<tr>
<td>MTH 123. COLLEGE TRIGONOMETRY</td>
<td></td>
<td>(3)</td>
<td>Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. Credit for students with credit in MTH 101.</td>
</tr>
<tr>
<td>MTH 211. ELEMENTARY CALCULUS I</td>
<td></td>
<td>(4)</td>
<td>PR: One year of secondary school mathematics or CC. Basic Algebraic concepts, real numbers, functions, graphs. The sequence MTH 211-212-213 is primarily for students from Biological Sciences, Social Sciences, and Business. Credit for calculus majors or students with credit in MTH 122.</td>
</tr>
<tr>
<td>MTH 212. ELEMENTARY CALCULUS II</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 211 or CC. The derivative, techniques of differentiation, curve sketching, applications of the derivative. Credit for Mathematics majors or students with credit in MTH 302 or MTH 351.</td>
</tr>
<tr>
<td>MTH 213. ELEMENTARY CALCULUS III</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 212. Antiderivatives, the definite integral, techniques of integration, logarithmic and exponential functions, application. Credit for Mathematics majors or students with credit in MTH 303 or MTH 352.</td>
</tr>
</tbody>
</table>

**UPPER LEVEL COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 302. CALCULUS I</td>
<td></td>
<td>(5)</td>
<td>PR: MTH 122, 123 with a grade of &quot;C&quot; or better or CC. Limits, derivatives, applications. Credit for students with credit in MTH 212 or MTH 351.</td>
</tr>
<tr>
<td>MTH 303. CALCULUS II</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 302 with a grade of &quot;C&quot; or better or CC. Antiderivatives, the definite integral, applications, log, exponential, and trig functions. Credit for students with credit in MTH 213 or MTH 352.</td>
</tr>
<tr>
<td>MTH 304. CALCULUS III</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 303 with a grade of &quot;C&quot; or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and improper integrals. Credit for students with credit in MTH 353.</td>
</tr>
<tr>
<td>MTH 305. CALCULUS IV</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 304 with a grade of &quot;C&quot; or better or CC. Vectors in 3-space, partial derivatives, multiple integrals, infinite series. Credit for students with credit in MTH 354.</td>
</tr>
<tr>
<td>MTH 309. SET THEORY</td>
<td></td>
<td>(3)</td>
<td>PR: MTH 302 or CC. Relations, functions, order, cardinal numbers.</td>
</tr>
<tr>
<td>MTH 310. ELEMENTARY PROBABILITY</td>
<td></td>
<td>(4)</td>
<td>Counting techniques, probability, expectation, probability distributions, the law of large numbers. Credit for Mathematics majors. Credit for department of Biology majors.</td>
</tr>
<tr>
<td>MTH 311. MATRICES AND APPLICATIONS</td>
<td></td>
<td>(4)</td>
<td>Vectors and matrices with applications selected from linear programing, game theory and graph theory. Emphasis on applications to business and the social sciences. Credit for all science majors except Mathematics.</td>
</tr>
<tr>
<td>MTH 323. LINEAR ALGEBRA</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 302 or CC. Vectors, matrices, systems of linear equations, linear transformations.</td>
</tr>
<tr>
<td>MTH 331. NUMBER SYSTEMS</td>
<td></td>
<td>(5)</td>
<td>The counting numbers, their properties and operations. The integers, their properties and operations. Prime numbers, modular arithmetic. Rational numbers, their properties and operations. Credit for science majors.</td>
</tr>
<tr>
<td>MTH 332. BASIC ALGEBRAIC CONCEPTS</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 331. Equations, systems of equations and inequalities. The real numbers as a complete ordered field. Complex numbers. Credit for science majors.</td>
</tr>
<tr>
<td>MTH 333. INFORMAL GEOMETRY</td>
<td></td>
<td>(4)</td>
<td>Concepts of length, congruence, similarity, transformations in the plane. Ruler and compass constructions, impossible constructions coordinate systems, graphs, lines and curves. Credit for science majors.</td>
</tr>
<tr>
<td>MTH 345. INTRODUCTORY STATISTICS I</td>
<td></td>
<td>(5)</td>
<td>Hypothesis testing, estimation; normal, Chi-square, t, F, binomial, multinomial, distributions; ANOVA, CR, RCB designs; single df, regression, correlation, contingency tables. Students who successfully complete this course may not also receive credit for either ECN 331-431 Business and Economic Statistics or SSU 301 Social Science Statistics.</td>
</tr>
<tr>
<td>MTH 346. INTRODUCTORY STATISTICS II</td>
<td></td>
<td>(5)</td>
<td>PR: MTH 345 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin square, Split Plots, incomplete blocks designs; distribution free methods.</td>
</tr>
<tr>
<td>MTH 351. ENGINEERING CALCULUS I</td>
<td></td>
<td>(4)</td>
<td>PR: Pass diagnostic tests in algebra and trigonometry. Differentiation, limits, differentials, extrema, indefinite integral. Credit for students with credit in MTH 302 or MTH 212.</td>
</tr>
<tr>
<td>MTH 352. ENGINEERING CALCULUS II</td>
<td></td>
<td>(4)</td>
<td>PR: MTH 351. Definite integral, trigonometric functions, log, exponential, and trig functions.</td>
</tr>
</tbody>
</table>
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exponential, applications. (No credit for students with credit in MTH 303 or MTH 213).

MTH 353. ENGINEERING CALCULUS III (3)
PR: MTH 352. Techniques of integration, numerical methods, analytic geometry, polar coordinates, vector algebra, applications. (No credit for students with credit in MTH 304).

MTH 354. ENGINEERING CALCULUS IV (3)
PR: MTH 353. Multivariate calculus, series, applications. (No credit for students with credit in MTH 305.)

MTH 401. DIFFERENTIAL EQUATIONS (4)
PR: MTH 305. First order linear and nonlinear differential equations, higher order linear equations, applications.

MTH 405. ADVANCED CALCULUS I (3)
PR: MTH 305 with a grade of "C" or better. Concepts of limit, continuity, differentiation, and integration of functions in one and several variables. Major topics include partial differentiation, Riemann-Stieltjes integrals, improper integrals, infinite series, uniform convergence, implicit-function theorems, line and surface integrals.

MTH 406. ADVANCED CALCULUS II (3)
PR: MTH 405. Continuation of MTH 405.

MTH 407. ADVANCED CALCULUS III (3)

MTH 420. ELEMENTARY ABSTRACT ALGEBRA (3)
PR: MTH 309 or CC. Groups, rings integral domain, fields, integers, the rational, real and complex number systems.

MTH 423. GEOMETRY I (3)
PR: MTH 302. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.

MTH 424. GEOMETRY II (3)
PR: MTH 423. Continuation of MTH 423.

MTH 431. VECTOR ANALYSIS (3)
PR: MTH 305. The algebra and calculus of vectors, applications, general coordinates, introduction to tensor analysis.

MTH 445. INTRODUCTORY PROBABILITY THEORY I (3)
PR: MTH 305 and MTH 309 or CC. Probability spaces, discrete and continuous probability distributions, expectations.

MTH 446. INTRODUCTORY PROBABILITY THEORY II (3)
PR: MTH 445. Joint distributions, sums of random variables, weak and strong laws of large numbers, limit theorems.

MTH 447. NUMERICAL ANALYSIS I (4)
PR: MTH 323; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

MTH 448. NUMERICAL ANALYSIS II (4)
PR: MTH 401 and 447. Continuation of MTH 447.

MTH 471. THE SCOPE AND SIGNIFICANCE OF MATHEMATICS (4)
PR: Senior or junior standing. Students having completed MTH 302 are not eligible to enter this course. The development of mathematical thought and its application to the physical world, the social sciences, and the fine arts, emphasizing the importance and meaning of mathematics in contemporary culture. No credit for mathematics majors.

MTH 483. SELECTED TOPICS IN MATHEMATICS (1-6)
PR: CI. The course content will depend on the interest of faculty members and student demand.

FOR SENIORS AND GRADUATE STUDENTS

MTH 501. ADVANCED DIFFERENTIAL EQUATIONS I (4)
PR: MTH 323, MTH 401 or CC. Existence and uniqueness of solutions, oscillation and comparison theorems, asymptotic behaviour of solutions, stability, perturbation theory, applications.

MTH 502. ADVANCED DIFFERENTIAL EQUATIONS II (4)

MTH 510. ELEMENTARY MATHEMATICAL LOGIC (3)
PR: CC. Truth tables, tautologies, quantifiers, rules of inference, informal proofs in mathematics.

MTH 511. ADVANCED LINEAR ALGEBRA (4)
PR: MTH 309, 323 or CC. Vector spaces, linear independence, dimension, matrices, linear transformations.

MTH 513. REAL ANALYSIS I (4)

MTH 514. REAL ANALYSIS II (4)
PR: MTH 513. Continuation of MTH 513.

MTH 515. CALCULUS ON MANIFOLDS (4)
PR: MTH 511 and 514. Calculus of several variables.

MTH 520. COMPLEX ANALYSIS I (4)
PR: MTH 405. Complex numbers, analytic function and mappings, integrals.

MTH 521. COMPLEX ANALYSIS II (4)
PR: MTH 520. Power series, residues and poles, conformal mapping.

MTH 523. ALGEBRA I (4)
PR: MTH 305, 309, 511. An introduction to group theory.

MTH 524. ALGEBRA II (4)
PR: MTH 523. An introduction to Galois theory.

MTH 525. APPLIED STATISTICAL METHODS I (4)
PR: MTH 445, CC. Statistical inference in physical and engineering sciences utilizing sample probability distributions, point and interval estimation and test of significance. 3 lecture periods and 1 lab period.

MTH 526. APPLIED STATISTICAL METHODS II (4)
PR: MTH 525. Applications of analysis of variance and covariance, regression analysis use of x² for contingency tables and goodness of fit procedures. 3 lecture periods and 1 lab period.

MTH 531. TOPOLOGY I (4)

MTH 532. TOPOLOGY II (4)
PR: MTH 531. Continuation of MTH 531.

MTH 535. TENSOR ANALYSIS (3)
PR: MTH 431 or CC. The calculus of tensors, applications to differential geometry and physics.

MTH 537. SPECIAL FUNCTIONS (3)
PR: MTH 401. Orthogonal functions, the gamma functions, Bessel functions, applications.

MTH 539. FOURIER ANALYSIS (3)
PR: MTH 305 or CC. Trigonometric Fourier series, orthogonal systems, convergence of trigonometric Fourier series, operations on Fourier series.

MTH 540. COMPLEX ANALYSIS AND APPLICATIONS (3)
PR: MTH 305 or CC. Complex numbers, analytic and harmonic functions, power series, contour integrals, residues and poles with emphasis on applications.

MTH 541. PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS (3)
PR: MTH 401 and CC. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.

MTH 542. METHODS OF APPLIED MATHEMATICS (3)

MTH 543. INTEGRAL TRANSFORMS I (4)
PR: MTH 401, 405, or CC. Introduction to integral transforms
with special emphasis on the Laplace and Fourier transforms, applications to differential equations.

MTH 554. INTEGRAL TRANSFORMS II (4)
PR: MTH 543. Continuation of MTH 543.

MTH 545. PROBABILITY THEORY I (4)
PR: MTH 406 or MTH 513. Concepts of probability theory, axioms of probability, random variables, probability distributions and distributions of functions of stochastic variables.

MTH 546. PROBABILITY THEORY II (4)

MTH 547. MATHEMATICAL STATISTICS I (3)
PR: MTH 546. Sample distribution theory, point & interval estimation theory and theory of hypothesis testing.

MTH 548. MATHEMATICAL STATISTICS II (3)
PR: MTH 547. Statistical decision theory to include admissibility of Bayes rules, risk functions, minimax invariant rules and most powerful tests.

MTH 549. STOCHASTIC PROCESS (3)

MTH 550. NON-PARAMETRIC STATISTICS I (3)
PR: MTH 547, CC. Theory and methods of non-parametric statistics, order statistics, tolerance region and their applications.

MTH 551. NUMBER THEORY (4)
PR: CC. Congruences, quadratic residues, selected topics.

MTH 553. INTRODUCTION TO GRAPH THEORY (3)
PR: CC. Brief introduction to classical graph theory (4-color conjecture, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

MTH 555. MATRIX COMPUTATIONS (3)

MTH 556. ASYMPTOTIC METHODS (3)
PR: MTH 501 or 542 and MTH 540 or 567. Asymptotic series, applications to differential equations and integrals, and perturbation theory.

MTH 557. MATHEMATICAL OPTIMIZATION THEORY I (3)

MTH 558. MATHEMATICAL OPTIMIZATION THEORY II (3)
PR: MTH 557 or CC. Theory of nonlinear programming, Convexity, duality, and optimality criteria. Convergence of solution algorithms. Unconstrained optimization and search techniques.

MTH 560. ANALYSIS OF ALGORITHMS (4)
PR: MTH 448 or CC. Mathematical Theory associated with algorithms for computer information processing; expected time and space requirements of algorithms, comparison of algorithms, construction of potional algorithms, theory, underlying particular algorithms.

MTH 561. ANALYSIS OF ALGORITHMS II (4)
PR: MTH 560. Continuation of MTH 560.

MTH 563. ANALYSIS OF NUMERICAL METHODS I (4)

MTH 564. ANALYSIS OF NUMERICAL METHODS II (4)
PR: MTH 563. Continuation of MTH 563.

MTH 571. GEOMETRY FOR TEACHERS (3)
PR: MTH 423 and 424 and bachelor’s degree or CC. Vectors, measures, perpendicularity and parallelism, properties of geometric figures, induction and deduction. (No credit for Math. majors.)

MTH 573. ABSTRACT ALGEBRA FOR TEACHERS (3)
PR: MTH 323 and MTH 420 and bachelor’s degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for Math. majors.)

MTH 574. COMPLEX VARIABLES FOR TEACHERS (3)
PR: MTH 305 and MTH 420 and bachelor’s degree or CC. Algebra and geometry of the complex numbers, functions of a complex variable, limits, derivatives, integrals, elementary functions and their geometry, fundamental theorem of algebra. (No credit for Math. majors.)

MTH 575. MATHEMATICAL ANALYSIS I FOR TEACHERS (3)
PR: MTH 305 and bachelor’s degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Math. majors.)

MTH 576. MATHEMATICAL ANALYSIS II FOR TEACHERS (3)
PR: MTH 575 or CC. Advanced considerations of the definite integral, fundamental theorem of calculus, infinite series. (No credit for Math. majors.)

MTH 583. SELECTED TOPICS (1-6)
PR: Senior or junior standing and CC. Each topic is a course of study. 01-History of Mathematics, 03-Logic and Foundations, 05-Number Theory, 07-Topics in Algebra, 09-Mathematics for Physics, 11-Topics in Probability and Statistics, 13-Topics in Analysis, 15-Topics in Topology.

FOR GRADUATE STUDENTS ONLY

MTH 603. THEORY OF ORDINARY DIFFERENTIAL EQUATIONS I (4)
PR: MTH 501 or CC. Existence theorems, topics in oscillation theory, asymptotic behavior, stability and boundedness of solutions of differential equations.

MTH 604. THEORY OF ORDINARY DIFFERENTIAL EQUATIONS II (4)
PR: MTH 603. Continuation of MTH 603.

MTH 605. MEASURE AND INTEGRATION I (3)

MTH 606. MEASURE AND INTEGRATION II (3)
PR: MTH 605. Continuation of MTH 605.

MTH 607. MEASURE AND INTEGRATION III (3)
PR: MTH 606. Continuation of MTH 606.

MTH 611. COMPLEX ANALYSIS I (3)

MTH 612. COMPLEX ANALYSIS II (3)
PR: MTH 611. Continuation of MTH 611.

MTH 613. COMPLEX ANALYSIS III (3)
PR: MTH 612. Continuation of MTH 612.

MTH 614. INTRODUCTION TO FUNCTIONAL ANALYSIS I (4)

MTH 615. INTRODUCTION TO FUNCTIONAL ANALYSIS II (4)
PR: MTH 614. Continuation of MTH 614.

MTH 624. ADVANCED ALGEBRA I (4)
PR: MTH 524 or CC. Algebraic automata theory.
MTH 625. ADVANCED ALGEBRA II (4)
PR: MTH 624 or CC. Algebraic coding theory.

MTH 632. ADVANCED TOPOLOGY I (4)
PR: MTH 552 and CC. Function spaces, compactifications, covering spaces, other topics.

MTH 633 ADVANCED TOPOLOGY II (4)
PR: MTH 632. Continuation of MTH 632.

MTH 635. ALGEBRAIC TOPOLOGY (3)
PR: MTH 633 or CC. Homotopy, homology groups, local homology groups.

MTH 636. TOPOLOGICAL ALGEBRA I (4)
PR: MTH 635 and CC. Topological semigroups, topological groups, topological rings and fields, Haar measure.

MTH 637. TOPOLOGICAL ALGEBRA II (4)
PR: MTH 636. Continuation of MTH 636.

MTH 639. DIFFERENTIAL GEOMETRY (3)
PR: CC. Local differential geometry, curvature, evolutes and involutes, calculus of variations.

MTH 641. TOPICS IN NUMBER THEORY I (3)
PR: MTH 524 or CC. Continued fractions, approximations of irrational numbers, lattices, geometric theory, algebraic numbers, density of sequences of integers, analytic number theory, the prime number theorem.

MTH 642. TOPICS IN NUMBER THEORY II (3)
PR: MTH 641. Continuation of MTH 641.

MTH 643. PARTIAL DIFFERENTIAL EQUATIONS I (4)
PR: MTH 551 or CC. Classification of second order equations, Cauchy problems, Dirichlet and Neumann problems, mixed problems, properties of solutions.

MTH 644. PARTIAL DIFFERENTIAL EQUATIONS II (4)
PR: MTH 643. Continuation of MTH 643.

MTH 645. ADVANCED PROBABILITY THEORY I (3)
PR: MTH 606 or CC. Measure theoretic approach to probability, random variables, distribution functions, expectation and characteristic functions.

MTH 646. ADVANCED PROBABILITY THEORY II (3)
PR: MTH 645. Convergence of sequence of random variables, weak and strong laws of large numbers, limit theory of probability distributions.

MTH 648. ADVANCED MATHEMATICAL STATISTICS (3)

MTH 649. STOCHASTIC PROCESS II (3)
PR: MTH 549 or CC. Continuous parameter Markov chains, martingale theory, stationary processes with discrete and continuous increments.

MTH 650. NON-PARAMETRIC STATISTICS II (3)
PR: MTH 550 or CC. Theory and applications of advanced non-parametric methods to include order statistics Kolmokoror-Smirnon and Cramer statistics.

MTH 651. LOGIC AND FOUNDATIONS I (4)
PR: CC. Propositional calculus, Post's theorem, first order and equality calculi, models, completeness and consistency theorems. Godel's theorem, recursive functions.

MTH 652. LOGIC AND FOUNDATIONS II (4)
PR: MTH 651. Continuation of MTH 651.

MTH 653. TIME SERIES ANALYSIS I (3)
PR: MTH 547. Basic concepts of the theory and applications of time series analysis to include filtering, forecasting modeling, spectral analysis of univariate realizations with applications. (Formerly MTH 554.)

MTH 654. TIME SERIES ANALYSIS II (3)
PR: MTH 653. Multivariate time series analysis of stationary process to include the theory of filtering, forecasting and spectral analysis.

MTH 655. TRIGONOMETRIC SERIES I (3)
PR: MTH 514. Selected Topics in Fourier Series and summability, orthogonal polynomials, almost periodic functions, completeness of sets of functions.

MTH 656. TRIGONOMETRIC SERIES II (3)
PR: MTH 655. Continuation of MTH 655.

MTH 657. CALCULUS OF VARIATIONS (4)
PR: MTH 514 and CC. Maxima and minima of functionals, problems of Lagrange, Bolza and Mayer and other topics.

MTH 659. ALGEBRAIC NUMBER THEORY (4)
PR: MTH 524 or CC. Algebraic number fields, algebraic integers, basic and discriminant of algebraic number fields, ideals, decomposition of ideals. Theorem of Minkowski, Applications of Galois Theory to the Theory of Ideals, Units.

MTH 662. MULTIVARIATE STATISTICAL ANALYSIS I (3)
PR: MTH 653. The multivariate normal, estimation of mean vector and covariance matrix, correlation analysis, generalized T²-statistics and testing of the general linear hypothesis. (Formerly MTH 562).

MTH 671. MATHEMATICAL OPTIMIZATION THEORY III (3)
PR: MTH 558 or CC, MTH 615. Linear programming in abstract spaces; integer programming; stochastic programming. Recent research in mathematical programming and related areas.

MTH 673. PARTIAL DIFFERENCE EQUATIONS (4)

MTH 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

MTH 683. SELECTED TOPICS (1-6)
PR: CC. 01-Topology, 02-Analysis, 03-Algebra, 04-Applied Mathematics, 05-Graph Theory, 06-Number Theory, 07-Physics for Physicists, 08-Probability, 09-Statistics, 10-Complex Analysis.

MTH 688. RECENT ADVANCES IN MATHEMATICS WITH EMPHASIS ON THEIR IMPACT ON COLLEGE-LEVEL COURSES (1-6)
A course designed to consider and study the recent developments of mathematics, especially those developments that have an effect on altering the basic concepts and ideas of mathematics and imply a change in the presentation of introductory material in the field. (Credit not applicable toward thesis degree requirements.) (S/U only.)

MTH 691. GRADUATE SEMINAR (1-6)
Direction of this seminar is by a faculty member. Students are required to present research papers from the literature. (S/U only.)

MTH 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

MTH 695. GRADUATE RESEARCH METHODS (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

MTH 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

MTH 781. DIRECTED RESEARCH (credit varies)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

MTH 799. DISSERTATION: DOCTORAL (credit varies)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)
MEDICAL TECHNOLOGY (MET)

Director: E. D. Olsen; Professors: E. D. Olsen, W. S. Silver; Associate Professor: J. R. Linton.

UPPER LEVEL COURSES

MET 311. INTRODUCTION TO MEDICAL TECHNOLOGY (1)
PR: Senior standing and acceptance into an approved affiliated hospital. An introduction to the principles and practices of medical technology and their relationship to patient care. A hospital internship course for medical technology majors.

MET 431. CLINICAL MICROSCOPY I (5)
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.

MET 432. CLINICAL MICROSCOPY II (5)
PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MET 431. A hospital internship course for medical technology majors.

MET 442. HEMATOLOGY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction in the methods of study of hematological disorders. A hospital internship course for medical technology majors.

MEDICINE

Course listings for the College of Medicine may be found under the appropriate departmental headings: Anatomy, Biochemistry, Comprehensive Medicine, Family Medicine, Medical Microbiology, Medicine, Obstetrics and Gynecology, Ophthalmology, Pathology, Pediatrics, Pharmacology, Physiology, Psychiatry, Radiology, and Surgery.

Anatomy
Chairperson: H. N. Schnitzlein; Professor: H. N. Schnitzlein; Associate Professor: J. J. Dwornik; Assistant Professors: R. K. Boler, Sr., H. K. Brown, T. M. Holt, N. A. Moore, E. G. Salter, Jr.; Instructors: S. F. Chopin, M. F. Nolan

MED 600. GROSS ANATOMY (7)
PR: Admission to College of Medicine.

MED 602. MICROSCOPIC ANATOMY (4)
PR: Admission to College of Medicine.

MED 603. NEUROANATOMY (4)
PR: Admission to College of Medicine.

MED 604. ANATOMY SEMINAR (0)
PR: Consent of Chairman, Department of Anatomy.

MED 701. REGIONAL ANATOMY I—Head and Neck (5)
PR: Enrolled in College of Medicine.

MED 702. REGIONAL ANATOMY II—Thorax, Abdomen, Pelvis and Perineum (5)
PR: Enrolled in College of Medicine.

MED 703. REGIONAL ANATOMY III—Extremities (5)
PR: Enrolled in College of Medicine.

MED 704. SYSTEMIC ANATOMY (20)
PR: Enrolled in the College of Medicine.

MED 705. MEDICAL DEVELOPMENT ANATOMY AND TERATOLOGY (5)
PR: Enrolled in College of Medicine.

MED 706. ADVANCED NEUROANATOMY (5)
PR: Enrolled in College of Medicine.

MED 707. ADVANCED MICROSCOPIC ANATOMY (5)
PR: Enrolled in College of Medicine.

MED 708. APPLIED NEUROANATOMY (10)
PR: Enrolled in College of Medicine.

MED 451. CLINICAL BACTERIOLOGY (8)
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in the techniques and procedures for use in clinical chemical analyses. A hospital internship course for medical technology majors.

MED 453. CLINICAL CHEMISTRY I (9)
PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MET 453, including procedures required for serology, transfusions, blood preservation, and antibody studies. A hospital internship course for medical technology majors.

MED 454. CLINICAL CHEMISTRY II (9)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital internship course for medical technology majors.

MED 485. CLINICAL LABORATORY INSTRUMENTAL ANALYTICAL TECHNIQUES (2)
PR: Senior standing and acceptance into an approved affiliated hospital.

MED 609. METHODS OF ELECTRON MICROSCOPY IN MEDICAL RESEARCH (4)
PR: MSG 601-MSG 606, MSG 608, MSG 610 or consent of Chairman.

MED 610. NEURAL CORRELATES OF BEHAVIOR (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 611. COMPARATIVE NEUROANATOMY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 612. HUMAN EMBRYOLOGY (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 614. COMPARATIVE HEMATOLOGY (3)
PR: MSG 601-MSG 607, 608, or consent of Chairman.

MED 615. ANATOMICAL ILLUSTRATIONS AND METHODS (3)
PR: MSG 601-MSG 606, MSG 607, 608, 610 or consent of Chairman.

MED 616. HISTORY OF ANATOMY (2)
PR: MSG 601-MSG 606 or consent of Chairman.

Biochemistry

MED 605. BIOCHEMISTRY (9)
PR: Admission to College of Medicine.

MED 606. BIOCHEMISTRY SEMINAR (0)
PR: Consent of Instructor.

MED 788. RESEARCH IN BIOCHEMISTRY (10)
PR: Enrolled in College of Medicine.

MED 789. MOLECULAR BASIS OF METABOLIC REGULATION (5)
PR: Admitted to College of Medicine.
FOR GRADUATE AND MEDICAL STUDENTS

MSG 603. CORE COURSE IN MEDICAL BIOCHEMISTRY (7)
PR: Admission to Ph.D. Program in Medical Sciences.

MSG 619. METABOLIC BASIS OF HUMAN DISEASE (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 657. BIOLOGICAL MEMBRANES-STRUCTURE AND FUNCTION (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 658. LIPID METABOLISM AND REGULATION (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 659. MACROMOLECULAR METABOLISM (4)
PR: MSG 601-MSG 606 or consent of Chairman.

Comprehensive Medicine
Chairperson: O. Barrett; Professors: O. Barrett, R. J. Loiselle; Associate Professors: M. M. Rath; Assistant Professor: W. M. Tucker

Family Medicine
Chairperson: D. R. Howard; Professor: D. R. Howard; Associate Professor: C. E. Aucremann; Assistant Professor: E. F. Ciliberto.

MED 711. OUT-PATIENT FAMILY MEDICINE (20)
PR: Enrolled in College of Medicine.

MED 712. IN-PATIENT FAMILY MEDICINE (10)
PR: Enrolled in College of Medicine.

Interdisciplinary
MED 700. EXTRAMURAL CLERKSHIP (10-20)
PR: Enrolled in College of Medicine.

MED 763. PERINATOLOGY (10-20)
PR: Enrolled in College of Medicine.

MED 764. PEDIATRIC CARDIOLOGY (10)
PR: Enrolled in College of Medicine.

MED 765. PHYSIOLOGICAL BASIS OF CARDIOLOGY (10)
PR: Enrolled in College of Medicine.

MED 766. RESEARCH AND CLINICAL EXPERIENCE IN ALLERGY (20)
PR: Enrolled in College of Medicine.

MED 777. DEPARTMENTAL OVERVIEWS (5-20)
PR: Enrolled in College of Medicine.

FOR GRADUATE AND MEDICAL STUDENTS

MSG 781. DIRECTED RESEARCH (credit varies)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

MSG 783. SELECTED TOPICS (1-4)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 791. GRADUATE SEMINAR (1)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 799. DISSERTATION: DOCTORAL (credit varies)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

Medical Microbiology
Chairperson: C. W. Fishel; Professor: C. W. Fishel; Associate Professors: D. G. Halkias, L. J. Paradise; Assistant Professors: R. J. Grasso, T. W. Klein, G. J. Lanzc, W. M. LeFor, A. L. Winters; Instructor: S. Pross.

MED 607. MEDICAL MICROBIOLOGY (9)
PR: Admission to College of Medicine.

MED 608. MEDICAL MICROBIOLOGY SEMINAR (0)
PR: Consent of Chairman, Department of Medical Microbiology.

MED 727. EXPERIMENTAL ONCOLOGY (20)
PR: Enrolled in College of Medicine.

MED 728. CLINICAL MICROBIOLOGY (10)
PR: Enrolled in College of Medicine.

FOR GRADUATE AND MEDICAL STUDENTS

MSG 604. CORE COURSE IN MEDICAL MICROBIOLOGY (7)
PR: Admission to Ph.D. Program in Medical Sciences.

MED 617. DIAGNOSTIC MICROBIOLOGY (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 618. RESEARCH PLANNING AND METHODS (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 620. CELLULAR IMMUNOLOGY (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 621. ADVANCES IN IMMUNOLOGY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 622. IMMUNOCHEMISTRY (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 623. ADVANCES IN VIROLOGY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 624. MICROBIAL PHYSIOLOGY AND GENETICS (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 626. REGULATORY CONTROL MECHANISMS IN ANIMAL CELL SYSTEMS (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 627. HOST-PARASITE INTERACTIONS (3)
PR: MSG 601-MSG 606 or consent of Chairman.

Internal Medicine

MED 619. INTRODUCTION TO MEDICINE (14)
PR: Admission to College of Medicine.

MED 621. PHYSICAL DIAGNOSIS (5)
PR: Admission to College of Medicine.

MED 624. MEDICINE CLERKSHIP (20)
PR: Admission to College of Medicine.

MED 739. ADVANCED GENERAL MEDICINE EXTERNSHIP (12)
PR: Enrolled in College of Medicine.

MED 741. CLINICAL CARDIOLOGY (12)
PR: Enrolled in College of Medicine.

MED 742. ELECTROCARDIOGRAPHIC INTERPRETATION (10)
PR: Enrolled in College of Medicine.

MED 743. CLINICAL DERMATOLOGY (10)
PR: Enrolled in the College of Medicine.

MED 744. CLINICAL ENDOCRINOLOGY AND METABOLISM (10)
PR: Enrolled in College of Medicine.

MED 745. GASTROENTEROLOGY ELECTIVE (10-20)
PR: Enrolled in College of Medicine.

MED 746. HEMATOLOGY-ONCOLOGY (10)
PR: Enrolled in College of Medicine.

MED 747. INFECTIOUS DISEASE (10)
PR: Enrolled in College of Medicine.

MED 748. ADVANCED CLINICAL NEUROLOGY (10)
PR: Enrolled in College of Medicine.

MED 749. CLINICAL NEPHROLOGY (10)
PR: Enrolled in College of Medicine.
MED 750. CLINICAL ALLERGY AND PULMONARY DISEASE (10-20)
PR: Enrolled in College of Medicine.

MED 785. MEDICINE IN THE TROPICS (20)
PR: Enrolled in College of Medicine.

**Obstetrics/Gynecology**

Chairperson: J. M. Ingram; Professor: J. M. Ingram; Associate Professors: C. J. Hochberg, C. L. Lay; Assistant Professors: A. M. Messina, B. S. Verkauf, R. L. Vermillion.

MED 628. OBSTETRICS-GYNECOLOGY CLERKSHIP (13)
PR: Admission to College of Medicine.

MED 713. GYNECOLOGIC ONCOLOGY (10)
PR: Enrolled in College of Medicine.

MED 714. RESEARCH IN OBSTETRICS-GYNECOLOGY (10)
PR: Enrolled in College of Medicine.

MED 715. PREPARATION FOR PRACTICE (10-20)
PR: Enrolled in College of Medicine.

MED 716. THE INFERTILE COUPLE (10)
PR: Enrolled in College of Medicine.

**Ophthalmology**


MED 717. TUTORIAL COURSE OF ADVANCED OPHTHALMOLOGY (20)
PR: Enrolled in College of Medicine.

MED 718. MEDICAL OPHTHALMOLOGY (5)
PR: Enrolled in College of Medicine.

MED 784. NEURO OPHTHALMOLOGY (5)
PR: Enrolled in College of Medicine.

**Pathology**


MED 617. PATHOLOGY (16)
PR: Admission to College of Medicine.

MED 618. PATHOLOGY SEMINAR (0)
PR: Consent of Chairman, Department of Pathology.

MED 620. LABORATORY MEDICINE (4)
PR: Admission to College of Medicine.

MED 729. ELECTIVE IN LABORATORY MEDICINE (CHEMISTRY, HEMATOLOGY) (10)
PR: Enrolled in College of Medicine.

MED 730. PATHOLOGIC ANATOMY (AUTOPSIES AND SURGICAL PATHOLOGY) (20-40)
PR: Enrolled in College of Medicine.

MED 731. SURGICAL PATHOLOGY (10)
PR: Enrolled in College of Medicine.

MED 732. EXPERIMENTAL PATHOLOGY (20)
PR: Enrolled in College of Medicine.

**FOR GRADUATE AND MEDICAL STUDENTS**

MSG 606. CORE COURSE IN PATHOLOGY (7)
PR: Admission to the Ph.D. Program in Medical Sciences.

MSG 628. HUMAN SYSTEMIC PATHOLOGY (4)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 629. BIOCHEMICAL PATHOLOGY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MSG 630. IMMUNOPATHOLOGY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

**PFGR 631. ADVANCED GROSS PATHOLOGY**
PR: MSG 601-MSG 606 or consent of Chairman.

**PFGR 632. ADVANCED MICROSCOPIC PATHOLOGY**
PR: MSG 601-MSG 606 or consent of Chairman.

**PFGR 633. ELECTRON MICROSCOPY OF DISEASE STATES**
PR: MSG 601-MSG 606 or consent of Chairman.

**PFGR 634. AUTORADIOGRAPHIC TECHNIQUES**
PR: MSG 601-MSG 606 or consent of Chairman.

**PFGR 660. ANIMAL RESEARCH METHODS**
PR: MSG 601-MSG 606 or consent of Chairman.

**Pediatrics**


MED 626. PEDIATRICS CLERKSHIP (13)
PR: Admission to College of Medicine.

MED 719. OUTPATIENT PEDIATRICS, TAMPA GENERAL HOSPITAL (10)
PR: Enrolled in College of Medicine.

MED 720. INPATIENT PEDIATRICS, TAMPA GENERAL HOSPITAL (10)
PR: Enrolled in College of Medicine.

MED 721. OUTPATIENT PEDIATRICS, CHILDREN'S HOSPITAL (10)
PR: Enrolled in College of Medicine.

MED 722. INPATIENT PEDIATRICS, CHILDREN'S HOSPITAL (10)
PR: Enrolled in College of Medicine.

MED 723. NEONATAL RESEARCH (20)
PR: Enrolled in College of Medicine.

MED 724. NEONATOLOGY (10)
PR: Enrolled in College of Medicine.

MED 725. METABOLIC DISEASE RESEARCH (10)
PR: Enrolled in College of Medicine.

MED 726. PEDIATRIC ENDOCRINOLOGY (10-20)
PR: Enrolled in College of Medicine.

MED 787. RESEARCH IN PEDIATRIC MEDICINE AND GENETICS (20)
PR: Enrolled in College of Medicine.

**Pharmacology**


MED 609. PHARMACOLOGY (9)
PR: Admission to College of Medicine.

MED 610. PHARMACOLOGY SEMINAR (0)
PR: Consent of Chairman, Department of Pharmacology.

MED 733. CLINICAL PHARMACOLOGY (5)
PR: Enrolled in College of Medicine.

MED 734. IMMUNOPHARMACOLOGY (1½)
PR: Enrolled in College of Medicine.

MED 735. PULMONARY PHARMACOLOGY (5)
PR: Enrolled in College of Medicine.

MED 736. DRUG METABOLISM AND PHARMACOGENETICS (5)
PR: Enrolled in College of Medicine.

**FOR GRADUATE AND MEDICAL STUDENTS**

MSG 605. CORE COURSE IN PHARMACOLOGY (7-14)
PR: Admission to Ph.D. program in Medical Sciences.
Physiology


MED 611. MEDICAL PHYSIOLOGY (9)
PR: Admission to College of Medicine.

MED 612. PHYSIOLOGY SEMINAR (0)
PR: Consent of Chairman, Department of Physiology.

MED 737. RESEARCH IN PHYSIOLOGY (5-40)
PR: Enrolled in College of Medicine.

MED 738. CARDIO-PULMONARY-RENAL PHYSIOLOGY (5)
PR: Enrolled in College of Medicine.

FOR GRADUATE AND MEDICAL STUDENTS

MED 602. CORE COURSE IN PHYSIOLOGY (7)
PR: Admission to Ph.D. Program in Medical Sciences.

MED 644. KIDNEY, FLUIDS AND ELECTROLYTES (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 645. RESPIRATION (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 646. ENDOCRINE MECHANISMS (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 647. NEUROPHYSIOLOGY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 648. NERVE, MUSCLE AND SYNAPSE (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 649. CARDIAC MUSCLE (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 650. SMOOTH MUSCLE (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 651. SKELETAL MUSCLE (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 652. PERIPHERAL CIRCULATION (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 653. CARDIOVASCULAR REGULATION (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 654. CARDIOPULMONARY CIRCULATION (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 655. HEMODYNAMICS (3)
PR: MSG 601-MSG 606 or consent of Chairman.

MED 656. PHYSIOLOGICAL BASIS OF CARDIOLOGY (3)
PR: MSG 601-MSG 606 or consent of Chairman.

Psychiatry


MED 614. BIOSTATISTICS (1)
PR: Admission to College of Medicine.

MED 615. INTRODUCTION TO PSYCHIATRY (3)
PR: Admission to College of Medicine.

MED 616. PSYCHIATRY SEMINAR (0)
PR: Consent of Chairman, Department of Psychiatry.

MED 627. PSYCHIATRY CLERKSHIP (13)
PR: Admission to College of Medicine.

MED 770. PSYCHIATRY LIAISON SERVICE ROUNDS (5)
PR: Enrolled in College of Medicine.

MED 771. PSYCHIATRIC ILLNESS—BACKGROUNDS AND ORIGINS (5)
PR: Enrolled in College of Medicine.

MED 773. ELECTIVE IN CHILD PSYCHIATRY (10)
PR: Enrolled in College of Medicine.

MED 775. PSYCHIATRIC RESEARCH TECHNIQUES (10)
PR: Enrolled in College of Medicine.

MED 776. INTRODUCTION TO PSYCHOSOMATIC MEDICINE (5)
PR: Enrolled in College of Medicine.

MED 778. QUANTITATIVE MODELS IN PSYCHIATRY AND PSYCHOPATHOLOGY (10)
PR: Enrolled in College of Medicine.

MED 779. FORENSIC PSYCHIATRY (10)
PR: Enrolled in College of Medicine.

MED 782. PRINCIPLES OF PSYCHIATRIC THERAPY (5)
PR: Enrolled in College of Medicine.

MED 792. ADVANCED CLERKSHIP IN PSYCHIATRY (10-20)
PR: Enrolled in College of Medicine.

Radiology


MED 676. GENERAL RADIOLOGY (10-20)
PR: Enrolled in College of Medicine.

MED 678. GENERAL AND SPECIALTY RADIOLOGY (10-20)
PR: Enrolled in College of Medicine.

Surgery


MED 625. SURGERY CLERKSHIP (20)
PR: Admission to College of Medicine.

MED 751. GENERAL SURGERY ELECTIVE (20)
PR: Enrolled in College of Medicine.

MED 752. GENERAL SURGERY PRECEPTORSHIP (11)
PR: Enrolled in College of Medicine.

MED 753. RENAL TRANSPLANTATION ELECTIVE (20)
PR: Enrolled in College of Medicine.

MED 754. ANESTHESIOLOGY ELECTIVE (11)
PR: Enrolled in College of Medicine.
MED 757. OTOLARYNGOLOGY ELECTIVE
PR: Enrolled in College of Medicine.

MED 758. OTOLARYNGOLOGY PRECEPTORSHIP
PR: Enrolled in College of Medicine.

MED 759. PLASTIC SURGERY PRECEPTORSHIP
PR: Enrolled in College of Medicine.

MED 760. THORACIC SURGERY ELECTIVE
PR: Enrolled in College of Medicine.

MED 761. CLINICAL UROLOGY ELECTIVE
PR: Enrolled in College of Medicine.

MED 786. ORTHOPEDIC ELECTIVE
PR: Third year student enrolled in College of Medicine.

MED 790. NEUROSURGERY ELECTIVE
PR: Admission to College of Medicine.

MILITARY SCIENCE (MIS)

MIS 102. INTRODUCTION TO MILITARY SCIENCE (4)

MIS 170. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 171. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 172. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 273. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 274. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 275. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 301. FUNDAMENTALS OF LEADERSHIP (4)
PR: MIS 102; HTY 313, or CI. The dual role of the military officer as leader and manager; problems of military leadership in the volunteer army; examination of classical leadership traits and principles, and the role of officers in the various branches of the Army.

MIS 310. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 311. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 401. SEMINAR IN LEADERSHIP AND MANAGEMENT (4)
PR: MIS 301. CI. Obligations and responsibilities of a commissioned officer, with emphasis on application of sound leadership to all situations. Uniform Code of Military Justice and its relation to civilian law; Fundamentals of both offensive and defensive tactics and role of various branches of the Army in tactical operations. Role of the U.S. in world affairs in the 1970's.

MIS 410. LEADERSHIP LABORATORY (0)
PR: CI.

MIS 411. LEADERSHIP LABORATORY (0)
PR: CI.

MUSIC (MUS)

MUS 101. RUDIMENTS OF MUSIC (3)
Open only to non-music majors; development of skills in hearing and performing music and in basic notation.

MUS 201, 202, 203. MUSIC THEORY (3,3,3)
PR: CI. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis of examples from all historical periods of music literature.

MUS 204. APPLIED MUSIC (3)
PR: CI. Required of all applied music majors; open to a limited number of non-music majors by audition only. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit.

MUS 205. INTRODUCTION TO ELECTRONIC MUSIC (3)
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.

MUS 206. CLASS PIANO (2)
PR: CI. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MUS 207. SECONDARY APPLIED MUSIC (1)
PR: CI. One-half hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of non-music majors who have had prior musical training. Course is open by audition only.


LOWER LEVEL COURSES

Sec. 001 Violin
002 Viola
003 Violoncello
004 Double Bass
005 Flute
006 Oboe
007 Clarinet
008 Saxophone
009 Bassoon
010 French Horn
011 Trumpet
012 Trombone/Baritone
013 Tuba
014 Percussion
015-021 Voice
022-025 Piano
026 Harp
027 Clarinet
002 Viola
003 Violoncello
004 Double Bass
006 Oboe
007 Clarinet
009 Bassoon

Sec. 002 Sec. 005

MUS 790. NEUROSURGERY ELECTIVE
PR: Admission to College of Medicine.

MUS 791. NEUROSURGERY ELECTIVE
PR: Third year student enrolled in College of Medicine.

MUS 792. NEUROSURGERY ELECTIVE
PR: Enrolled in College of Medicine.
MUS 208. COMPOSITION (3)
PR: Cl. Required of music majors with an area emphasis of Composition; class instruction in original composition; may be repeated for credit.

MUS 221, 222, 223. AURAL THEORY (2,2,2)
PR: Cl. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUS 201, 202, 203.

MUS 231, 232, 233. INTRODUCTION TO MUSIC LITERATURE (2,2,2)
PR: MUS 201 or concurrent enrollment. A survey of representative music examplars of the past and present with emphasis upon the study of styles and form. Required for music majors.

UPPER LEVEL COURSES
MUS 301, 302, 303. MUSIC THEORY (3,3,3)
PR: MUS 203. Required of music majors; continuation of MUS 201-203.

MUS 304. APPLIED MUSIC (3)
PR: Necessary competency at MUS 204 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 four quarters only.

PR: MUS 205 and Cl. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory of analog music synthesis; technical basis of analog systems design and construction.

MUS 308. COMPOSITION (3)
PR: MUS 203 and MUS 205 and Cl. Class instruction in original composition. Required of composition majors. May be repeated for credit four quarters only.

MUS 309, 310, 311. CONTEMPORARY TECHNIQUES OF COMPOSITION (3,3,3)
PR: Cl. 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.

MUS 312. IMPROVISATION (1)
PR: MUS 203 and Cl: A course of study designed to acquaint the student with basic improvisational techniques; emphasis on performance. May be repeated for credit.

MUS 321, 322, 323. ADVANCED AURAL THEORY (2,2,2)
PR: Cl. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sightsinging. To be taken concurrently with MUS 301, 302, 303.

MUS 326. BASIC CONDUCTING (2)
PR: Cl. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

MUS 371. ISSUES IN MUSIC (2)
Open only to non-music majors; lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer. (S/U only)

MUS 372-373. THE ENJOYMENT OF MUSIC (3,3)
Open only to non-music majors; a study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music; Section 001 of MUS 372 is for students who are majoring in dance, theatre arts, and visual arts.

MUS 374. MAJOR PERFORMING ORGANIZATIONS (1)
PR: Cl. 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.

MUS 376. HISTORY OF POPULAR MUSIC (2)
Popular music in the U.S. from 1820 to the present. Units on the big band era, country and western, jazz, black music, and the rock scene beginning in 1955. May be used for University General Distribution Requirement by the non-major, and may be used to satisfy part of the 9 hours in-College Requirement for Fine Arts majors in Art, Dance, and Theatre.

MUS 401, 402, 403. MUSIC HISTORY (3,3,3)
PR: Cl. Required of music majors; a survey of the historical development of musical styles and of the music representative of those styles.

MUS 404. APPLIED MUSIC (3)
PR: Necessary competency at MUS 304 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 four quarters only.

MUS 405, 406, 407. ELECTRONIC MUSIC—DIGITAL SYNTHESIS (3,3,3)
PR: MUS 205 and Cl. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.
MUS 408. COMPOSITION
PR: Necessary competency at MUS 308 level determined by faculty jury examination. Required of music majors with an area emphasis of composition; private instruction in original composition; may be repeated for credit four quarters.

MUS 410, 411. ORCHESTRATION
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. (Formerly MUS 510, MUS 511.)

MUS 412. MUSIC STUDIO PEDAGOGY
PR: CI. May be elected by undergraduate music majors; emphasis on the business management of the music studio, the musical responsibilities of the studio teacher, the techniques of private instruction. May be repeated for credit for a maximum of 6 hours for the same section. (Formerly MUS 512.)

Sec. 001 Strings Sec. 004 Piano
002 Winds & Percussion 005 Class Piano
003 Voice

MUS 421. SIXTEENTH CENTURY PRACTICE
PR: MUS 303. 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.

MUS 426. CHORAL CONDUCTING
PR: MUS 326 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.

MUS 427. INSTRUMENTAL CONDUCTING
PR: MUS 326 & CI. A study of those techniques of conducting unique to instrumental music ensembles: Baton technique, score reading, terminology, rehearsal management.

MUS 431. EIGHTEENTH CENTURY PRACTICE
PR: MUS 303. 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.

MUS 441. TWENTIETH CENTURY PRACTICE
PR: MUS 303. 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.

MUS 453. MUSIC SENIOR SEMINAR
PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (S/U only.)

MUS 454. APPLIED MUSIC
PR: Necessary competency at MUS 404 level determined by faculty jury examination. Required of all applied music majors. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. Must be repeated for credit for a minimum of 9 hours for majors. (Formerly MUS 504.)

Sec. 001 Violin Sec. 010 French Horn
002 Viola 011 Trumpet
003 Violoncello 012 Trombone/Baritone
004 Double Bass 013 Tuba
005 Flute 014 Percussion
006 Oboe 015-021 Voice
007 Clarinet 022-025 Piano
008 Saxophone 026 Harp
009 Bassoon

MUS 455, 456, 457. ELECTRONIC MUSIC—REAL-TIME PERFORMANCE
PR: MUS 307 and 407 or equivalent. Composition for analog and digital equipment for real-time performance applications; sound synthesis, interfacing electronics with conventional instruments, in-performance-directed composition, and design and construction of electronic composing/performing machines; use of scores, system flexibility and event-detail prediction. (Formerly MUS 505, 506, 507.)

MUS 458. COMPOSITION
PR: Necessary competency at MUS 408 level determined by faculty jury examination. Required of music majors with an area emphasis of Composition; private instruction in original composition. Must be repeated for credit for a minimum of 9 hours for majors. (Formerly MUS 508.)

MUS 459. SEMINAR IN NEW MUSICAL SYSTEMS
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. (Formerly MUS 509.)

MUS 481. DIRECTED STUDY
PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 483. SELECTED TOPICS IN MUSIC
PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

MUS 485. DIRECTED READING
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.

FOR SENIORS AND GRADUATE STUDENTS

MUS 500. GRADUATE REVIEW OF MUSIC THEORY
PR: Cl for Credit. This course is a prerequisite to Critical Analysis (MUS 601-602-603) and involves a study of basic theoretical concepts from all periods in music history. The practical application of these concepts includes composition, aural and visual analysis. The course will not serve as a requirement toward the degree.

MUS 561. MASTER CLASSES
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. Sec. 001 Piano Sec. 003 Strings
002 Voice

MUS 562. MUSIC WORKSHOPS
PR: CI. Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students. Sec. 001 Band Sec. 004 Orchestra
002 Chamber Music 005 String
003 Chorus

MUS 581. DIRECTED STUDY
PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

FOR GRADUATE STUDENTS ONLY

MUS 601, 602, 603. CRITICAL ANALYSIS OF MUSIC REPERTORY
PR: CI. Required of music theory majors; study of the development of musical styles in western civilization from Antiquity to the present; includes analysis and performance of representative works.

MUS 604. APPLIED MUSIC
PR: Necessary competency determined by faculty jury
Instructors: Assistant Professors: NAS
Dean: Fletcher, MUS orchestral music; analysis and study of major works from a stylistic
MUS 608. SEMINAR IN COMPOSITION (4) PR: CI. Composition of music for any media; discussion of problems presented by the most current ideas in composition; evaluation of new music in seminar context. May be repeated for credit.
MUS 609, 610. MUSICAL ACOUSTICS (4, 4) PR: CI. Required of music theory majors; study of the nature and transmission of sound, the hearing process, tuning and temperament; includes principles of electronic sound reproducers and basic concepts of architectural acoustics.
MUS 611, 612, 613. KEYBOARD REPERTORY (3, 3, 3) PR: CI. A study of style, history and performance practice in keyboard repertoire including masterworks of all periods.
MUS 614, 615, 616. SONG LITERATURE (3, 3, 3) PR: CI. Solo song literature from the 17th century through the contemporary with emphasis on German lied, French songs, and contemporary English and American songs; special emphasis on performance.
MUS 617. SOLO VOCAL LITERATURE IN ORATORIO (4) PR: CI. A survey of literature for the solo voice in oratorio from the 17th century to the present. Includes allied forms such as solo voice in cantatas and orchestra music.
MUS 618. SYMPHONIC LITERATURE (5) PR: CI. A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective.
MUS 619, 620. OPERA LITERATURE (4, 4) PR: CI. A chronological study of the development of opera from 1600 to the present; emphasis on the technical, stylistic, and performance aspects of opera.
MUS 621. TWENTIETH CENTURY MUSIC LITERATURE (5) PR: CI. A study of the compositional techniques of composers from Debussy to the present; emphasis on counterpoint, harmonic structure, tonality, atonality, polytonality, texture, and serial technique.
MUS 622, 623, 624. CHORAL LITERATURE AND CONDUCTING (6, 6, 6) PR: CI. Combination of seminar, classroom and laboratory

NATURAL SCIENCES (NAS)

UPPER LEVEL COURSES
NAS 409. SCIENCE AND HUMAN LIFE I (4) The role of science in society. The manner in which science is organized, how it operates, its harmonious and conflicting
types of experiences designed to provide depth in stylistic study of choral music literature and performance.
MUS 625. SEMINAR IN CONDUCTING (3) PR: CI. Intensive study of conducting techniques with emphasis on interpretation of music scores and application in laboratory sessions.
Sec. 001 Choral
MUS 626, 627, 628. TEACHING OF MUSIC THEORY (4, 4, 4) PR: CI. Comparative study of teaching techniques, procedures, and materials used in teaching the individual student in performance.
MUS 629. STUDIO TEACHING SEMINAR (3) PR: Graduate standing in performance and CI; emphasis on techniques used in teaching the individual student in performance.
MUS 630. CHAMBER MUSIC LITERATURE (5) PR: CI. A survey and stylistic analysis of chamber music repertory from 1700 through the present day; emphasis on aural recognition of representative works.
MUS 674. MAJOR ENSEMBLE PERFORMANCE (1) PR: CI. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments; may be repeated for credit.
Sec. 001 University Orchestra Sec. 005 Wind Ensemble 002 University Singers 006 Wind Ensemble 003 Opera Workshop 007 University Band 004 Choral Union 901 University Community Chorus
MUS 675. CHAMBER ENSEMBLE PERFORMANCE (1) PR: CI. Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano; may be repeated for credit.
MUS 681. DIRECTED RESEARCH (credit varies) PR: GR. Master's level. Repeatable. (S/U only.)
MUS 691. GRADUATE SEMINAR (2) PR: CC. May be repeated to a maximum of six credits.
MUS 694. GRADUATE INSTRUCTION METHODS (1-5) Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
MUS 695. GRADUATE RESEARCH METHODS (1-5) Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
MUS 698. GRADUATE RECITAL (3) PR: CC.
MUS 699. THESIS: MASTER'S (credit varies) Repeatable. (S/U only.)

Dean: G. R. MacDonald; Professor: G. R. MacDonald; Associate Professors: F. Carbonell, M. Hayes, J. Sasmor; Assistant Professors: M. Boostrom, N. Entreklin, J. Fanning, S. Fletcher, L. Lloyd, J. Rackow, B. Redding, A. Slatter; Instructors: A. Grillot, H. Guiss, N. Gunter, B. Mauger, R. Stiehl.

NURSING (NUR)

UPPER LEVEL COURSES
NUR 300. COMMUNITY HEALTH RESOURCES (3) PR: Admission to nursing major or permission of faculty. Study of health resources in the community including voluntary and official health agencies. Consideration will be given to preventive and maintenance services as well as to
hospitals and other institutional components of medical care. Also, will consider the roles, responsibilities, and relationships of personnel in the various health occupations with whom nurses work. Instruction will be multidisciplinary with seminars and selected field work experience.

NUR 301. HUMAN ANATOMY (4)
PR: BIO 201-202-203 (or equivalents). A course in basic human anatomy including cellular and organ system relationships as a foundation for normal and abnormal function. Lec.-lab.

NUR 302. NUTRITION (3)
PR: BIO 201-202-203 and CHM 211-212-213 (or equivalents). The study of normal and therapeutic nutrition for all age groups from infancy through senescence. Considers the effects of cultural, religious and socioeconomic factors in defining and modifying food patterns of individuals and groups.

NUR 303. NURSING PROCESS I (4)
PR: Admission to nursing major. An overview of the development of nursing and trends which will influence future practice. Attention will be directed to emerging roles and responsibilities of professional nurses in providing health services to individuals and families and relationships of nurses to clients and other health care personnel. Lec.-discussion sessions and related extra-class activities.

NUR 304. HUMAN PHYSIOLOGY (5)
PR: BIO 201, 202, 203 and CHM 211, 212, 213 (or equivalents). Basic functional features of the normal human body considered on a systematic basis. General content includes the cell and functional organization of the body, the function of the body systems, and limited attention to deviations from normal and application to nursing practice. Lec.-lab.

NUR 305. NURSING PROCESS II (3)
PR: NUR 303. Restricted to nursing majors. An introduction to the nursing process with emphasis on the initial phase of assessment of the health status of individuals seeking care in ambulatory settings. Opportunities are provided for continuing development of group process and interviewing skills as tools in the assessment process in nursing. Learning experiences include the application of biopsychosocial concepts and the utilization of selected psychomotor skills in nursing intervention with non-hospitalized individuals.

NUR 306. SEMINAR IN NURSING I (2)
PR: Preceding courses required for the nursing major or permission of faculty. This seminar provides opportunities for students to correlate various learning experiences, to exchange experiences and raise questions for group and faculty exploration. It serves as a vehicle for introducing nursing audit and peer review of nursing practice and as a means of dealing with the human problems characteristic of nursing practice. Issues, trends, legal aspects, management, and leadership principles will be considered within the framework of internal and external forces which structure nursing and determine its role in society. (S/U only.)

NUR 307. NURSING CORE I (5)
PR: Preceding courses required for the nursing major or permission of faculty. Nursing core courses are designed to enable progressive acquisition of concepts, knowledge, and skills essential to clinical nursing practice by building on previous general education, supporting and nursing courses. This sequence will be developed within the framework of the concepts of health to illness within the family. Content will include the family as a system, crises within the system, and developmental tasks throughout the life span.

The student will continue development of the nursing process with particular emphasis on the intervention and planning phases based on theory in pathophysiology, pharmacology, and epidemiology.

NUR 308. NURSING INTERVENTION I (5)
PR: Preceding courses required for the nursing major or permission of faculty. This course involves the application of theoretical material in a clinical setting that will include care of hospitalized and non-hospitalized individuals of all ages who represent various levels of wellness and illness. Opportunities are provided for continuing development of the skills in the nursing process.

NUR 309. SEMINAR IN NURSING II (2)
PR: Preceding courses required for the nursing major or permission of faculty. Description same as NUR 306 Seminar in Nursing I. (S/U only.)

NUR 310. NURSING PROCESS LABORATORY (3)
PR or concurrent: NUR 305. Junior standing in nursing or permission of faculty. A student self-paced learning laboratory course directed toward development of competence in selected psychomotor and biopsychosocial assessment skills. Also, selected experiences in ambulatory care settings to facilitate application of assessment skills. (S/U only.)

NUR 340. BIOPSYPHOSOCIAL PATHOLOGY (4)
PR: NUR 302, 304, or equivalent. Interferences in biopsychosocial organization and function and the ways in which disruptions manifest themselves in signs, symptoms, physical and laboratory findings.

NUR 350. CONCEPTUAL FRAMEWORK FOR PROFESSIONAL NURSING PRACTICE (4)
PR: RN students only or permission of the faculty. Exploration of the major concepts underlying professional nursing practice, the trends and issues relating to the role and responsibility of nursing in the health care system, and introduction to the nursing process.

NUR 351. CLIENT ASSESSMENT (5)
PR: NUR 340 or concurrent registraton. RN students only. Expands knowledge and skills essential for biopsychosocial assessment of needs of clients and families in primary, secondary, or tertiary care settings.

NUR 352. PLANNING, IMPLEMENTING, AND EVALUATING NURSING INTERVENTION (4)
PR: NUR 305, 351 or concurrent registration. RN students only. Focuses on using assessment skills as basis for planning, implementing, and evaluating nursing intervention for multi-problem clients in both distributive and episodic settings.

NUR 353. NURSING PRACTICUM I (5)
PR: NUR 352 or concurrent registration. RN students only. Clinical practice providing experience in application of the nursing process with selected multi-problem clients in selected distributive and/or episodic care settings. (S/U only.)

NUR 400. NURSING CORE II (5)
PR: Preceding courses for the nursing major or permission of faculty. Continuing development of the nursing process with particular emphasis on the evaluation phase. Concepts of leadership and the role of the professional nurse as a change agent are emphasized.

NUR 401. NURSING INTERVENTION II (5)
PR: Preceding courses for the nursing major or permission of faculty. Application of theory in a clinical setting with clients of all ages who represent various levels of wellness and illness.

NUR 402. SEMINAR IN NURSING III (2)
PR: Preceding courses required for the nursing major or permission of faculty. Description same as NUR 306 Seminar in Nursing I. (S/U only.)

NUR 403. NURSING INQUIRY I (3)
PR: Nursing majors only. This course will emphasize the relationship between research and the improvement of nursing practice and health care; attention will be directed toward the need for research in nursing, areas currently being investigated, ethical issues, the research process and the implementation of the results of nursing research.

NUR 404. NURSING CORE III (5)
PR: Senior standing in nursing or permission of faculty. Students continue development of the nursing process with
emphasize on synthesis of the four phases based on theory in pathophysiology, pharmacology and epidemiology. Leadership concepts in the total nursing process are introduced.

NUR 405. NURSING INTERVENTION III (5)
PR: Senior standing in nursing or permission of faculty. Application of theoretical knowledges in a clinical setting that will include care of hospitalized and non-hospitalized individuals of all ages who represent various levels of wellness and illness. Provision made for the development of skills in the synthesis of all phases of nursing process as well as utilizing leadership concepts.

NUR 406. SEMINAR IN NURSING IV (2)
PR: Preceding courses required for the nursing major or permission of faculty. Description same as NUR 306 Seminar in Nursing I. (S/U only.)

NUR 407. NURSING CORE IV (3)
PR: Senior standing in nursing or permission of faculty. Students continue development of the nursing process with emphasis on management of nursing assistance to clients.

NUR 408. NURSING INTERVENTION IV (7)
PR: Senior standing or permission of faculty. This final course, in a Nursing Intervention sequence of four, will provide opportunity for concentrated clinical nursing experience under faculty guidance. The nature and goals of the experience will be determined collaboratively by students, faculty, and personnel from the clinical settings where students elect to have this experience. (S/U only.)

NUR 409. SEMINAR IN NURSING V (2)
PR: Preceding courses required for the nursing major or permission of faculty. Description same as NUR 306 Seminar in Nursing I. (S/U only.)

OFF-CAMPUS TERM (OCT)

Director: D. K. Lupton.

UPPER LEVEL COURSES
The following courses are provided for students admitted in the Off-Campus Term Program to work on one of the types of projects indicated.

OCT 401. COMMUNITY INTERACTION (3-5)
A field course for students in the OCT Program utilizing the community as a learning laboratory to develop sensitivity to the problems of our society.

Chairperson: James A. Gould; Professors: J. A. Gould, W. H. Truitt; Associate Professor: B. Silver; Assistant Professors: J. A. Bell, J. C. Harrison, R. Taylor, R. Weatherford.

LOWER LEVEL COURSES

PHI 111. GREAT PHILOSOPHERS OF THE WESTERN WORLD (2)
Lectures and discussions of the great philosophers since Plato, focusing on particular problems.

PHI 112. PHILOSOPHIC CONTROVERSIES (2)
A discussion of central controversies in philosophy such as the nature of love, violence, freedom, truth, morality, etc.

PHI 113. PRACTICAL LOGIC (2)
Elementary theory and application of logical fallacies, deductive and inductive logic. Not for majors.

UPPER LEVEL COURSES

PHI 301. BASIC PHILOSOPHY I: GOD AND REALITY (4)
An introduction to the major philosophical problems in religion, metaphysics, and the philosophy of mind.

PHI 303. LOGIC (5)
Language analysis and classical and modern formal logic, including the logic of classes and propositions, and discussion of philosophical issues.

PHI 304. SCIENTIFIC METHOD (4)
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

PHI 311. BASIC PHILOSOPHY II: VALUE AND SOCIETY (4)
An introduction to the major philosophical problems in ethics, aesthetics, and social political philosophy.

PHI 317. BASIC PHILOSOPHY III: KNOWLEDGE AND SCIENCE (4)
An introduction to the major philosophical problems in methodology, epistemology, and the philosophy of science.

PHI 321. ETHICS (4)
An examination of the writing of the philosophers: Plato, Aristotle, Kant, Sartre, etc., about moral problems and principles.

PHI 333. ANCIENT AND MEDIEVAL PHILOSOPHY (4)
A survey of philosophy from Thales through the medieval writers.

PHI 334. RENAISSANCE AND MODERN PHILOSOPHY (4)
A survey of philosophy from the Renaissance through Kant.
PHI 335. RECENT PHILOSOPHY (4)
A survey of philosophy from Kant through nineteenth century philosophy.

PHI 341. PHILOSOPHY OF RELIGION (4)
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy. (Formerly PHI 411.)

PHI 351. EXISTENTIALISM (4)
A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge. (Formerly PHI 407.)

PHI 377. SOCIAL PHILOSOPHY (4)
An analysis of rival theories of social order and their philosophical foundations.

PHI 378. PHILOSOPHIES OF THE CITY (3)
A study of the current issues in the philosophy of the city including the nature of community, alienation and the city, art and the city, political philosophy of the city, the city and business, nature versus the city, the city and beauty, etc. . . .
For majors and non-majors.

PHI 381. DIRECTED STUDY (1-5)
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 383. SELECTED TOPICS (1-5)
PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 405. CONTEMPORARY PHILOSOPHY (4)
PR: 8 hours or CI. Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHI 406. ANALYTICAL PHILOSOPHY (4)
PR: 8 hours, PHI 303. A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.

PHI 408. PHILOSOPHY OF MARXISM (4)

PHI 409. CLASSICAL CHINESE PHILOSOPHY (4)
PR: PHI 301 or 311 or 317 or CI. Examination of the major classical Chinese philosophers from the sixth century through the third century B.C.

PHI 410. CONTEMPORARY CHINESE PHILOSOPHY (4)
PR: PHI 301 or 311 or 317 or CI. A critical examination of the ideas of Lin Piao, Hu-Shih, Mao Tse-Tung, Sun Yat-Sen, Chiang Kai-Shek, Lin Yu-Tang and other selected materials.

PHI 413. AMERICAN PHILOSOPHY (4)
Major traditions in American thought—Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy—in relation to American culture.

PHI 415 PLATO (4)
PR: 8 hours of Philosophy or CI. The examination of Plato will include the dialogues Protagoras, Gorgias, Meno, Republic, etc.

PHI 416. ARISTOTLE (4)
PR: 8 hours of Philosophy or CI. Study of Aristotle's philosophy.

PHI 421 PHILOSOPHY OF MIND (4)
PR: 8 hours of philosophy or CI. A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problem of other minds, the physical basis for intelligence, etc.

PHI 422 AESTHETICS (4)
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content as well as art and morality.

PHI 425. KANT (4)
PR: 8 hours of Philosophy or CI. Lecture and discussions of Kant's philosophy, especially The Critique of Pure Reason.

PHI 453. THEORY OF KNOWLEDGE (4)
PR: 8 hours of Philosophy, PHI 317, or CI. An examination of human knowledge, its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

PHI 461. ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY (3)
A survey of political philosophy from 6 B.C. until 1600 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHI 463. MODERN POLITICAL PHILOSOPHY (3)
A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHI 465. CONTEMPORARY POLITICAL PHILOSOPHY (3)
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHI 481. DIRECTED STUDY (1-5)
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 483. SELECTED TOPICS (1-5)
PR: CI. Selected topics according to the needs of the senior students. Approval slip from instructor required.

FOR SENIORS AND GRADUATE STUDENTS

PHI 507. PHILOSOPHY OF NATURAL SCIENCE (4)
PR: 8 hours or CI. The function of the course is to investigate (1) problems in the methodology of natural science such as the constructing and testing of hypotheses, confirmation and falsification of theories, explanations and the role of laws and models, (2) philosophical implications of the theories of natural science, especially in the areas of space, time, and matter.

PHI 508. PHILOSOPHY OF THE SOCIAL SCIENCES (4)
PR: 8 hours or CI. Philosophic issues arising in the social sciences: value assumptions, laws and theories, models, etc.

PHI 509. SYMBOLIC LOGIC (4)
PR: PHI 303 or CI. Mathematical treatment of formal logic, including methods of proof, quantification, the logic of relations and an introduction to properties of deductive systems.

PHI 511. PHILOSOPHY OF LAW (4)
PR: 8 hours or CI. The nature and function of law, relations between law, morality, and metaphysics, logic of legal reasoning, analysis of fundamental concepts and institutions.

PHI 521. CONTEMPORARY CONTROVERSIES IN PHILOSOPHY OF RELIGION (4)
PR: PHI 411 or CI. A survey of contemporary philosophical problems in religion such as demythologizing, falsification, and the meaning and justification of key concepts. e.g. God, immortality, faith, etc.

PHI 531. PHILOSOPHY OF LANGUAGE (4)
PR: 8 hours of Philosophy, major in linguistics, or CI. An examination of semantical, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage.

PHI 543. PHILOSOPHY OF HISTORY (4)
PR: 8 hours of philosophy, major in history, or CI. A systematic study of historical theories and of the methods of historical explanation. An examination of classical theories from Vico through Herder, Hegel, Marx down to Spengler and Toynbee, etc.
PHI 551. PHENOMENOLOGY AND EXISTENTIALISM (4)  
PR: 8 hours of philosophy or CI. A study of the methodology, epistemology and metaphysics of phenomenology and existentialism, with particular reference to the works of Husserl, Heidegger, Merleau-Ponty, and Sartre.

PHI 571. SEMINAR IN EPistemology I (3)  
PR: Major in philosophy or psychology and CI. This course may be taken more than once for credit with CI and departmental approval.

PHI 572. SEMINAR IN EPistemology II (3)  
PR: Major in philosophy or social science and CI. This course may be taken more than once for credit with CI and departmental approval.

PHI 573. SEMINAR IN METAPHYSICS I (3)  
PR: Major in philosophy or CI. Cosmology. This course may be taken more than once for credit with CI and departmental approval.

PHI 574. SEMINAR IN METAPHYSICS II (3)  
PR: Major in philosophy or CI. A consideration of the theory of reality. This course may be taken more than once for credit with CI and departmental approval.

PHI 575. SEMINAR IN CONTEMPORARY ETHICS (3)  
PR: CI. A study of the central figures and doctrines in Contemporary Ethics. This course may be taken more than once for credit with CI and departmental approval.

PHI 583. SELECTED TOPICS (1-5)  
PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 585. RESEARCH (1-5)  
PR: CI. Individual research supervised by a faculty member. Approval slip from instructor required.

PHI 591. SEMINAR IN THE HISTORY OF PHILOSOPHY (3)  
PR: CI. A study of one or more of the central figures or movements in the history of philosophy. This course may be taken more than once for credit with CI and departmental approval.

FOR GRADUATE STUDENTS ONLY

PHI 607. STUDIES IN THE PHILOSOPHY OF SCIENCE (4)  
PR: Graduate standing or CI. A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. This course may be taken more than once for credit with CI and departmental approval.

PHI 609. STUDIES IN LOGIC (4)  
PR: Graduate standing or CI. Foundations and basic problems of logic. This course may be taken more than once for credit with CI and departmental approval.

PHI 611. STUDIES IN THE PHILOSOPHY OF LAW (4)  
PR: Graduate standing or CI. A study of the metaphysical, ethical, and epistemological bases of law. This course may be taken more than once for credit with CI and departmental approval.

PHI 615. STUDIES IN MAJOR PHILOSOPHICAL SYSTEMS (4)  
PR: Graduate Standing or CI. A detailed study of a metaphysical movement. This course may be taken more than once for credit with CI and departmental approval.

PHI 621. STUDIES IN PHILOSOPHY OF RELIGION (4)  
PR: Graduate standing or CI. An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval.

PHI 622. STUDIES IN AESTHETICS (4)  
PR: Graduate standing or CI. An analysis of fundamental special problems of aesthetics: value, perception, communication, technique, context. This course may be taken more than once for credit with CI and departmental approval.

PHI 631. STUDIES IN THE THEORY OF MEANING (4)  
PR: Graduate standing or CI. Theory of meaning in relation to theory of truth, reference, identity, and analyticity; with bearings on problems in epistemology, metaphysics, and value. This course may be taken more than once for credit with CI and departmental approval.

PHI 643. STUDIES IN PHILOSOPHY OF HISTORY (4)  
PR: Graduate standing or CI. The analysis of language and logic of historical explanation, historical idealism, historical materialism, positivism, and historical sociology. This course may be taken more than once for credit with CI and departmental approval.

PHI 677. STUDIES IN THE THEORY OF VALUE (4)  
PR: Graduate standing or CI. An analysis and critique of traditional and contemporary theories of value, emphasizing those systems which deal with aesthetic, moral, social, economic, and political values. This course may be taken more than once for credit with CI and departmental approval.

PHI 679. STUDIES IN POLITICAL PHILOSOPHY (4)  
PR: Graduate standing or CI. An examination of the main political philosophies. This course may be taken more than once for credit with CI and departmental approval.

PHI 680. STUDIES IN SOCIAL PHILOSOPHY (4)  
PR: Graduate standing or CI. A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy (all types). This course may be taken more than once for credit with CI and departmental approval.

PHI 681. DIRECTED RESEARCH (credit varies)  
PR: GR. Master’s level. Repeatable. (S/U only.)

PHI 683. SELECTED TOPICS (1-5)  
PR: Graduate standing and CI. Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 691. GRADUATE SEMINAR (4)  
PR: Graduate standing. A seminar in the history of philosophy. The instructor will determine the subject matter.

PHI 694. GRADUATE INSTRUCTION METHODS (1-5)  
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

PHI 699. THESIS: MASTER’S (credit varies)  
Repeatable. (S/U only.)

PHI 141. ARCHERY (2)  
Development and refinement of the essential skills and information necessary for enjoying the sport of Archery. (S/U only.)

PHI 153. BADMINTON (2)  
Progressive experiences in Badminton, fundamental skills, strategy, information, and participation. (S/U only.)

PHI 161. FOLK & SQUARE DANCE (2)  
An opportunity for the development of fundamental skills and
knowledges necessary for enjoyment of Folk and Square Dancing. (S/U only.)

PEB 171. FOIL FENCING
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

PEB 173. GOLF
Progressive experiences in the sport of Golf. Fundamental skills, strategy, information, and participation. (S/U only.)

PEB 175. GYMNASTICS
Progressive experiences in the various gymnastics events. Opportunities to specialize in areas of personal interest. (S/U only.)

PEB 179. TENNIS
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

Dancing. (S/U only.)

Progressive experiences in the sport of Golf. Fundamental skills, strategy, information, and participation. (S/U only.)

Special activities for specific student needs. Activity varies by course section. (S/U only.)

PEB 210. BASKETBALL-VOLLEYBALL
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEB 220. CANOEING
PR: PEB 132 or equivalent. Development and refinement of the skills necessary for enjoying canoeing. Skills, safety techniques, and trips. (S/U only.)

PEB 232. SWIMMING II
PR: PEB 132. Continuation of PEB 132. Special emphasis on development of endurance and efficient stroking. (S/U only.)

PEB 236. LIFE SAVING
PR: PEB 232 or equivalent. Knowledges and skills necessary for saving one's self or others in the event of aquatic emergency. (S/U only.)

PEB 238. SKIN & SCUBA DIVING
PR: PEB 232 or equivalent. Development of the essential skills and knowledges necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)

PEB 240. SYNCHRONIZED SWIMMING
Introductory experiences in synchronized swimming. Emphasis on essential skills; music interpretation; and choreography. (S/U only.)

PEB 250. HANDBALL-PADDLEBALL
Development and refinement of the skills and strategies of Handball and Paddleball with opportunity for competition and tournament play. (S/U only.)

PEB 252. WEIGHT TRAINING
Knowledges and techniques necessary for increasing muscle function. Assessment of status and development of a personal program. (S/U only.)

PEB 254. WRESTLING
Progressive experiences in the sport of Wrestling, Fundamental skills, strategy, information, and participation. (S/U only.)

PEB 270. AEROBICS
Introduction to the knowledges and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PEB 276. WEIGHT CONTROL
Introduction to the knowledges and techniques necessary for effecting a change in body composition. Assessment of status and development of a personal program. (S/U only.)

PEB 290. HUMAN KINESIOLOGY I
An introduction to the structure and function of the skeletal and neuromuscular systems in reference to their support of vigorous human movement. (S/U only.)

PEB 291. HUMAN KINESIOLOGY II
PR: PEB 290. An introduction to the mechanical principles which govern human movement. (S/U only.)

UPPER LEVEL COURSES

PEB 364. WATER SAFETY INSTRUCTION
PR: PEB 236. Examination of the various swimming strokes leading to identification of appropriate methods and techniques for instructing others. ARC certification offered. (S/U only.)

PHYSICAL SCIENCES (PHS)

LOWER LEVEL COURSES

PHS 208. MAN THINKS ABOUT HIS PHYSICAL UNIVERSE
Science is viewed as a creative, intellectual activity. Special emphasis is given to observations, their interpretation, and the development of conceptual models. Topics such as man's conception of his place in the physical universe, the natural motions of objects, the Newtonian Revolution, energy, and the nature and behavior of light, are examined. Some laboratory work. Intended for non-scientists and especially recommended for prospective elementary teachers. No credit for science majors. Qtr. I, III. (Alternating with PHS 212)

PHS 209. THE ECOLOGICAL-ENVIRONMENTAL IMPACT OF GEO-CHEMICAL PHENOMENA
Designed for non-science majors with the content oriented toward stimulating interest and providing for discovering concepts and principles in the geo-chemical changes in the earth and how these changes are related to the environmental ecology. A syllabus is used instead of a conventional textbook. It will be offered only Qtr. III. No credit for science majors.

PHS 210. WAVE MOTION AND SOUND
Basic ideas are explored, including the nature of sound, sources of sound, hearing, noise pollution, and unusual uses of sound. Two or three laboratory exercises will be done. No credit for science majors. Qtr. I, III. (Alternating with PHS 212)

PHS 211. GREAT EXPERIMENTS IN SCIENCE
A descriptive investigation and analysis of the methods of operation and the results of the experiments relative to the impact made upon mankind. The course will be offered Quarters I and IV. For non-majors.

PHS 212. AEROSPACE AND MAN
Man's interaction with aerospace is explored. Included are basic principles of flight, general aviation, the space program and its relation to flying and gliding, and basic rocketry. No credit for science majors. Qtr. II, IV. (Alternating with PHS 210)

PHS 213. CONTROVERSIAL ISSUES IN SCIENCE
A study of several great controversies in science of the past and some of the contemporary controversies now confronting man. Qtr. III only. No credit for Chemistry majors.

PHYSICS (PHY)


LOWER LEVEL COURSES

PHY 201-202. GENERAL PHYSICS AND LABORATORY (4:1) First quarter of 3-quarter sequence of general physics (mechanics, heat, electricity, wave motion, optics, atomic and nuclear physics) and laboratory for science students. Must be taken concurrently. Qtr. I, II, III, IV.


PHY 271. ENERGY AND HUMANITY (4) A non-technical survey of energy forms, sources, present and projected needs, uses and abuses in modern civilization. (For non-majors.) Qtr. I, II, III, IV.

UPPER LEVEL COURSES

PHY 301-302. GENERAL PHYSICS AND LABORATORY (3:1) CR: MTH 302 or MTH 351. First quarter of 3-quarter sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity and magnetism) and laboratory for physics majors and engineering students. Must be taken concurrently. Qtr. I, II, III, IV.


PHY 309. ELECTRICITY AND MAGNETISM I (4) PR: MTH 305 or MTH 354. Electromagnetic circuits; resistance, capacitance, inductance, direct- and alternating-current circuits, thermoelectricity and instrumentation. Laboratory. First quarter of sequence PHY 309-409-419. Qtr. II.

PHY 311. PROBLEMS IN GENERAL PHYSICS I (1) CR: PHY 301. First quarter of three quarter sequence of general physics problems. A course designed to allow those interested students to investigate problems not covered in the general physics course. Lec. Qtr. I, II, III, IV.

PHY 312. PROBLEMS IN GENERAL PHYSICS II (1) CR: PHY 303. Second Quarter of sequence PHY 311-312-313. Qtr. I, II, III, IV.

PHY 313. PROBLEMS IN GENERAL PHYSICS III (1) CR: PHY 305. Third quarter of sequence PHY 311-312-313. Qtr. I, II, III, IV.

PHY 315. MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY (3) PR: One year of non-calculus general physics. CR: MTH 305 or MTH 354. Designed for students who have not had the general physics sequence using calculus. Review of mechanics and electricity emphasizing problems which involve the use of calculus. Qtr. I, III.


PHY 331. OPTICS (4) PR: PHY 305 or PHY 315. CR: MTH 304 or MTH 353. Reflection, refraction, dispersion, interference, diffraction, polarization and laboratory. Qtr. I.

PHY 341. INTERMEDIATE LABORATORY (2) CR: PHY 205 or PHY 205 equivalent. Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena. Qtr. I, III.

PHY 371. CONTEMPORARY PHYSICS (5) PR: Junior standing. A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics or mathematics majors.) Qtr. I, II, III, IV.

PHY 405. STATISTICAL PHYSICS I (3) CR: PHY 323 or PHY 423. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics. First quarter of the sequence PHY 405-406. Qtr. I.

PHY 406. STATISTICAL PHYSICS II (3) PR: 405. Continuation of the sequence PHY 405-406. Qtr. II. (Formerly PHY 505.)

PHY 407. MECHANICS II (3) PR: PHY 307 and MTH 401. Continuation of PHY 307. Motion of a group of particles, coupled oscillators, normal modes, dynamics of rigid bodies. Lagrange's and Hamilton's equations, principle of least action. Qtr. II.


PHY 415. FUNDAMENTAL ACOUSTICS (4) PR: PHY 307 or CI. Vibrations of elastic media, sound generation and propagation. Acoustical, electrical and mechanical energy conversion. Underwater acoustics. Qtr. IV.

PHY 417. MECHANICS III (3) PR: PHY 407. Continuation of PHY 407. Elastic media, the wave equation, transverse and longitudinal wave motion, the diffusion equation, boundary value problems and Fourier series. Fourier integral, fluid dynamics. Qtr. III. (Formerly PHY 507.)

PHY 419. ELECTRICITY AND MAGNETISM III (3) PR: PHY 409. Method of images, Laplace's equation, radiation, transmission, reflection and refraction of electromagnetic waves, guided waves. Third quarter of sequence PHY 309, 409, 419. Qtr. I. (Formerly PHY 509.)

PHY 421. SOLID STATE PHYSICS I (4) PR: 423 or PHY 423; MTH 401. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals insulators and semiconductors. First quarter of sequence PHY 421-521. Qtr. II.

PHY 422. ELECTRONICS FOR RESEARCH (4) PR: General Physics or CI. Direct and alternating current circuits, transients, rectification, amplification; feedback, pulse circuits, and integrated circuits, laboratory. (No credit for physics or mathematics majors.) Qtr. I, III. (Formerly PHY 522.)

PHY 423. MODERN PHYSICS II (3) PR: PHY 323 or CI, MTH 401. Special theory of relativity, statistical distribution functions, angular momentum, system of identical particles, and properties of matter.

PHY 437. QUANTUM MECHANICS I (3) PR: PHY 423 or CI. Wave-particle duality, uncertainty
PHY 441. ADVANCED LABORATORY
PR: PHY 341. Experimental work primarily related to nuclear physics. Emphasis on modern physical experimental techniques employing some of the new types of equipment. Qtr. I, III.

PHY 470. ACOUSTICS (4)
Non-mathematical study of general wave motion and associated phenomena. Acoustic resonance and response of the ear. Introduction to harmonic analysis of complex wave-forms with application to testing with pure tones and various types of waves. Acoustic instrumentation. (No credit for science majors.) Qtr. I, II.

PHY 471. MECHANICS AND HEAT—FINE ARTS (4)
Principles of the mechanics and thermal behavior of solids, liquids, and gases, with descriptions of applications to appropriate art forms and techniques. (No credit for physics or mathematics majors.) Qtr. I (Formerly PHY 571.)

PHY 472. ELECTRICITY AND SOUND—FINE ARTS (4)
Principles of electricity, magnetism, electronics, and sound with descriptions of applications to appropriate art forms and techniques. Laboratory. (No credit for science majors.) Qtr. II. (Formerly PHY 572.)

PHY 473. OPTICS—FINE ARTS (4)
Principles of optics, with descriptions of applications to appropriate art forms and techniques. Laboratory. (No credit for science majors.) Qtr. II.

PHY 481. UNDERGRADUATE RESEARCH (1-6)
PR: Senior or advanced junior standing and CC. Individual experimental work under supervision of instructor. (S/U only.) Qtr. I, II, III, IV.

PHY 483. SELECTED TOPICS IN PHYSICS (1-6)
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

PHY 491. PHYSICS SEMINAR
PR: Senior or advanced junior standing or CC. May be repeated once. (S/U only.) Qtr. I, II, III, IV.

FOR SENIORS AND GRADUATE STUDENTS

PHY 501. NUCLEAR PHYSICS
PR: 437 or CC. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reactions, and high energy physics.

PHY 517. PLASMA PHYSICS I
PR: PHY 419 or CC. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation instabilities. Qtr. IV.

PHY 521. SOLID STATE PHYSICS II

PHY 523. ELECTRONICS
PR: PHY 409 and PHY 341. Vacuum and gas-discharge tubes, semiconductor devices, transistors, electronic circuit analysis and laboratory. Qtr. II.

PHY 537. QUANTUM MECHANICS II
PR: PHY 437 or CC. Matrix mechanics, approximation methods, transformations, scattering and identical particles. Qtr. III.

PHY 541. METHODS OF THEORETICAL PHYSICS
PR: MTH 401 or CC. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space and Dirac notation, elements of vector and tensor analysis, matrices, group representations, eigenvalue problems, and variational calculus. Qtr. I.

PHY 542. METHODS OF THEORETICAL PHYSICS II
PR: MTH 401 or CC. Applications of mathematical techniques to classical and modern physics. Elements of complex analysis including conformal mapping and calculus of residues, Fourier analysis, and transform calculus. Qtr. II.

PHY 543. METHODS OF THEORETICAL PHYSICS III
PR: MTH 401 or CC. Applications of mathematical techniques to classical and modern physics. Orthogonal and special functions, integral equations, Green's functions, methods of data analysis, and approximation techniques. Qtr. III.

PHY 583. SELECTED TOPICS IN PHYSICS
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

FOR GRADUATE STUDENTS ONLY

PHY 601. ATOMIC AND MOLECULAR SPECTRA
PR: PHY 437 or CC. Qualitative study of atomic and molecular structure and spectra. Qtr. IV.

PHY 605. STATISTICAL MECHANICS
PR: PHY 406 or CC. Kinetic theory, configuration and phase space, Boltzmann theorem, Liouville theorem, ensemble theory, quantum statistics. Qtr. III.

PHY 607. CLASSICAL MECHANICS I
PR: PHY 541 or CC. Dynamics of particles and systems of particles, Lagrange's equations, central forces, rigid body dynamics. First quarter of sequence PHY 607-608. Qtr. II.

PHY 608. CLASSICAL MECHANICS II
PR: PHY 607 or CC. Hamilton's equations, canonical transformations, Poisson brackets, small oscillations, Hamilton-Jacobi theory, continuous systems. Qtr. III.

PHY 609. CLASSICAL MECHANICS III
PR: PHY 608 or CC. Advanced topics in mechanics of current interest. Offered on demand.

PHY 617. PLASMA PHYSICS II
PR: PHY 517, or CC. An analytical study of the various types of wave phenomena in plasmas describable by the continuum equations, the Boltzmann-Vislov equation or the Boltzmann equation. Qtr. I.

PHY 621. SOLID STATE PHYSICS III
PR: PHY 521 or CC. Advanced course on Solid State Physics covering material of PHY 521-524. Qtr. III.

PHY 631. ELECTROMAGNETIC THEORY I

PHY 632. ELECTROMAGNETIC THEORY II
PR: PHY 631 or CC. Electromagnetic waves, wave guides and resonant cavities, diffraction, relativistic-electron kinematics and dynamics, plasmas and magnetohydrodynamics. Qtr. II.

PHY 633. ELECTROMAGNETIC THEORY III
PR: PHY 632 or CC. Scattering, radiation, multipole fields, radiation damping, and self-fields. Qtr. III.

PHY 637. QUANTUM MECHANICS III
PR: PHY 537 or CC. Dirac equation, quantized fields, collision theory, symmetry and invariance. Qtr. I.

PHY 641. EXPERIMENTAL PHYSICS
PR: Graduate standing. Laboratory techniques frequently required in experimental research. Includes manipulation of glass, production and measurement of vacua, production and measurement of thin films, and use of various machine tools. Qtr. I.

PHY 651. PHYSICAL APPLICATIONS OF GROUP THEORY
PR: PHY 542 or CC. Introduction to the theory of Lie Groups and Lie Algebras; applications to atomic and molecular physics, solid state physics, nuclear physics, classical physics and elementary particle physics. (Offered alternate years.)
PHY 657. THEORY OF RELATIVITY (4)
PR: PHY 541 or CI. The special and general theory of relativity, including the gravitational field equations, applications of the special theory, experimental tests of the general theory and various topics of current research interest. (Offered alternate years.)

PHY 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

PHY 683. SELECTED TOPICS IN PHYSICS (1-15)
PR: CC. Each topic is a course in directed study under the supervision of a faculty member.

POLITICAL SCIENCE (POL)


LOWER LEVEL COURSES

POL 200. AMERICAN NATIONAL GOVERNMENT (4)
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends. (Formerly POL 201.)

POL 201. STATE AND LOCAL GOVERNMENT AND POLITICS (4)
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes. (Formerly POL 203.)

UPPER LEVEL COURSES

POL 310. INTRODUCTION TO POLITICAL THEORY (4)
Survey of the various kinds of theory used by political scientists for understanding political phenomena. Examination of the principal distinctions, contributions and problems in such theories as normative theory, empirical theory, historicist theory and analytic theory. Open to majors and non-majors.

POL 311. CLASSICAL POLITICAL THEORY (4)
Analysis of basic political ideas from the works of Plato, Aristotle, Cicero, and other leading Greek and Roman political philosophers. (Formerly POL 461.)

POL 315. EMPIRICAL POLITICAL ANALYSIS (4)
An introduction to the conduct of empirical political inquiry and to research methods. Techniques of data generation, collection, and analysis will be emphasized. Laboratory exercises required. (Formerly POL 343.)

POL 320. INTRODUCTION TO COMPARATIVE GOVERNMENT AND POLITICS (4)
Analysis of political systems using the concepts and methods of comparative politics. (Formerly POL 311.)

POL 330. INTRODUCTION TO INTERNATIONAL RELATIONS (4)
Study of contemporary international affairs, including analysis of politics among nations; control of national foreign policies, sovereignty, nationalism and diplomacy; technology, public opinion and war in international relations. (Formerly POL 331.)

POL 331. AMERICAN FOREIGN POLICY (4)
Analysis of the development and scope of United States foreign policy focusing upon our aims, decision-making, application of policies, and alternatives for specified problem areas in foreign affairs. (Formerly POL 338.)

POL 341. FLORIDA POLITICS AND GOVERNMENT (4)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns. Open to majors and non-majors.

PHY 691. GRADUATE SEMINAR (S/U only) Qtr. I, II, III, IV.

PHY 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

PHY 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

POL 342. SOUTHERN POLITICS (4)
Comparative analysis of selected political patterns and trends in the eleven southern states since 1950. (Formerly POL 347.)

POL 343. PRACTICAL POLITICS (4)
PR: POL 200 or 346 or CI. Field work in local political party activities and election campaigns. Open to majors and non-majors.

POL 346. POLITICAL PARTIES AND INTEREST GROUPS (4)
Analysis and understanding of the role, functions and processes of political parties and interest groups in American government. (Formerly POL 341.)

POL 350. INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (4)
An introductory analysis of governmental structures, political process and problems in metropolitan areas. Open to majors and non-majors.

POL 352. GOVERNING METROPOLITAN AREAS (4)
Examines current governmental institutions and their operating characteristics in light of the formation and growth of metropolitan areas and the need for regional governance, and identifies and analyzes current governance problems and potential institutions for effective governance. Open to majors and non-majors.

POL 360. INTRODUCTION TO PUBLIC ADMINISTRATION (4)
A comprehensive examination of the field of public administration, with emphasis on the development of important theories and practices within the context of the American political system. (Formerly POL 351.)

POL 370. INTRODUCTION TO LAW AND POLITICS (4)
Survey of important aspects of the study of law in political science. Among topics considered are the nature of law and the legal process and the relationship to political life of constitutional law, administrative law, the judicial process and private law. Understanding is sought in the related dimensions of legal theory, behavior, and impact on public policy.

POL 371. INTERNATIONAL LAW AND DIPLOMACY (4)
Contemporary international norms, agreements and negotiations. Their influence on, and response to, a changing international system. (Formerly POL 436.)

POL 373. JUDICIAL PROCESS (4)
Studies in the organization, development and function of American court systems, and the roles they play in the process of government. Open to majors and non-majors.

POL 374. JUDICIAL POLITICS (4)
Consideration of selected theories of judicial decision-making. Examination and application of social science methodology to the study of court systems. (Formerly POL 434.)

POL 411. AMERICAN POLITICAL THOUGHT (4)
Analysis of American political thought from the colonial period to the present with emphasis on recent contributions. (Formerly POL 463.)
POL 412. MODERN POLITICAL THOUGHT  
Analysis of basic political ideas from the works of Machiavelli, Hobbs, Locke, Rousseau, Burke, Bentham, and Mill. (Formerly POL 462.)

POL 413. CONTEMPORARY POLITICAL THOUGHT  
Analysis of themes and personalities from 19th and 20th century political thought. (Formerly POL 464.)

POL 414. POLITICAL BEHAVIOR  
Analysis of economic, psychological and social dimensions of political behavior; political participation; leadership and elites; political attitudes; voting behavior and decision-making processes. (Formerly POL 443.)

POL 426. COMPARATIVE GOVERNMENT AND POLITICS OF SELECTED COUNTRIES OR AREAS  
Studies a single political system or several political systems with common elements. Structure, process, domestic and foreign policies and regional roles are considered. May be repeated for credit as topics vary. Open to majors and non-majors.

POL 427. POLITICS OF THE DEVELOPING AREAS  
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world. (Formerly POL 561.)

POL 432. INTERNATIONAL ORGANIZATION  
The problems of achieving peace through existing international structures, both within and outside the United Nations. The background, achievement and organizational problems of these agencies. (Formerly POL 333.)

POL 433. DEFENSE POLICY  
Analytic study of contemporary American defense policy. It includes institutional factors contributing to formulation of defense policy and the impact of such policy on international relations. (Formerly POL 415.)

POL 447. THE AMERICAN PRESIDENCY  
Examination of the presidency as a political institution. Analysis of constitutional, statutory and informal powers; legislative and political leadership; presidential decision-making processes; administrative responsibilities; White House staffing; limits on power. (Formerly POL 441.)

POL 448. THE AMERICAN CONGRESS  
Analysis of the American Congress; organization, procedure, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight and decision-making process. (Formerly POL 455.)

POL 449. VOTING BEHAVIOR, PUBLIC OPINION, AND ELECTIONS  
Critical analysis of mass voting behavior and the role of elections in formally democratic political systems. Special emphasis on American patterns, with secondary attention to cross-national research. Open to majors and non-majors.

POL 451. CITY PLANNING AND COMMUNITY DEVELOPMENT  
An introduction to the development, role and components of city planning in local government and to the potential and actual policies of state and local government in attempting to regulate or control urbanization. Open to majors and non-majors.

POL 452. HOUSING AND GOVERNMENT  
Examines the role of federal, state, and local government in the formulation and implementation of housing policy. Analyzes the political aspects of housing policy formation and the administrative aspects of the housing delivery system. Open to majors and non-majors.

POL 453. CITY POLITICS  
Analysis of the politics of cities and suburbs: citizen attitudes, voting, participation; ethnic politics; the political machine; community power structures; interest groups. Open to majors and non-majors.

POL 466. PUBLIC FINANCIAL ADMINISTRATION  
Analysis of problems in the growth and development of public budgets, with emphasis on principal techniques and theories of fiscal administration. (Formerly POL 457.)

POL 471. CONSTITUTIONAL LAW I  
Examination of the underlying philosophy of the American Constitution, its principal institutions, their legal relationships to each other and the scope of their powers. Analysis of cases and commentaries from the founding period to the present. (Formerly POL 431.)

POL 472. CONSTITUTIONAL LAW II  
Analysis of the evolution of individual rights in such areas as property rights, rights of the accused, minority rights, and freedom of expression. Examination of Supreme Court cases and scholarly commentaries. (Formerly POL 432.)

POL 473. WOMEN AND LAW  
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and non-majors. (Also offered as WSP 473.)

POL 481. INDIVIDUAL RESEARCH  
(1-8) PR: 3.0 average in Political Science and Cl. Investigation of some aspect of political science culminating in the preparation of an original research paper.

POL 482. FIELD WORK  
PR: 3.0 average in Political Science and Cl. Opportunity for students to obtain practical experience, knowledge and understanding of local government, politics and administration by becoming involved as research and administrative aides to agencies and institutions of local government.

POL 491. SENIOR SEMINAR  
PR: Senior standing. Designed to give the student an opportunity to examine and apply various concepts and methods in the field of political science to some integrated problem area.

POL 492. HONOR THESIS  
PR: Admission to Honor Plan and Cl. Writing of honor thesis under direction of faculty members.

FOR SENIORS AND GRADUATE STUDENTS

POL 510. ISSUES IN POLITICAL PHILOSOPHY AND LAW  
Selected topics in political philosophy and law. May be repeated for credit as topics vary.

POL 515. POLITICAL RESEARCH METHODS  
An examination of problems and issues of political research methods, including the formulation of research problems, research design, acquisition of data and analysis.

POL 516. COMPUTER APPLICATIONS IN POLITICAL SCIENCE  
An introduction to the applications of computers to the study of politics. Topics include: unit-record equipment, electronic computer, coding of data, statistical packages, data analysis, alternative applications.

POL 520. ISSUES IN COMPARATIVE GOVERNMENT AND INTERNATIONAL RELATIONS  
Selected issues and topics in Comparative Government and International Relations. May be repeated for credit as topics vary.

POL 540. ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT  
Selected issues and topics in American National and State Governments. May be repeated for credit as topics vary.

POL 550. ISSUES IN URBAN GOVERNMENT AND POLITICS  
Selected issues and topics in Urban Government and politics. May be repeated for credit as topics vary.

POL 551. ADMINISTRATION OF URBAN AFFAIRS  
An analysis of the role of the administrator at the municipal level stressing the division of functions, policy formation, alternative governmental structures and their effect on administrative processes. (Formerly POL 520.)
POL 560. ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY  
Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

POL 561. CONCEPTS AND ISSUES IN PUBLIC PLANNING  
Analysis of planning in the public sector and the various important processes involved, such as policy determination, collection of information, decision-making, and other organizational and political processes.

POL 562. PUBLIC PERSONNEL ADMINISTRATION  
An analysis of recruitment, testing, training, employee and human relations in the public service. (Formerly POL 525.)

POL 563. COMPARATIVE PUBLIC ADMINISTRATION  
Analysis of Public Administrative systems or institutions cross-nationally with special emphasis on conceptual developments and empirical knowledge from Western and non-Western types of governments. (Formerly POL 527.)

POL 564. ADMINISTRATIVE REGULATION  
An analysis of the regulatory functions and processes in the American political system. The regulatory commissions, their functions, powers, management, and relations with other branches of government are covered.

POL 571. ADMINISTRATIVE LAW  
An examination of the constitutional bases and limitations of the administrative process, administrative adjudication, rule making, and the judicial review of such actions.

POL 574. RESEARCH IN LAW AND POLITICS  
Application of basic research tools to problems of case law and legislative history. Actual research experiences are employed to develop skills in such tasks as analyzing judicial opinions, finding points of law and researching legislative intent. The use of these skills is illustrated in a variety of settings, including public, governmental and academic research.

FOR GRADUATE STUDENTS ONLY

POL 610. SCOPE AND METHODS OF POLITICAL SCIENCE  
Advanced study of the scope and methodologies of political science, including their applications to different research areas. (Formerly POL 600.)

POL 614. POLITICAL BEHAVIOR  
Advanced study of determinants and dimensions of political behavior; political participation, voting, attitudes, public opinion, leadership, and elite behavior.

POL 615. SEMINAR IN POLITICAL THEORY  
This course will deal with the major contributions to political theory through the ages. An analysis both critical and analytical of the major works will be attempted.

POL 616. POLITICAL SOCIALIZATION  
Seminar in selected phases of the political socialization process. (Formerly POL 640.)

POL 620. SEMINAR IN COMPARATIVE GOVERNMENT AND POLITICS  
Comparative analysis of political systems in terms of processes, institutions and behavior. (Formerly POL 662.)

POL 626. GOVERNMENT AND POLITICS OF SELECTED COUNTRIES OR AREAS  
Examination of the government and politics of one country or a group of countries constituting an area. The specific country or area to be determined by the instructor. May be repeated for credit as topics vary.

POL 627. POLITICS OF DEVELOPING AREAS  
Advanced study of ideologies, governmental structures and political processes of selected nations of the non-Western world.

POL 630. SEMINAR IN INTERNATIONAL RELATIONS  
Investigation of selected phases of international relations in world politics. (Formerly POL 667.)

POL 631. AMERICAN FOREIGN POLICY  
A study of U. S. foreign policies with emphasis on decision-making processes, structures; policy outcome; and the evaluation of related political and economic issues.

POL 640. SEMINAR IN AMERICAN NATIONAL GOVERNMENT AND POLITICS  
Advanced study of the institutions and processes of American national government. (Formerly POL 670.)

POL 641. SEMINAR IN STATE GOVERNMENT AND POLITICS  
Advanced study of the institutions and processes of American state government. (Formerly POL 645.)

POL 646. POLITICAL PARTIES AND INTEREST GROUPS  
Analysis of role, functions and various special characteristics of political parties and interest groups as well as their interactions with other political institutions in the political process.

POL 647. THE AMERICAN PRESIDENCY  
Analysis of problems of modern presidency, with emphasis on staffing and decision-making.

POL 648. THE LEGISLATIVE PROCESS  
Analysis of formal and informal decision-making processes in House and Senate; executive-legislative conflict and cooperation; input/output analysis.

POL 650. SEMINAR IN URBAN GOVERNMENT AND POLITICS  
Analysis of the literature in urban government and politics, with special emphasis on urban political behavior and the development of various theories and propositions regarding governmental structure and the formation and implementation of public policy. (Formerly POL 675.)

POL 651. CITY AND REGIONAL PLANNING  
An investigation of regional planning and a review of goals, objectives, and interrelationships between regional and city planning; and intergovernmental and policy issues in the regional planning process.

POL 652. GOVERNMENTAL HOUSING POLICY  
This course examines government involvement in housing, with special emphasis on the development and analysis of certain housing programs.

POL 653. URBAN POLICY ANALYSIS  
Systematic examination of the organizational and administrative characteristics of planning, program development and reporting activities conducted at local levels by various state, regional and federal agencies. (Formerly POL 620.)

POL 660. SEMINAR IN PUBLIC ADMINISTRATION  
Examination of major conceptual developments, current research interests, issues, and problems in the theory and process of public administration.

POL 661. SEMINAR IN PUBLIC POLICY  
An analysis of the background and interpretation of various approaches which influence the formulation and execution of public policy.

POL 666. PUBLIC FINANCIAL ADMINISTRATION  
An examination of the fiscal organization of federal, state and local governments. Current problems in budgeting, revenue and indebtedness are considered.

POL 667. BUREAUCRACY AND PUBLIC POLICY  
Analysis of the formal, informal and societal characteristics of public bureaucracies and their impact on public policy. (Formerly POL 627.)

POL 668. STATE AND LOCAL BUDGETING  
An examination of the budgetary systems and practices of state and local governments with emphasis on preparation, authorization, execution and control.

POL 670. SEMINAR IN LAW AND POLITICS  
Advanced study of institutions and processes in the field of law and politics.
POL 671. CONSTITUTIONAL LAW (4)
Advanced study of legal, political and methodological problems related to constitutional law.

POL 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

POL 683. SELECTED TOPICS IN POLITICAL SCIENCE (4)
Selected topics, issues and problems in political science for advanced graduate students. May be repeated for credit as topics vary.


LOWER LEVEL COURSES

PSY 200. AN INTRODUCTION TO CONTEMPORARY PSYCHOLOGY (4)
Designed as an introductory course in psychology for both majors and non-majors. A broad survey of contemporary psychology with special emphasis on the more applied areas of psychology (e.g., social psychology, clinical psychology, industrial psychology.)

UPPER LEVEL COURSES

PSY 300. GENERAL PSYCHOLOGY (4)
PR: PSY 200 or C/ Designed as an in-depth examination of the basic principles and concepts of psychology. It is intended to provide the student with the necessary knowledge for the more specialized courses that follow. Students will be introduced to the basics of experimental investigation and be given extensive coverage of the basic areas of psychology (e.g., learning, perception, neuropsychology.) 3 lecture, 1 discussion/lab.

PSY 311-312. RESEARCH METHODS IN PSYCHOLOGY (4,1)
PR: PSY 200 or C/ Scientific research methods and their applications for psychology. Topics include experimental planning, control procedures and interpretive principles. Lecture plus two-hour lab. Must be taken concurrently.

PSY 313. APPLIED PSYCHOLOGY (4)
The application of psychological principles and the functions of psychologists in education, government, industry, and clinical practice. Not for major credit.

PSY 335. PSYCHOLOGY OF ADJUSTMENT (4)
Genetic, organic and learned factors involved in the processes of personal adjustment: applications for mental health principles to everyday living. Not for major credit.

PSY 341. CHILD PSYCHOLOGY (4)
Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior. Not for major credit.

PSY 371. CONTEMPORARY PROBLEMS IN PSYCHOLOGY (4)
Selected topics from all areas of psychology designed to give the undergraduate nonmajor an opportunity to become acquainted with psychological concepts relevant to contemporary problems in our society. Not for major credit. (Formerly PSY 401.)

PSY 402. PSYCHOLOGY OF LEARNING (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. Survey of methods, empirical findings and theoretical interpretations in conditioning and instrumental learning. Lec.-lab.

PSY 403. DEVELOPMENTAL PSYCHOLOGY (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. Survey of methods, empirical findings and theoretical interpretations in the study of human and animal development.

PSY 404. SOCIAL PSYCHOLOGY (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. Survey of methods, empirical findings and theoretical interpretations in the study of an individual's behavior as it is affected by others.

PSY 405. NEUROPSYCHOLOGY (4)

PSY 411. EXPERIMENTAL DESIGN AND ANALYSIS (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 415. SYSTEMATIC PSYCHOLOGY (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 421. MOTIVATION (4)
PR: PSY 200, 300; SSI 301; PSY 311-312, 402. An examination of human and animal motivations from both physiological and psychological viewpoints.

PSY 425. COMPARATIVE PSYCHOLOGY (4)
PR: PSY 200, 300; SSI 301; PSY 311-312, 402, 405. The study of the evolution of behavior, similarities and differences in capacities for environmental adjustment and for behavioral organization among the important types of living beings from plants and unicellular organisms to the primates including man.

PSY 432. INDUSTRIAL PSYCHOLOGY (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. Application of psychological principles to industry. Topics include: selection and placement, testing, criterion development, performance appraisal, training, motivation, job attitudes and satisfaction, supervision, decision-making, organizational structure and theory, accidents and safety, human engineering.

PSY 436. PSYCHOLOGICAL ASSESSMENT (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. A consideration of the instruments for intellectual achievement, and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both PSY 436 and EDF 303, Introduction to Measurement and Evaluation.

PSY 441. HUMAN MEMORY (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. Survey of methods, empirical findings, and theoretical interpretations of human learning and retention, including concept learning, information processing and verbal learning. Lec.-lab.

PSY 445. PERCEPTION (4)
PR: PSY 200, 300; SSI 301; PSY 311-312. How man perceives his environment. Topics include sensory bases of perception, physical correlates of perceptual phenomena, and the effects of individual and social factors on perception. Primary emphasis on vision and audition. Lec.-lab.
PSY 614. PSYCHOPATHOLOGY (5)
PR: Admission to M.A. program in psychology or CI. Exploration of current approaches to the understanding of pathological behavior and implications for theories of personality. A survey of treatment methods is included. M.A. core course.

PSY 616. PSYCHOLOGICAL ASSESSMENT (5)
PR: CI. Courses cover theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, neuropsychodiagnotics, and personality testing. May be repeated for credit with different subject matter.

PSY 621. APPLICATIONS OF LEARNING PRINCIPLES & PROCEDURES (5)
PR: Prior course in learning, or CI. Application of various learning principles and procedures to problems in specialized settings. Co-listed Rehabilitation Counseling (REH 621.)

PSY 631. RESEARCH METHODS AND MEASUREMENT (5)
PR: Admission to graduate degree program in psychology or CI. Courses designed to cover research methods and strategies and their application to psychology. Topics include logic and purpose of experimentation in psychology, measurement theory, design and analysis of experiments, probability, statistical inference, analysis of variance, correlational methods, interpretation of experimental findings. M.A. core course. May be repeated for credit with different subject matter.

PSY 634. PHYSIOLOGICAL PSYCHOLOGY (5)
PR: Admission to M.A. program in psychology or CI. Neural and physiological foundations of behavior. Structure and function of the central nervous system and autonomic nervous system. Physiological basis of learning, motivation in subhumans and humans. M.A. core course.

PSY 635. DEVELOPMENTAL PSYCHOLOGY (5)
PR: Admission to M.A. program in psychology or CI. Detailed study of the development of human and animal behavior aimed toward an understanding of ontogenetic contributions to later behaviors. Effects of early experience on later behavior. M.A. core course.

PSY 636. LEARNING (5)
PR: Admission to M.A. program in psychology or CI. Habituation, sensitization, classical and instrumental conditioning, generalization, discrimination, trial and error learning, problem solving. M.A. core course.

PSY 638. PERCEPTION (5)
PR: Admission to M.A. program in psychology or CI. Current data and theory of perceptual processes. Consideration of physiological and psychological variables in perception, and applications of information theory and signal detection theory. M.A. core course.

PSY 639. SOCIAL PSYCHOLOGY (5)
PR: Admission to M.A. program in psychology or CI. Overview of theory and research in social psychology. Attitudes, values, group processes, leadership, conformity, social learning and motivation. M.A. core course.

PSY 641. HUMAN MEMORY (5)
PR: Admission to M.A. program in psychology or CI. Review of methods, findings and theoretical interpretations associated with the study of acquisition and retention of information. M.A. core course.

PSY 642. INDUSTRIAL PSYCHOLOGY (5)
PR: Admission to M.A. program in psychology or CI. An introduction to the major areas of Industrial-Organizational Psychology including the topics of selection and placement, training, criterion development and performance appraisal, job satisfaction and motivation, and organizational theory and structure. M.A. core course.
PSY 665. TOPICS IN CLINICAL-COMMUNITY PSYCHOLOGY (5)
PR: CI. Courses on topics such as humanistic psychology, community psychology, and clinical neuropsychology. May be repeated for credit with different subject matter.

PSY 670. TOPICS IN EXPERIMENTAL PSYCHOLOGY (5)
PR: CI. Courses on topics such as operant behavior, electrophysiological methods, psychophysiology, and memory. May be repeated for credit with different subject matter.

PSY 675. TOPICS IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY (5)
PR: CI. Courses on topics such as experimental social psychology, organizational psychology, attitudes, and group processes. May be repeated for credit with different subject matter.

PSY 676. TOPICS IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY (5)
PR: CI. Courses on topics such as industrial psychology, testing in industry, human factors psychology, and training in industry. May be repeated for credit with different subject matter.

PSY 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

PSY 682. PRACTICUM AND INTERNSHIP IN CLINICAL PSYCHOLOGY (1-15)
PR: CI. Supervised training in community and university settings in the application of psychology. May be repeated for credit.

PSY 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

PSY 695. GRADUATE RESEARCH METHODS (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

PSY 699. THESIS: MASTER'S (credit varies)
Repeatable. (S/U only.)

PSY 720. DIRECTED READINGS IN PSYCHOLOGY (1-15)
PR: CI. An advanced reading program of selected topics in Psychology under the supervision of a psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member. May be repeated for credit.

PSY 760. GRADUATE SEMINAR IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY (5)
PR: CI. Seminars on topics such as social psychology, scientific communication, and decision making. May be repeated for credit with different subject matter. (Formerly PSY 790.)

PSY 761. GRADUATE SEMINAR IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY (5)
PR: CI. Seminars on topics such as industrial psychology, evaluation of performance in industry, and human factors. May be repeated for credit with different subject matter. (Formerly PSY 781.)

PSY 764. PSYCHOTHERAPY AND BEHAVIOR CHANGE (5)
PR: Admission to graduate degree program in psychology and CI. Courses to cover the theoretical, empirical, and applied foundations of various systems of psychotherapy. Traditional relationship therapy, client-centered approaches, operant techniques, group psychotherapy, and other varieties of therapeutic intervention. May be repeated for credit with different subject matter.

PSY 776. GRADUATE SEMINAR IN CLINICAL-COMMUNITY PSYCHOLOGY (5)
PR: CI. Seminars on topics such as psychopathology, community psychology, clinical issues, personality, and developmental psychology. May be repeated for credit with different subject matter.

PSY 775. GRADUATE SEMINAR IN EXPERIMENTAL PSYCHOLOGY (1-5)
PR: CI. Seminars on topics such as learning, perception, physiological psychology, cognitive processes, and quantitative methods. May be repeated for credit with different subject matter.

PSY 781. DIRECTED RESEARCH (credit varies)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

PSY 790. SEMINAR IN ETHICS AND PROFESSIONAL PROBLEMS (credit varies)
PR: Second year in Ph.D. program in psychology or CI. Ethical issues and professional problems in the practice of psychology.

PSY 799. DISSERTATION: DOCTORAL (credit varies)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

REHABILITATION COUNSELING (REH)


FOR SENIORS AND GRADUATE STUDENTS
REH 501. REHABILITATION: CONCEPTS AND THEORETICAL ISSUES (5)
A look at the historical origin, development, and current understanding of the philosophy of rehabilitation. The rehabilitation process is viewed as an integration of concepts and procedures from the medical, social-psychological, and legal disciplines.

REH 502. INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING I (5)
PR: CI. Focuses on the effective utilization of one's self in the various counseling and coordinating relationships of the rehabilitation process. An introduction to encounter, body awareness, Gestalt counseling techniques, and related approaches.

REH 503. MEDICAL ASPECTS OF DISABILITY (5)
Study of medical information needed by the counselor in integrating medical services into the total rehabilitation process from referral to placement. Examines the effect of a client's physical condition on various areas of adjustment. Includes appraisal of physical capacities in terms of functional limitations and individual differences.

REH 507. SEMINAR IN PRINCIPLES AND PRACTICES OF REHABILITATION COUNSELING I (4)
PR: CI. Procedures appropriate in meeting the needs of handicapped individuals in the rehabilitation process. Must be taken concurrently with REH 508. (S/U only.)

REH 508. PRACTICUM I (2)
PR: CI. Supervised observation experience and participation in counseling services in various rehabilitation agencies. Must be taken concurrently with REH 507. (S/U only.)

REH 509. DIRECTED STUDIES (2-5)
PR: CI. Study in rehabilitation counseling area under the
REL 316. NEW TESTAMENT GREEK I (4)

REH 317. NEW TESTAMENT GREEK II (4)

REL 325. HISTORY OF JUDAISM (4)
The historical development of Judaism and Jewish concepts from biblical times to the modern era with emphasis on the formative years from the Prophets to the close of the Talmud.

REL 326. MODERN JUDAISM (3)
A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices and institutions.

REL 327. HISTORY OF CHRISTIANITY I (4)
The historical development of Christianity, its ideas and institutions, from the first century to the sixteenth century.

REL 328. HISTORY OF CHRISTIANITY II (4)
The historical development of Christianity, its ideas and institutions from the work of John Wycliff to the rise of "religious modernism" in the 19th century.

REL 329. RELIGION IN AMERICA (4)
To examine the movement from state church to pluralism in American religious institutions, the religious results of 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.

REL 330. BLACK RELIGIOUS EXPERIENCE IN AMERICA (4)
A course designed to stimulate interest in the religious history, experience, and thinking of American Blacks.

REL 331. THE BLACK CHURCH (4)
A critical examination of the Black Church will be made in this course. The significance of religious development and the present condition of Black religious institutions and their relationships to modern movements will be examined. Denominational, interdenominational, and international

RELIGIOUS STUDIES (REL/ANC)


Religious Studies (REL)

UPPER LEVEL COURSES

REL 300. INTRODUCTION TO RELIGION (4)
An examination of the phenomenon of religion, which will include (1) an examination of why people do religion; (2) an examination of the character of theology, with special attention to certain basic theological concepts such as God, sin, salvation, liberation, reincarnation, immortality, theism, atheism; (3) an analysis of the character of religious ritual in its metatechnological, sacramental and experiential forms; and (4) an examination of the place and character of moral systems in religion.

REL 310. INTRODUCTION TO THE OLD TESTAMENT (4)
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 310 and REL 410 may not both be credited toward the major.

REL 315. INTRODUCTION TO THE NEW TESTAMENT (4)
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D. REL 315 and 415 may not both be credited toward the major.

REL 316. NEW TESTAMENT GREEK I (4)

FOR GRADUATE STUDENTS ONLY

REH 602. INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING II (5)

REH 603. PSYCHO-SOCIAL DISABILITY IN REHABILITATION COUNSELING (5)
PR: REH 502. Personal, social, and vocational consequences of emotional and social disabilities.

REH 604. RESEARCH METHODOLOGY IN REHABILITATION (5)
PR: CI. The aim of this course is to help students evaluate and utilize available research studies as well as to develop their own research skills. An individual research project is required.

REH 606. VOCATIONAL EVALUATION, ADJUSTMENT SERVICES AND PLACEMENT OF THE HANDICAPPED AND DISADVANTAGED (2-5)
Methods and techniques employed to assess the mental, social, physical and vocational problems of handicapped and disadvantaged persons. Diagnosis, evaluation and placement in relation to vocational potential.

REH 607. SELECTED TOPICS IN REHABILITATION (2-5)
PR: CI. Designed to give the student an opportunity to study in depth some concept, procedure, or body of data in the rehabilitation field. May be repeated for a maximum of 10 hours credit.

REH 608. EVALUATION IN THE REHABILITATION PROCESS (5)
PR: REH 502. Examine the evaluation procedure from the point of view of providing reliable and valid information for use in the counseling process. (Formerly REH 506.)

REH 609. SEMINAR IN REHABILITATION COUNSELING (2-5)
PR: CI. Seminar in selected issues and problems in rehabilitation counseling. Subject and scope to be determined by instructor. May be repeated for credit with different content.

REH 610. SEMINAR IN PRINCIPLES AND PRACTICES OF REHABILITATION COUNSELING II (4)
PR: REH 507 and 508. Continuation of REH 507. Must be taken concurrently with REH 611. (S/U only.)

REH 611. PRACTICUM II (2)
PR: REH 507 and 508. Continuation of REH 508. Must be taken concurrently with REH 610. (S/U only.)

REH 602. GROUP WORK IN REHABILITATION COUNSELING (5)
PR: CI. Examination of group processes as applicable to rehabilitation counseling.

REH 613. ADVANCED GROUP WORK IN REHABILITATION COUNSELING (5)
PR: CI. Extension of REH 612 with emphasis on field work.

REH 620. INTERNSHIP IN REHABILITATION (10-15)
PR: REH 610 and 611. Student placement in an approved intern setting for a minimum of 400 hours of supervised experience. (S/U only.)

REH 621. APPLICATIONS OF LEARNING PRINCIPLES AND PROCEDURES (5)
PR: Prior course in Learning or CI. Application of various learning principles and procedures to problems in specialized settings. Co-listed with Psychology (PSY 621).
caucuses will also be examined for their particular religious, political, economic, social, and ideological significance.

REL 332. NEW SECTS AND CULTS (4)
A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.

REL 340. LAND OF THE BIBLE (4)
A survey of the natural features, historical forces, and cultural movements of the Holy Land that shaped its peculiar role in history with respect to the ancient Hebrews. Particular attention will be paid to the period from the Hebrew Conquest to the time of Jesus.

REL 341. BIBLICAL ARCHAEOLOGY (4)
An examination in depth 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.

REL 350. WORLD RELIGIONS—EASTERN (5)
An introduction to and a comparison of the ideas, the literature, the institutions of the major religions of the Eastern World, especially Buddhism (Theravāda, Mahayana, Zen), Hinduism, Jainism, Taoism, Confucianism, Shinto.

REL 351. WORLD RELIGIONS—WESTERN (5)
An introduction to and a comparison of the ideas, the literature, the institutions of the major religions of the Western (Near Eastern origin) World—Judaism, Zoroastrianism, Christianity, and Islam. And a general comparison of Western religious ideas with Eastern religious ideas.

REL 353. BUDDHISM (5)
The study and comparison of Theravada and Mahayana Buddhism in their philosophical and psychological dimensions.

REL 354. THE RELIGIONS OF INDIA (4)
The sources of Hindu philosophic thought, an understanding of the psychology of the Yogas, and a study of the Hindu holy men and women are the three main concerns of this course.

REL 355. RELIGIONS OF CHINA AND JAPAN (4)
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.

REL 360. DIALOGUES IN RELIGION (4)
A course designed to place in dialogic encounter various aspects of contemporary religious beliefs and practices for the purpose of enabling students to hear and participate in discussions concerning the claims and procedures of existing religions.

REL 370. CONTEMPORARY RELIGIOUS THOUGHT (4)
An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Alitze, Buber, Niebuhr.

REL 383. SELECTED TOPICS (1-5)
PR: Cl. Course contents depend on students’ needs.

REL 385. DIRECTED READINGS (1-5)
PR: Cl. Individual guidance in concentrated reading on a selected topic.

REL 400. 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 401. RELIGIOUS BEHAVIOR AND INSTITUTIONS (4)
PR: One course in sociology or social psychology or Cl. The sources of religious social thought, an understanding of the historical evolution of religious thought about society, and an analytical grasp of the way in which religious insights and values relate to human societal life are the three main objectives of this course.

REL 402. RELIGION AND DEPTH PSYCHOLOGY (4)
PR: One psychology course or Cl. This course is designed to enhance the student’s understanding of human existence by investigating the interrelationships between human dynamics and religion.

REL 403. JESUS’ LIFE AND TEACHINGS (4)
PR: Cl. 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 410. OLD TESTAMENT STUDIES I (Torah) (4)
An examination of the Pentateuch or Torah from the point of view of its literary development, internal traditions, historical background, Law, covenant theology, and Hebrew religion.

REL 411. OLD TESTAMENT STUDIES II (Prophets) (4)
PR: REL 410 or REL 315 or Cl. An investigation of the Prophetic literature of the Hebrew Scriptures including the emergence of mantic prophecy in Elijah and Elishah, classical prophecy in Jeremiah, Micah, Amos, and Isaiah, the later twelve prophets, and the role of Samuel and the Book of Kings.

REL 412. OLD TESTAMENT STUDIES III (Writings) (4)
PR: REL 410 or REL 315 or Cl. An exploration of the poetic and historical writings in the Hebrew canon including the Psalms, Wisdom Literature, Job and the problem of evil, the Five Scrolls, Daniel and apocalypticism, and the religious views of the Chronicler.

REL 413. DEAD SEA SCROLLS (4)
PR: Cl. A survey and study of the literature of the Dead Sea Scrolls in English translation. Examination of the literary, historical, and archaeological evidence for the identification of the Qumran people with the Essenes, Possible connections with the New Testament and early Christian theology.

REL 415. NEW TESTAMENT STUDIES (Gospels) (4)

REL 416. NEW TESTAMENT STUDIES II (Pauline Letters) (4)
PR: Cl. This course is designed to investigate the earliest Christianity in its Jewish and Gentile forms, the historical Paul, his proclamation, and his letters as preserved in the New Testament.

REL 417. NEW TESTAMENT STUDIES III (Later Letters and Revelation) (4)
PR: Cl. An examination of the emergence of institutional Christianity in the New Testament, particularly in churchly theology, the Pastoral Epistles, the catholic Epistles, the letters of James and John, and finally Christian apocalypticism in the book of Revelation (Apocalypse).

REL 481. UNDERGRADUATE RESEARCH (1-5)
PR: Junior standing and Cl. Individual investigations with faculty supervision.

REL 483. SELECTED TOPICS (1-5)
PR: Junior standing and Cl. Course contents depend on students’ needs.

REL 491. SEMINAR IN RELIGION (4)
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.

FOR SENIORS AND GRADUATE STUDENTS
REL 583. SELECTED TOPICS (1-5)
PR: Senior standing and Cl. Course contents depend on student’s needs.
Ancient Studies Sequence (ANC)

UPPER LEVEL COURSES
ANC 321. ANCIENT CIVILIZATIONS (5)
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.

ANC 341-342-343. BASIC HEBREW (3,3,3)
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

ANC 352. MID-EASTERN MYTHOLOGY (3)
Study of the more important myths and religious concepts of Egypt, the Fertile Crescent, Crete, Anatoila, and Persia, and of their impact on the Hebrew and Graeco-Roman mythologies as well as on later Western art, literature, and religion.

ANC 373. 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.

ANC 421. EGYPTIAN CIVILIZATION (4)
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.)

ANC 423. MESOPOTAMIAN CIVILIZATION (4)
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.)

ANC 427. GREEK CIVILIZATION (4)
Detailed study of the Aegean and Greek civilizations from their beginning in Crete and Mycenae to the Roman period. Greek discoveries, exploration and colonization. (Alternate years.)

ANC 429. ROMAN CIVILIZATION (4)
Prehistoric Italy and the Etruscan civilization. History of the civilization of Rome and the Empire with emphasis on the

SENior SEMinar (CBS)

CBS 401. SENIOR SEMINAR (3)
Contemporary issues, affecting social and personal values. Visiting lecturers, readings and discussions interrelating the

SOCIAL SCIENCES (INTERDISCIPLINARY) (SSI)


LOWER LEVEL COURSES
SSI 100. WORLD PERSPECTIVE (4)
Application of the interdisciplinary approach to the study of the international system, major world regions and problems.

UPPER LEVEL COURSES
SSI 300. AMERICA'S ROLE IN THE WORLD (4)
Application of the interdisciplinary approach to the study of America's relations with other nations through analysis of political, socio-economic, cultural, and military problems, conflicting national interests and the formulation of foreign policy and its implementation. Upper level standing or CI.

SSI 301. SOCIAL SCIENCE STATISTICS (4)
Topics selected from the following: measures of central tendency and variability probability and the normal curve, behavioral, natural, and social sciences and the humanities. Designed to focus the university education upon contemporary problems. (S/U only.)

correlations, curve fitting, scale and index number theory, polling, interview and survey techniques, content analysis. Students who successfully complete this course may not also receive credit for either ECN 231 Business and Economic Statistics I or MTH 345 Introductory Statistics.

SSI 311. COMMUNICATION (4)
Topics selected from the following: the language of structure, general semantics, communication networks, language and social perception, diffusion of information, communication and social gamesmanship, Aesopian language and Nu-Think in politics, normative language of clinical psychology, communication and pseudo events, non-verbal communication.

SSI 315. PUBLIC OPINION AND PRESSURE MECHANISM (4)
The content and formation of public opinion, properties of opinions and attitudes, and the principles and mechanisms of their formation and change.

SSI 321. HUMAN RELATIONS AND PRODUCTIVITY (4)
Topics to be selected from the following: the relation of science, technology, resources, energy, and population
change to social, economic, cultural and political change; social implications of research findings from the social, behavioral and management sciences.

SSI 325. PSYCHOLOGY AND THE SOCIAL ORDER (4)
Topics to be selected from the following: the quest for personal identity in modern mass society, the problems of mass culture and mass education, the problems of alienation and anomie in the 20th century, psychological factors in political and industrial conflict, man versus the machine in modern life.

Area Studies
The following five courses (SSI 339, 341, 343, 345 and 347), dealing with one or more countries of a given region, will select and its current problems.

SSI 413. LEISURE IN SOCIETY (4)
Facts and trends of changing leisure-time patterns in the USA and other countries; various conceptualizations of leisure; relationships of non-work time to work attitudes, personality, family, community, sub-cultures, religion, value systems, social class, and the functions of government.

SSI 415. THE CITY AND MAN (4)
Topics to be selected from the following: the city and its ills; proposed new types of community formation; planning and community; the social ecology of the city; conventional versus innovative approaches to the problems of the community.

SSI 421. SPORT IN SOCIETY (4)
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.

SSI 449, 450. THE EMERGING NATIONS (4, 4)
PR: Upper division standing or CI. CI required to take SSI 450 out of sequence. This course examines the processes and problems involved when an underdeveloped country seeks to develop a modern industrial civilization.

SSI 481. DIRECTED RESEARCH (1-4)
PR: CI plus upper division standing. May be repeated. To provide advanced students with interdisciplinary research experience in areas of specific interest.

SSI 485. DIRECTED READINGS (1-4)
PR: CI plus upper division standing. May be repeated. To provide advanced students with intensive reading of interdisciplinary nature in areas of specific interest.

SSI 491. SENIOR SEMINAR (4)
PR: Senior standing and CI. To provide an integrating seminar experience for International Studies' majors.

FOR SENIORS AND GRADUATE STUDENTS
SSI 503. CONTEMPORARY AMERICAN CULTURE (4)
A social analysis of the leading characteristics, ideals, and values of American life. An effort will be made to deal with a variety of contexts in which American cultural themes, standards and practices receive expression.

SSI 522. LEISURE THEORY (4)
PR: SSI 413 or CI. The exposition of an interdisciplinary theoretical model by which to relate specific leisure activities or experiences to broad social change; summaries of current and historical research; in the U.S.A. and other nations; term papers by students based on individual interest.

SSI 523. LEISURE PLANNING: COMMUNITY AND STATE (4)
An examination of the social, political and economic forces which relate to the policy formulation and program implementation of leisure agencies at the local and larger levels.

SSI 525. LEISURE POLICY (4)
PR: SSI 522 or CI. General issues relating to trends in leisure, and their application to such fields as management, labor, government, gerontology, education, mass media, urban planning, recreation, and counseling; students will prepare term papers to explore one area in detail.

SSI 583. SELECTED TOPICS (1-4)
PR: CI plus senior standing or graduate status. May be repeated. To provide advanced students with interdisciplinary study of selected topics.

FOR GRADUATE STUDENTS ONLY
SSI 601. SOCIAL PATHOLOGY (4)
An examination of the variety of social criticism which has been leveled at Western society and of some of the defenses which have been made in its behalf. Materials will be chosen from several of the social sciences.

SSI 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master's level. Repeatable. (S/U only.)

SSI 685. DIRECTED READINGS (1-4)
PR: CI and graduate standing. May be repeated. To provide graduate students with an intensive reading of interdisciplinary nature in areas of specific interest.
SOCIAL WORK (SOK)

UPPER LEVEL COURSES
SOK 411. INDIVIDUAL AND FAMILY SOCIAL WORK (4)
PR: SOC 201, 301, PSY 200. HUS 427 may be taken as a co-requisite or prerequisite. A beginning course in social work methods, emphasizing service to individuals and families. Focus is upon the value base for social work and the casework process in the resolution of individual and family problems. A required course for social work majors.

SOK 412. SOCIAL GROUP WORK INTERVENTIONS (4)
PR: SOC 201, 301. HUS 427 may be taken as a co-requisite or prerequisite. Selected conceptual material concerning small groups. Study of various types of groups and problem-solving characteristics.

SOK 440. FIELD PLACEMENT (12-15)
PR: Completion of all social work core courses. Restricted to social work majors in senior year. Supervised field placement giving students opportunity to work with individuals, families, groups and local community a minimum of 35 hours per week. Course requires attendance at a 2-hour weekly field integration seminar. (S/U only.)

SOCIOLoGY (SOC)

UPPER LEVEL COURSES
SOC 181. CONTEMPORARY SOCIAL PROBLEMS (4)
Application of sociological concepts and principles to the description and analysis of major social problems of modern societies. Does not count for sociology major credit. (Formerly SOC 261.)

SOC 201. INTRODUCTION TO SOCIOLOGY (4)
Nature and application of sociological concepts, theories, and methods; analysis of societies, associations and groups; social processes and social change.

SOC 251. MARRIAGE (4)
Study of pre-marital and marital relations. Social, cultural and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.

SOC 299. CAREERS IN SOCIOLOGY (2)
PR: One course in sociology. An examination of sociology as a career base and as a basis for general education. Employment opportunities, occupational skills taught in the several courses, and other useful aspects of sociology will be discussed. Description of the several subfields of specialization and a brief introduction to the courses taught in the department will lead to the student's making a tentative program schedule for his major. The value of sociology to the individual as a self-actualizing person of unique worth will be stressed. (S/U only.)

SOC 301. INTRODUCTION TO SOCIAL WELFARE (4)
PR: SOC 200 or CI. The historical and contemporary development of organized social services and institutions to meet human needs.

SOC 315. FOUNDATIONS OF THEORY (4)
PR: SOC 201 or CI. Consideration of selected theories in sociology and procedures of systematic theory construction.

SOC 321. SOCIAL INVESTIGATION (4)
PR: SOC 201, SS 301. Methods and techniques of social research. Design of sociological studies, collection of data, and interpretation of results.

SOC 325. COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (4)
PR: Major in the College of Social and Behavioral Sciences and concurrent registration in an upper division course. For students majoring in some other college, approval by major professor and instructor of course are both required, but concurrent registration in one of the social and behavioral science courses is maintained. The consideration of the theoretical and technical requirements for expressing social science concepts and propositions on film. Film planning, camera techniques, editing silent film, and the utilization of the independent sound (tape cassettes) in the commentary film. Ethics of film making.

SOC 326. LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (2)
PR: SOC 325, concurrent registration 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 six credits. (S/U only.)

SOC 331. SOCIAL PSYCHOLOGY (4)
PR: PSY 200 or SOC 201. Behavior of the individual human being as affected by social and cultural influences of modern society.

SOC 341. SOCIAL ORGANIZATION (4)
PR: SOC 201 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SOC 345. SOCIAL STRATIFICATION (4)
PR: SOC 201 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.

SOC 351. THE FAMILY (4)
PR: SOC 201 or CI. Principles of family organization, social adjustment and control. Maturation, socialization and stability of the family.

SOC 371. RACIAL AND ETHNIC RELATIONS (4)
PR: SOC 201 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

SOC 373. SOCIOLOGY OF RELIGION (4)
PR: SOC 201 or CI. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SOC 401. SOCIETY IN TRANSITION (4)
PR: Upper level standing. An analysis of the forces for change in contemporary society, utilizing a sociological perspective. Does not count for sociology major credit.

SOC 433. COLLECTIVE BEHAVIOR (4)
PR: SOC 201 or CI; upper division standing. Study of the development of group and mass behavior—crowds, social movements. (Formerly SOC 533.)

SOC 443. URBAN SOCIOLOGY (4)
PR: SOC 201 or CI; upper division standing. The social structure of the community in modern industrial societies. Analysis of community change. (Formerly SOC 543.)

SOC 447. SOCIOLOGICAL IMPLICATIONS OF INDUSTRIALIZATION (4)
PR: SOC 201 or CI. Socio-cultural elements which define and accompany the process of industrialization as observed in mature industrial nations.
SOC 449. POLITICAL SOCIOLOGY (4)  
PR: SOC 201 or CI. An examination of the social factors that affect government, politics, and political behavior.

SOC 453. SOCIOLOGY OF THE ARTS (4)  
PR: SOC 201 or CI; upper division standing. The creation, distribution and use of arts from a sociological perspective; the social roles involved. (Formerly SOC 553.)

SOC 461. CRIMINOLOGY (4)  
PR: SOC 201 or CI; upper division standing. Etiology of criminal behavior; law enforcement, crime in the United States; penology and prevention. (Formerly SOC 561.)

SOC 463. JUVENILE DELINQUENCY (4)  
PR: SOC 201 or CI; upper division standing. Theories of delinquency, patterns of delinquent behavior, methods of control and treatment. (Formerly SOC 563.)

SOC 471. POPULATION (4)  
PR: SOC 201 or CI; upper division standing. Sociological determinants of fertility, morality, and migration; theories of population change. (Formerly SOC 571.)

SOC 481. INDIVIDUAL RESEARCH (1-4)  
PR: Four courses in sociology, including SOC 321, upper division standing 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 faculty member and filed with the chairperson of the department before registration for this course will be permitted. Repeatable. Does not count for sociology major credit.

SOC 483. TOPICS IN SOCIOLOGY (4)  
PR: 16 quarter hours in Sociology and prior consent of instructor. May be repeated for credit. See class schedule for content. (Formerly SOC 583.)

SOC 491. SENIOR SEMINAR (4)  
For seniors majoring in sociology or other social sciences. Major issues in sociology, stressing theory and research.

FOR SENIORS AND GRADUATE STUDENTS

SOC 505. SOCIAL SERVICE SYSTEMS (4)  
PR: SOC 301 or CI; upper division standing. Emphasis upon voluntary programs and their development, planning, and coordination.

SOC 531. SOCIAL INTERACTION (4)  
PR: SOC 331, or CI; upper division standing. Interpersonal influence, complex behavior, role, conflict, and social situational factors.

SOC 533. SOCIOLOGY OF SMALL GROUPS (4)  
PR: SOC 201 or CI; upper division standing. Theory of small group structure, mechanics of interaction, observation of small groups.

SOC 541. SOCIAL CHANGE (4)  
PR: SOC 201 or CI; upper division standing. Major theories of social and cultural change, and mechanisms of change in various societies.

SOC 575. INDUSTRIAL SOCIOLOGY (4)  
PR: SOC 201 or CI; upper division standing. Interaction, communication and authority in economic organizations; the factory as a social system.

FOR GRADUATE STUDENTS ONLY

SOC 611. CONTEMPORARY SOCIOLOGICAL THEORY (4)  
PR: Undergraduate course in sociological theory or CI. Emphasizes logical and conceptual dimensions of theory and theory construction.

SOC 621. METHODS OF RESEARCH (4)  
PR: Course in Social Investigation or CI. Logic and practice of research; problems of observation and data collection, data processing, and evaluation.

SOC 623. SOCIOLOGICAL STATISTICS (5)  
PR: SSI 301 or CI. Logic and application of parametric and nonparametric statistical analysis for sociological data.

SOC 631. SOCIAL PSYCHOLOGY SEMINAR (4)  
PR: Course in Social Psychology or CI. Stresses contemporary developments in social psychological theory and empirical research.

SOC 641. COMMUNITY ANALYSIS (4)  
PR: Course in Urban Sociology or CI. Theories of community and community organization. Methods of community study; problems of urban areas.

SOC 643. COMPLEX ORGANIZATIONS (4)  
PR: Course in Social Organization or CI. Organizational theory, bureaucratic models, authority, power legitimation, and types of formal organization.

SOC 651. FAMILY ANALYSIS (4)  
PR: Course in Family or CI. Theory of interpersonal relations and interaction in the modern family. Analysis of functions and roles.

SOC 661. DEVIANCES & CONTROL (4)  
PR: Course in criminology or juvenile delinquency or CI. Theories of control and deviance with research application in problem areas.

SOC 681. DIRECTED RESEARCH (credit varies)  
PR: GR. Master’s level. Repeatable. (S/U only.)

SOC 683. SPECIAL TOPICS-SOCIOLOGY (4)  
PR: CI. Content varies according to interests of students and instructor. May be repeated for credit.

SOC 690. THE COMMUNICATION OF SOCIOLOGY (2)  
PR: SOC 611, 621, 623 or CI. Designed to help students define and formalize more effective efforts at communicating sociology. Majors only.

SOC 699. THESIS: MASTER’S (credit varies)  
Repeatable. (S/U only.)

SPEECH COMMUNICATION (SPE)


LOWER LEVEL COURSES

SPE 103. SPEECH COMMUNICATION FOR FOREIGN STUDENTS I (5)  
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension. May be taken in conjunction with ENG 100—English for Foreign Students.

SPE 104. SPEECH COMMUNICATION FOR FOREIGN STUDENTS II (5)  
PR: SPE 103 or CI. Intensive study and drill in American English pronunciation and listening comprehension. Emphasis on diction and speaking skills.

SPE 201. FUNDAMENTALS OF SPEECH COMMUNICATION (5)  
The nature and basic principles of speech; emphasis on improving speaking and listening skills common to all forms or oral communication through a variety of experiences in public discourse.

SPE 203. SPEECH IMPROVEMENT AND PHONETICS (5)  
Designed to improve vocal quality and expressiveness,
articulation, and pronunciation, and to give instruction and practice in using the International Phonetic Alphabet for speech improvement.

UPPER LEVEL COURSES

SPE 311. INTRODUCTION TO SPEECH SCIENCE (5)
PR: SPE 203 or CI. Communication models are analyzed. Emphasis on quantifiable parameters of effective speaking.

SPE 320. ISSUES AND INTERPRETATION (2)
The study of literature through analyses of printed textual materials and of the visual-aural performance of the text. May be repeated.

SPE 321. FUNDAMENTALS OF ORAL READING (5)
PR: SPE 201 or 203. Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

SPE 322. ORAL INTERPRETATION PERFORMANCE (2)
PR: SPE 321 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum 6 hours).

SPE 360. CURRENT ISSUES AND RHETORIC (2)
Analysis of significant current speakers and issues. May be repeated.

SPE 361. GROUP COMMUNICATION (5)
PR: SPE 201 or CI. A survey of theory and experimental research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

SPE 362. TECHNICAL COMMUNICATION (5)
Investigation and application of methodology and effective technical communication for effective oral presentation of technical reports.

SPE 363. PUBLIC SPEAKING (5)
PR: SPE 201 or CI. Study of selected public addresses as aids in speaking extemporaneously and from manuscript. The relationship between public speaking and public policy formulation.

SPE 365. ARGUMENTATION AND DEBATE (5)

SPE 366. FORENSICS (2)
PR: SPE 365 or CI. Study, library research, practice in forensics. Application of the principles of rhetoric to the current debate and discussion topics. May be repeated (maximum of 6 hours.)

SPE 367. FORMS OF PUBLIC ADDRESS (5)
PR: SPE 363 or 365. An advanced course emphasizing arrangement and style in informative, persuasive and ceremonial public address.

SPE 368. RHETORIC OF CONFRONTATION (4)
PR: Sophomore standing. The study of rhetorical strategies and tactics of agitation and control in confrontation situations.

SPE 369. PARLIAMENTARY SPEAKING (3)
Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SPE 370. SPEECH COMMUNICATION THEORY (5)
PR: SPE 201 or CI. The study of source, message, and receiver variables in human communications; communication settings; descriptive and predictive models of communication; speech communication as a process.

SPE 371. INTERPERSONAL COMMUNICATION (4)
PR: SPE 201 or CI. A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

SPE 381. UNDERGRADUATE RESEARCH (1-5)
PR: Junior standing and CI. Individual investigations and faculty supervision.

SPE 383. SELECTED TOPICS (1-5)
PR: Junior standing and CI.

SPE 385. DIRECTED READINGS (1-5)
PR: Junior standing and CI.

SPE 421. INTRODUCTION TO READERS' THEATRE (4)
PR: SPE 321 or CI. Designed to introduce the student to and give him experience in various forms of group approaches to oral interpretation.

SPE 452. SPEECH COMMUNICATION FOR BUSINESS AND THE PROFESSIONS (4)
Identification of Speech Communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in form of informational reports, conference management, persuasive communications, interviews, and public hearings.

SPE 472. THE RHETORIC OF AMERICAN DEMAGOGUES (4)
An analysis of the communication of such 20th Century American political leaders as: Bilbo, Agnew, McCarthy, Wallace, Nixon, and Malcolm X.

SPE 481. UNDERGRADUATE RESEARCH (1-5)
PR: Senior standing and CI. Individual investigations with faculty supervision.

SPE 483. SELECTED TOPICS (1-5)
PR: Senior standing and CI.

SPE 485. DIRECTED READINGS (1-5)
PR: Senior standing and CI.

SPE 491. SENIOR SEMINAR IN SPEECH COMMUNICATION (5)
PR: Senior standing, Speech Communication major. Exploration of selected topics of current significance to the several areas of speech communication through group discussion and research.

FOR SENIORS AND GRADUATE STUDENTS

SPE 501. SPEECH BEHAVIOR AND PROCESSES (5)
PR: Upperclass standing. Study of the theories of the simple and complex acoustical phenomenon of speech; intensive analysis of the stimulus-feedback variables of speech.

SPE 503. APPLIED PHONETIC TRANSCRIPTION (5)

SPE 511. EXPERIMENTAL PHONETICS (5)
PR: SPE 203 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use research findings, instruments and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

SPE 521. ORAL INTERPRETATION OF DRAMATIC LITERATURE (5)
PR: SP 321 or CI. Critical appreciation and Oral Interpretation of special textual materials which are inherently dramatic in nature and poetry, narrative prose, drama, biography, and history.

SPE 522. ORAL INTERPRETATION OF POETRY (5)
PR: SPE 321 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

SPE 523. LITERARY ADAPTATION AND ORAL INTERPRETATION (5)
PR: SPE 521. Practice in composition and adaptation of literary materials for oral presentation; an investigation of the more advanced problems in oral interpretation as in Choral Speaking and Chamber Theatre.
SPE 524. ORAL INTERPRETATION OF DRAMATIC LITERATURE II (5)
PR: SPE 521. A study of selected pre-modern dramas with special emphasis on problems of interpretation for oral performance.

SPE 525. ORAL INTERPRETATION OF CHILDREN'S LITERATURE (5)
PR: SPE 321 or CI. A study of the theories and practice in the oral interpretation of poetry and narrative fiction for children with special emphasis on classical and modern literature.

SPE 526. ORAL INTERPRETATION OF BIBLICAL LITERATURE (5)
PR: SPE 321 or CI. A critical interpretation and oral presentation of selected Books of the Old and New Testaments.

SPE 561. THEORY AND RESEARCH IN SMALL-GROUP COMMUNICATION (5)
PR: SPE 361. Advanced study of theories and research in communicative interaction in group discussion and conference.

SPE 565. HISTORY AND CRITICISM OF PUBLIC ADDRESS (5)
PR: SPE 363 or CI. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPE 567. PERSUASION (5)

SPE 581. RESEARCH (1-5)
PR: Senior or graduate standing and CI.

SPE 583. SELECTED TOPICS (1-5)
PR: Senior or graduate standing and CI.

SPE 585. DIRECTED READINGS (1-5)
PR: Senior or graduate standing and CI.

SPE 593. LANGUAGE AND SPEECH FOR CHILDREN (5)
PR: SPE 203 or CI. A diagnostic study of language development; the analysis of speech behavior and oral language needs of children; techniques of speech improvement for children.

FOR GRADUATE STUDENTS ONLY

SPE 603. ADVANCED PHONETICS (5)
PR: SPE 503 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

SPE 611. COMMUNICATION: ANALYSIS AND MEASUREMENT (5)
A study of selected modes of communication. Includes analysis of communication symbolology, and presents the theory and application of selected instruments for measuring and producing speech.

SPE 612. SEMINAR IN SPEECH SCIENCE (5)
PR: SPE 511. To provide graduate students with an opportunity to interact with faculty and other students for the purpose of developing an in-depth understanding of a selected sub-area of Speech Science.

SPE 621. HISTORY AND THEORIES OF ORAL INTERPRETATION (5)
A study of the history, critical writings, uses, and developments of the art of oral interpretation, with analysis of the principles and practices.

SPE 624. ORAL INTERPRETATION OF THE PLAYS OF SHAKESPEARE (4)
PR: SPE 321 or CI. A study of selected plays of Shakespeare from the point of view of the oral interpreter.

SPE 660. RHETORICAL THEORY (5)
Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.

SPE 664. THEORIES OF RHETORICAL CRITICISM (5)
The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.

SPE 665. HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS (5)
Criticism of selected speeches and speakers of American public address, studied against a background of political, social, and intellectual issues.

SPE 666. THEORIES OF ARGUMENT (5)
An examination of argumentative theory through the medium of selected reading in the works of major theorists past and present. In addition, selected examples from the argumentative persuasion of each historical period will be examined and analyzed for the purpose of correlating theory with practice.

SPE 668. EXPERIMENTAL RESEARCH IN ORAL COMMUNICATION (5)
Critical examination of research design, procedures, and reporting of experimental studies in small group communication and persuasive discourse.

SPE 681. DIRECTED RESEARCH (credit varies)
PR: GR. Master’s level. Repeatable. (S/U only.)

SPE 683. SELECTED TOPICS IN SPEECH (1-5)

SPE 685. DIRECTED READINGS (1-5)

SPE 691. GRADUATE SEMINAR IN ORAL COMMUNICATION (5)

SPE 694. GRADUATE INSTRUCTION METHODS (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

SPE 699. THESIS: MASTER’S (credit varies)
Repeatable. (S/U only.)

THEATRE (TAR)


LOWER LEVEL COURSES
TAR 201. 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 is open to non-majors and theatre majors should take this course concurrently with their first registration in the group of courses TAR 211, 212, 213. Required of all theatre majors.

TAR 211, 212, 213. THEATRE LABORATORY I, II, III (4,4,4)
A seminar-laboratory-workshop in movement, voice, design, and theatre technology. All three quarters of this course, together with TAR 201, are required of all theatre majors. The courses may be taken in any order, but all three must be completed before the student may proceed to the next level of theatre study. TAR 201 must be taken concurrently with the first course registered for in this group. Open to non-majors. Non-majors may terminate their enrollment in this group at the end of any quarter. Required of all theatre majors.

UPPER LEVEL COURSES
TAR 303. MODERN THEATRE PRACTICE (5)
Initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

TAR 311. WORKSHOP FOR TEXT ANALYSIS (4)
PR: Completion of the four 200-level courses. The techniques
of textual and script analysis related to the composition of performance. Required of all theatre majors. May be taken by non-majors with CI.

TAR 312. SPECIAL SKILLS IN MOVEMENT (4)
PR: Completion of the four 200-level courses. Stage violence, circus and acrobatic techniques and other special techniques of movement.

TAR 314. VOICE PREPARATION FOR THE ACTOR (4)
PR: Completion of the four 200-level courses. A laboratory in corrective speech and voice production for the actor.

TAR 321. MEANS OF VISUAL EXPRESSION (4)
PR: Completion of the four 200-level courses. The study and application of visual design and technology as applied to the development of visual dynamics. Required of all theatre majors. Open to non-majors with CI.

TAR 339. THEATRE HISTORY (4)
A survey of significant periods in world theatre. Required of all theatre majors. Open to non-majors.

TAR 352. PERFORMANCE (1)
The study, rehearsal, and performance of major theatrical works. Open to all University students by audition on a credit or non-credit basis. May be repeated. Additional appropriate credit may be earned with TAR 481 or TAR 581.

TAR 361. INTRODUCTION TO PUPPETRY (4)
PR: Completion of all four 200-level courses. Open to non-majors with CI. Principles and methods of puppetry with an historical survey of major forms and practical problems with laboratory production.

TAR 362. PUPPETRY PRODUCTION (4)
PR: TAR 361. Open to non-majors with CI. The creation, building and rehearsal of plays for puppet theatre in preparation for performance. It is strongly urged that members of this class enroll in puppetry performance in the quarter immediately following. May be repeated one time for additional elective credit, with CI, to a total of 8 hours.

TAR 363. PUPPETRY PERFORMANCE (4)
PR: TAR 362. Open to non-majors with CI. Experience in the production and presentation of a play for the puppet theatre. Follows directly from the course in puppetry production and must be taken the quarter immediately following that course. May be repeated one time for additional elective credit, with CI, to a total of 8 hours.

TAR 365. THEATRE FOR SPECIAL AUDIENCES (4)
PR: Completion of all four 200-level courses and/or CI. Open to non-majors. The preparation of a production for a special audience (ethnic, children, aged, institutionalized, etc.) Those enrolled would be expected to continue with TAR 366. With CI, may be repeated one time as additional elective credit, (total of 8 hours.)

TAR 366. PERFORMING THEATRE FOR SPECIAL AUDIENCES (4)
PR: TAR 365 (preceding Quarter) and/or CI. The presentation of a production for a special audience (ethnic, children, aged, institutionalized, etc.) Follows directly from TAR 365 and must be taken in the quarter immediately following that course. With CI, may be repeated one time as elective credit (total of eight hours.)

TAR 391. IMPROVISATION (4)
PR: Completion of all four 200-level courses and/or CI; audition required. Open to non-majors. 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.

TAR 392. IMPROVISATION II (4)
PR: TAR 391 and/or CI; audition required. Open to non-majors. 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.

TAR 403. THEATRE ORIGINS (6)
PR: Completion of first three years as a theatre major and one from the following: TAR 430, 431, 434, 437 or CI. Required of all theatre majors. An analysis of the development of theatre out of myth, ritual and liturgy. Emphasis will be placed on what subsequent attempts to understand the resulting phenomena can teach us about the nature of our art. (Formerly TAR 503.)

TAR 410. ACTING I (4)
PR: TAR 311 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.

TAR 411. ACTING II (4)
PR: TAR 410 and audition or TAR 412 or 414. Intermediate scene study. Special attention given to dialects and period movement. Required of all theatre majors with a performance concentration.

TAR 412. ACTING III (4)
PR: TAR 410 and audition or TAR 411 or 414, 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.

TAR 414. ACTING IV (4)
PR: TAR 410 and audition or TAR 411 or 412. A workshop in the classic repertoire. Advanced scene study. Required of all theatre majors with a performance concentration. (Formerly TAR 511.)

TAR 415. ACTING V (4)
PR: TAR 438 or 439 and audition. The aesthetics of acting. The various theories of the art. Required of all theatre majors with a performance concentration. (Formerly TAR 514.)

TAR 417. SCENE PAINTING (2)
PR: TAR 421, 422, 423, plus any three of TAR 420, 424, 425, 427, 428, 429. A practical course in scene painting - media and application. (Formerly TAR 527.)

TAR 420. DRAWING—FIGURE (2)
PR: Completion of year requirements for the theatre major and portfolio or CI. Drawing the human form and fabrics with an emphasis for the costume designer.

TAR 421. HISTORY OF ARCHITECTURE (2)
PR: Completion of year requirements for the theatre major and portfolio or CI. Required of all theatre majors with a design and technology concentration. A survey of architectural history with specific emphasis on architectural proportion, construction and style.

TAR 422. HISTORY OF DECOR (2)
PR: Completion of year requirements for the theatre major and portfolio or CI. Required of all theatre majors with a design and technology concentration. A survey of decorative motif and decor and their stylistic concepts.

TAR 423. HISTORY OF CLOTHING (2)
PR: Completion of year requirements for the theatre major and portfolio or CI. Required of all theatre majors with a design and technology concentration. A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences.

TAR 424. TECHNOLOGY—CONSTRUCTION: FABRIC (2)
PR: Completion of year requirements for the theatre major and portfolio or CI. A practical course in costume construction and application.

TAR 425. TECHNOLOGY-THEATRE-ELECTRONICS/OPTICS (2)
PR: Completion of year requirements for the theatre major and portfolio or CI. A practical course dealing with the
application of electronics and optics to stage lighting equipment.

TAR 427. DRAWING—DRAFTING FOR THE STAGE (2)  
PR: Completion of second year requirements for the theatre major and portfolio or CI. A practical course in drafting for the stage.

TAR 428. DRAWING—ARCHITECTURAL (2)  
PR: Completion of second year requirements for the theatre major and portfolio or CI. A course in rendering the inanimate form.

TAR 429. TECHNOLOGY—CONSTRUCTION: SCENERY (2)  
PR: Completion of second year requirements for the theatre major and portfolio or CI. A practical course in scene construction and application.

TAR 430. DRAMA—SPECIAL TOPICS (4)  
PR: TAR 339 or CI. A course in the function of the script for the active theatre artist treating materials of a single playwright. Repeatable with consent of adviser and change in topic. Only 4 hours will be counted toward major requirements, but other hours may be counted towards electives.

TAR 431. THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE (4)  
PR: TAR 339 or CI. A course in the function of the script for the active theatre artist, treating materials from the Ancient Greeks through the Restoration, giving some attention to later reflections.

TAR 434. AMERICAN THEATRE (4)  
PR: TAR 339 or CI. A course in the function of the script for the active theatre artist treating materials in the American theatre from the beginnings to the present.

TAR 437. THE DRAMA OF THE 19TH AND 20TH CENTURY STAGE (4)  
PR: TAR 339 or CI. A course in the function of the script for the active theatre artist treating materials from the 19th and 20th Centuries.

TAR 438. SENIOR SEMINAR—WORKSHOP (4)  
PR: TAR 411, 412, and 414. Audition and cold reading techniques. (Formerly TAR 512.)

TAR 439. SENIOR WORKSHOP FOR ACTORS (4)  
PR: TAR 411, 412, and 414 and audition. A coaching workshop in individual problems. (Formerly TAR 513.)

TAR 443, 444, 445. WRITING FOR THE THEATRE I, II, III (4,4,4)  
PR: Completion of the first two years as a theatre major and CI. An elective sequence in writing for the theatre, starting with explorations of theatre as a medium, exercises in theatre form and techniques and progressing to an advanced workshop in plays and other styles of theatre pieces.

TAR 452. ADVANCED PERFORMANCE (1)  
PR: TAR 352 or CI. The study, rehearsal, and performance of major theatrical works. Admission by audition. May be repeated. Additional appropriate credit may be earned with TAR 481 or TAR 581. (Formerly TAR 552.)

TAR 453. THEATRE STUDIES SEMINAR (4)  
PR: TAR 403. A seminar in the nature of the synthesized theatre object. Required of all majors. (Formerly TAR 553.)

TAR 454. LABORATORY WORKSHOP IN PERFORMANCE (4)  
PR: TAR 311 and/or CI. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (to a total of 12 hours credit).

TAR 455. PROBLEMS IN MUSIC THEATRE (4)  
PR: TAR 311. Special problems in acting as applied to the musical theatre.

TAR 461, 462, 463. DESIGN I, II, III (4,4,4)  
PR: TAR 421, 422, 423, plus any three of TAR 420, 424, 425, 427, 428, 429; portfolio and/or CI. The aesthetic and practical applications of the elements of design for theatre presentation. (Formerly TAR 521, 522, 523.)

TAR 464. PATTERN DRAFTING (2)  
PR: TAR 421, 422, 423, plus any three of TAR 420, 424, 425, 427, 428, 429. A practical course in the drafting of workable patterns for costumeing the actor. (Formerly TAR 528.)

TAR 465. SPECIAL PROJECTS (2)  
PR: TAR 421, 422, 423, plus any three of TAR 420, 424, 425, 427, 428, 429. An individually designed course of study tailored for the student's advanced work in technology and design. (Formerly TAR 529.)

TAR 472. STAGE MANAGEMENT (4)  
PR: Completion of an upper level concentration in theatre. A practical course in the working and organizational function of the stage manager in theatre, dance, opera, and other live performance situations. (Formerly TAR 571.)

TAR 473. THEATRE MANAGEMENT (2)  
PR: Completion of an upper level concentration in theatre. The study of management relations for the theatre, including all fields of management from box office to publicity. (Formerly TAR 573.)

TAR 474, 475, 476. TECHNICAL MANAGEMENT I, II, III (4,4,4)  
PR: TAR 421, 422, 423, plus any three of TAR 420, 424, 425, 427, 428, 429. A study of the technical operation and organization for the theatre technologist. Advanced problems in techniques and organization. (Formerly TAR 524, 525, 526.)

TAR 481. DIRECTED STUDIES (1-6)  
PR: CI. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

TAR 483. SELECTED TOPICS IN THEATRE (1-4)  
PR: CI. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

TAR 485. DIRECTED READING (1-6)  
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.

TAR 491, 492, 493. DIRECTING I, II, III (4,4,4)  
PR: Completion of the first two years as a theatre major and CI. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre piece.

FOR SENIORS AND GRADUATE STUDENTS

TAR 581. DIRECTED STUDIES (1-9)  
PR: CI. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

TAR 583. SELECTED TOPICS IN THEATRE (1-4)  
PR: CI. The content of the course will be governed by student demand and instructor interest. May be repeated for different topics.

TAR 585. DIRECTED READING (1-6)  
PR: CI and CC. Readings in topics of special interest to the student. Contract defining scope of project, materials used, expected results and credit hours assigned must be completed prior to registration. May be repeated for different topics.
WOMEN'S STUDIES PROGRAM

Director: J. H. Williams; Associate Professor: J. H. Williams; Assistant Professor: J. O. Ochshorn; Instructor: M. Ferrandino.

LOWER LEVEL COURSES

WSP 201. INTRODUCTION TO WOMEN'S STUDIES I (4)
A survey of major issues relevant to the female experience: the women's movement; social, historical and psychological implications.

WSP 202. INTRODUCTION TO WOMEN'S STUDIES II (4)
PR: WSP 201 or CI. A survey of major issues relevant to the female experience, marriage and the family, sexuality, the economy and professions, art and creativity.

UPPER LEVEL COURSES

WSP 309, 310, 311. WOMEN IN WESTERN CIVILIZATION (4,4,4)
PR: WSP 201 or CI. Interdisciplinary and comparative study of women in Western civilization, with particular emphasis on the historical sources and evolution of anti-feminist attitudes in selected societies. WSP 309: Pre-Biblical period through the Middle Ages. WSP 310: Renaissance through the eighteenth century. WSP 311: Nineteenth and twentieth centuries.

WSP 315. CONTEMPORARY WOMAN IN THE UNITED STATES (4)

WSP 321. WOMEN IN CROSS-CULTURAL PERSPECTIVE (4)
PR: WSP 201, ANT 201, or CI. Roles of women in selected cultures, with emphasis on Third World and primitive societies. Examples from least to most differentiated cultures. Influence of family models, kinship systems, economic patterns, political structure, and belief systems. (Also offered as ANT 431.)

WSP 329. HISTORY OF FEMINISM (4)
PR: WSP 201 or CI. The history of the feminist movement in the U.S. and Britain. Women in the rank-and-file of reform in America, including abolitionism, the settlement house movement, labor unions, political revolution in Western society, and Third World liberation. Sources and issues of the women's liberation movement.

WSP 378. SEXUAL POLITICS IN LITERATURE, I (5)
A study of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from Sappho through Shakespeare, with special emphasis on how this early literature has perpetuated cultural myths, rituals, superstitions, and misconceptions about women. (Also offered as ENG 378.)

WSP 379. SEXUAL POLITICS IN LITERATURE, II (5)
A study of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from the 17th century to the present, with special emphasis on women writers and on the emergence of the women's movement. (Also offered as ENG 379.)

WSP 401. PSYCHOLOGY OF WOMEN (4)
An examination of theories of female personality. Concepts of personality theory regarding sex differences, differential socialization, and sex-typed behavior. Particular attention to research on achievement motivation, cognitive, perceptual, and motor performance differences, and to developmental tasks of women in our society. (Also offered as PSY 450.)

WSP 405. HUMAN SEXUAL BEHAVIOR (4)
The dynamics of human sexuality including biological, constitutional, cultural, and psychological aspects. Exploration of the range of sexual behavior across groups. Sources of beliefs and attitudes about sex, especially female sexuality, current status. Interdisciplinary faculty. (Also offered as PSY 451.)

WSP 444. WOMEN AND THE EDUCATIONAL PROCESS (4)
PR: Junior standing recommended. Covers both the role women played in education in the U.S. and the way schools have helped to shape the role women play in American society. Topics include development of sex-role stereotypes through classroom interactions and curriculum materials, the status of women in public and higher education and laws affecting it, and the role of the schools in forming educational and career aspirations of girls and women. Emphasis will be placed on ways parents and teachers may counteract the sex-typing which schools, as they are currently structured, perpetuate. (Also offered as EDF 444.)

WSP 473. WOMEN AND LAW (4)
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and non-majors. (Also offered as POL 473.)

WSP 481. DIRECTED RESEARCH (1-4)
PR: CI plus upper division standing. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 8 credit hours.

WSP 483. SELECTED TOPICS (4)
PR: WSP 201 or CI. Study in special areas such as Women and Health, The Aging Woman, Women and the Professions, Women in the Arts.

WSP 485. DIRECTED READINGS (1-4)
PR: CI plus upper division standing. To provide advanced students with intensive reading of interdisciplinary nature in areas of specific interest. May be repeated up to 8 credit hours.

WSP 491. SEMINAR IN WOMEN'S STUDIES (4)
PR: WSP 201, or CI. In-depth study of research in one or more areas of topical interest to students and staff. Research involvement by students required.
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Director

Florida Center for the Arts ....................................... John W. Coker

*This interim departmental structure will exist for the 1975-76 academic year with acting chairpersons.
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Assistant Dean and Director of Advising .......................................................... WALTER E. WILLIAMS

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Biology ............................................................................................................ STEWART L. SWIHART
Chemistry ......................................................................................................... TERENCE C. OWEN
Geology ............................................................................................................ RICHARD A. DAVIS, JR.
Marine Science ................................................................................................ FRANK T. MANHEIM
Mathematics .................................................................................................... MANOOG N. MANOUGIAN
Physics ............................................................................................................. NORMAN L. OLESON

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Astronomical Observatory ............................................................................... EDWARD J. DEVINNEY
Botanical Gardens ............................................................................................ FREDERICK B. ESIQ
Herbarium ......................................................................................................... ROBERT W. LONG

COLLEGE OF NURSING

Dean .............................................................................................................. GWENDOLINE R. MACDONALD
Coordinator of Advising ................................................................................... LEROY LLOYD
Adviser to R.N. Students .................................................................................... NANCY GUNTER

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

Dean .............................................................................................................. TRAVIS J. NORTHCUTT, JR.
Assistant Dean ................................................................................................. GILBERT KUSHNER
Coordinator of Advising .................................................................................... TBA

Chairpersons
Anthropology .................................................................................................. GILBERT KUSHNER
Communicology ............................................................................................. STEWART E. KINDE
Criminal Justice ............................................................................................. MITCHELL SILVERMAN
Economics ....................................................................................................... THOMAS D. CURTIS
Geography ....................................................................................................... JOHN W. STAFFORD
History ............................................................................................................ ROGER W. TRASK
Interdisciplinary Social Sciences ..................................................................... MARK T. ORR
Political Science .............................................................................................. R. LEWIS BOWMAN
Psychology ...................................................................................................... JAMES W. ANKER
Sociology .......................................................................................................... ROY G. FRANCIS

Directors
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Aging Studies Program ...................................................................................... THOMAS A. RICH
International Studies Program ......................................................................... MARK T. ORR
Leisure Studies Program .................................................................................... MAX KAPLAN
Off-Campus Term Program ............................................................................. D. KEITH LUPTON
Rehabilitation Counseling Program ................................................................... CALVIN M. PINKARD
Women’s Studies Program ................................................................................ JUANITA H. WILLIAMS

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Vice President ................................................................................................. KENNETH W. THOMPSON
Assistant Vice President ................................................................................. ROBERT E. WALLACE
Special Assistant for Equal Opportunity ........................................................ WILLIE S. HARPE
Comptroller ....................................................................................................... ERIC L. WALDEN
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Director, Regional Data Center ........................................................................ HOWARD R. STEELE
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Director, Procurement ..................................................................................... KIETT SIMMONS
Director, Public Safety and Security ............................................................... PAUL A. URAVICH

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Vice President ................................................................................................. ALBERT C. HARTLEY
Assistant Vice President ................................................................................... GLENNDON E. CLAYTON
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Director, Space Utilization and Analysis ........................................................ LILLIAN YORKS ANDERSON
Director, University Budgets ........................................................................... RICKARD C. FENDER
Director, Institutional Studies .......................................................................... DONALD J. ANDERSON

STUDENT AFFAIRS AND UNIVERSITY DEVELOPMENT

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Assistant Vice President .................................................................................... DANIEL R. WALBOLT
Assistant to Vice President ............................................................................... TROY L. COLLIER
Director, Administrative Services ..................................................................... CHARLES F. HEWITT

Directors of Divisions
Student Publications .......................................................................................... LEO STALNAKER
Counseling Center for Human Development ................................................. EDMUND E. ALLEN
Financial Aids ................................................................................................. GEORGE H. GOLDSMITH
Housing ............................................................................................................. RAYMOND C. KING

Physical Education, Recreational Sports and Athletics .................................... RICHARD T. BOWERS
Cooperative Education and Placement ............................................................. GLENDRA L. LENTZ
Student Health Service ..................................................................................... LARRY E. STEVENS
Student Organizations ..................................................................................... PHYLLIS P. MARSHALL
University Center (acting) ................................................................................ DAVE PULLIAM
University Studies ............................................................................................ MAX C. DENTRE
Development .................................................................................................... TERRY EDMONSON
Alumni Affairs ................................................................................................. JOSEPH M. TOMAINO
Veterans Affairs (Tampa Campus) ..................................................................... ROBERT JETT
(Regional Campuses) ......................................................................................... RUSSELL BURR

REGIONAL CAMPUS AFFAIRS

Administrator & Dean ...................................................................................... LESTER W. TUTTLE, JR.
Assistant to Administrator ................................................................................. HERMAN J. BRAMES
Director, Continuing Education ....................................................................... J. RICHARD BRIGHTWELL
Director, Bachelor of Independent Studies ...................................................... KEVIN E. KEARNEY

ST. PETERSBURG CAMPUS

Director & Associate Dean ............................................................................... DAVID R. KENNERSON
Director, Student and Administrative Services ............................................... DONALD A. HANEY
Librarian ............................................................................................................. DORIS C. COOK

Extension Library
Director .............................................................................................................. OSBORNE L. GOMEZ
FORT MYERS CAMPUS
Director ........................................... ROY I. MUMME
Associate Librarian ................................. JEAN R. ANDERSON

SARASOTA CAMPUS
Director (acting) ................................. LESTER W. TUTTLE, JR.
Director, Administrative Affairs (acting) ........... CHARLES C. HARRA
Director, Student Affairs (acting) .................. DAVID L. EBERT
Director, New Student Affairs (acting) ............. MILDRED P. ELLIS
Director, Records and Registration (acting) ........ NANCY E. FERRARO
Director, Public Affairs (acting) ................. FURMAN C. ARTHUR
Director, Library (acting) ......................... EDMON LOW
Office of Continuing Education ................. SARAH HOWELL
New College of USF Provost (acting) ............... GEORGE H. MAYER

Chairpersons
Humanities (acting) ............................... DAVID E. DYKSTRA
Natural Sciences (acting) .......................... PETER F. BURI
Social Sciences (acting) ........................... LASZLO DEME

Director, Off-Campus Studies (acting) ............. NATALIE ROSEL
Coordinator, Environmental Studies Program (acting) ................... JOHN B. MORRILL

NEW COLLEGE
Provost (acting) .................................... GEORGE H. MAYER
Chairpersons
Humanities (acting) ............................... DAVID DYKSTRA
Natural Sciences (acting) .......................... PETER BURI
Social Sciences (acting) ........................... LASZLO DEME

Director
Off-Campus Studies (acting) ..................... NATALIE ROSEL
Coordinator
Environmental Studies Program (acting) ......... JOHN MRRILL
All members of the University of South Florida faculty and administrative staff, including teaching, research, administrative and professional personnel are listed below in alphabetical order. The listing includes name, current rank and field, first year of continuous appointment to any position in the institution, and institution and year of terminal degree, as of December 31, 1975. (A semicolon between degrees indicates different institutions.)

**ABBREY, WALTER R.** Lecturer (Engineering), 1966 B.S.M.E., Tri-State College, Indiana, 1938

**ABRAM, JACQUES** Professor (Music), 1963 Diploma with Distinction, Juilliard School of Music, 1928

**ACKERMAN, DORIS J.** Assistant University Librarian (Libraries), 1969 B.A.; M.L.S., Rutgers, 1969

**ADAM, W. LEE, JR.** Assistant Professor (Biochemistry), 1975 B.S.; M.S., Florida State University, 1971

**ADAMS, ADLER, AGRESTI, AHLUWALIA, AHMED, AHRENS,** VICKI ALEXANDER, ALEXANDER, MICHAEL D. Clinical Psychologist (Counseling), 1975 B.A., M.A., University of California, Berkeley, 1968

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

**ALLEN, HAROLD C.** Assistant Professor (Management), 1967 B.A.; M.B.A.; Ph.D., University of Florida, 1969

**ALLEN, JAMES L.** Professor (Engineering), 1972 B.E.E., M.S.E.E., Ph.D., Georgia Institute of Technology, 1966

**ALVAREZ, NINA P.** University Physician (Student Health Service), 1975 B.A.; M.D., Salamanca University, Spain, 1970

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

**B.S.; M.A., Florida State University, 1953 ANDERSON, DONALD J.** Director (Institutional Studies), 1967 B.A.; M.A., University of South Florida, 1971

**Anderson, E. Christian** Professor-Chairperson (Education), 1964 B.S., M.A., Ph.D., University of Michigan, 1964

**Anderson, Everett S.** Professor (Music), 1963 B.M., M.M., Illinois Wesleyan University, 1937

**Anderson, Jean R.** Associate University Librarian, (Libraries), 1975 Pt. Myers Campus

**B.A.; M.S.L.S., Columbia University, 1961**

**Anderson, Lillian Yorks** Director (Space Utilization and Analysis), 1964 Certified Diploma, Philadelphia College of Bible, 1955

**Anderson, Louis V.** Associate Professor (Education), 1963 B.A., M.A., Ph.D., George Peabody College, 1966

**Anderson, Melvin W.** Professor (SMF-Engineering), 1969 B.S., M.S., Ph.D., Carnegie-Mellon University, 1967, P.E.

**Anderson, Merlyn G.** Assistant Professor (Surgery), 1975 (Part time)

**B.S.; M.D., Loma Linda University, 1963 ANDERSON, ROBERT L.** Associate Professor (Marketing), 1971 B.S., M.S.; Ph.D., North Texas State University, 1971

**Angrosino, Michael V.** Assistant Professor (Anthropology), 1972 B.A.; Ph.D., University of North Carolina, 1972

**Anker, James M.** Professor-Chairperson (Psychology), 1974 A.B., M.A., Ph.D., Catholic University of America, 1957

**Anton, William D.** Academic Administrator (Counseling Center, Student Affairs), 1972 B.A., M.A., Ph.D., University of South Florida, 1975

**Antonio, James F.** Associate Professor (Accounting), 1970 B.S., M.S., Ph.D., University of Illinois, 1967, C.P.A.

**Armstrong, Ronald W.** Instructor (Sociology), 1972 St. Petersburg Campus B.A.; M.A., University of Oregon, 1970

**Arnade, Charles W.** Professor (Interdisciplinary Social Science), 1961 A.B., M.A., Ph.D., University of Florida, 1955

**Arthur, Furman C.** Acting Director (Information Services), Sarasota Campus, 1975 B.A., Bethany College, 1948

**Arthur, Gary K.** Assistant Professor (Psychiatry), 1975 B.S.; M.D., Hannemann Medical College, 1970

**Ashford, Theodore A.** Professor (Chemistry) and Dean Emeritus (Natural Science), 1960 B.S., M.S., Ph.D., University of Chicago, 1936

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

**Aucremann, Charles E.** Associate Professor (Family Medicine), 1975 (Part time) A.B., M.S., M.D., Emory University School of Medicine, 1943

**Austin, Larry D.** Professor (Music), 1972 B.M., M.M., North Texas State University, 1952

**Austin, Martha L.** Professor (Education), 1963 B.A.; M.Ed.; Ph.D., University of Chicago, 1969

**Ayala, Rina P.** University Physician (Student Health Service), 1975 B.A.; M.D., Salamanca University, Spain, 1970

**Azar, Henry A.** Assistant Professor (Pathology), 1972 (Part time) B.A.; M.D., American University of Beirut, Lebanon, 1952
BLOMQVIST, ALLEN J. .......... Associate Professor (Psychology), 1971 St. Petersburg Campus
B.S., M.S., Ph.D., University of Wisconsin, 1960

BLOOM, SHERMAN ........... Associate Professor (Pathology), 1973
B.A., M.D., New York University, College of Medicine, 1960

BLOUNT, WILLIAM R. ....... Associate Professor (Criminal Justice Program), 1968
B.A.; M.A.; Ph.D., George Peabody College, 1969

BOBBITT, JUNE P. .......... Lecturer/Assistant Director (Southeast Center, Cooperative Education), 1975
B.S., University of South Florida, 1975

BOLER, K. REIT ............ Assistant Professor (Anatomy), 1970
B.A.; M.S., Ph.D., University of Mississippi, 1966

BOLIVAR, JULIO C. ......... Professor (Surgery), 1972 (Part time)
B.S., M.D., M.D., University of Paris, Sorbonne, 1940

BONDI, JOSEPH C., JR. ...... Associate Professor (Education), 1965

BOOY, BARBARA C. ......... Assistant Professor (Nursing), 1973
R.N.; B.S.N.; M.N.Ed., University of Pittsburgh, 1966

BORDEN, ARTHUR R. ........ Professor (Literature), 1975 Sarasota Campus
A.B., A.M., Ph.D., Harvard University, 1950

BORENS, HOLLIS G. ......... Associate Director (Medical Center), 1972
Associate Dean (College of Medicine), Professor (Internal Medicine), 1973
B.A.; M.D., Baylor University College of Medicine, 1946

BORG, JEAN M. ............. Lecturer (Education), 1972
B.S.; M.A., University of Illinois, 1962

BORG, JOHN .................. Instructor (Music/Violist), 1975 Sarasota Campus
B.M., M.A., University of Iowa, 1972

BORRAY, DONALD J. ........ Assistant Research (Marine Science), 1972
B.S., University of Rhode Island, 1975

BOSTOW, DARREL E. ........ Associate Professor (Education), 1970
B.A., M.A., Ph.D., Southern Illinois University, 1970

BOTERO, FERNANDO .......... Assistant Professor (Internal Medicine), 1973
B.S.; M.D., University of Antioquia Medical School, Medellin, Columbia, 1964

BOTT, WILLIAM K. .......... Professor (Education), 1960

BOULANT, JACK A. ......... Assistant Professor (Physiology), 1974
B.A.; Ph.D., University of Rochester School of Medicine and Dentistry, 1971

BOWEN, ADA M. ............. University Librarian (Medical Library), 1965
B.S., M.S., M.A., University of South Florida, 1971

BOWERS, JAMES C. .......... Professor (Electrical Engineering), 1965
B.E.; M.E.; Sc.D., Washington University, 1964

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

BOWERS, RICHARD T. ......... Director and Professor (Physical Education, Student Affairs), 1963
B.S.; M.S., Ed.D., George Peabody College, 1961

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

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

BOYD, HERBERT F. .......... Professor (Education), 1965
B.S.; M.S., Ph.D., University of Illinois, 1958

BRADLEY, ROBERT V. ......... Associate University Catalog Librarian (Libraries), 1959

B.A., M.A., Florida State University, 1957

BRADSHAW, ROBERT D. ....... Counselor to Students and Lecturer (Student Affairs), 1973
B.B.A., B.F.A., M.S., Miami University, Ohio, 1973

BRADY, HENRY G. .......... Associate Professor (Education), 1969
B.S.; M.Ed.; Ph.D., Florida State University, 1969

BRADY, WILLIAM M. ......... Instructor (Mass Communication), 1963 (Part time)
B.S.; M.S., University of Illinois, 1967

BRAIN, LAWRENCE A. ....... Assistant Professor (Psychiatry), 1975
B.S.; M.D., Monash University, Melbourne, Australia, 1967

BRAMAN, ROBERT S. ......... Professor (Chemistry), 1967
B.S.; Ph.D., Northwestern University, 1966

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

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

BRANTLEY, BETTY C. ......... Associate Professor (Education), 1968
B.S.; M.Ed.; Ph.D., Florida State University, 1970

BRAY, LLOYD J., JR. ........ Lecturer (Fine Arts), 1973
B.A.; M.A., University of North Carolina, 1965

BREED, FRANK D. .......... Associate Professor (Education), 1968
B.S.; M.Ed., Ph.D., University of Texas, 1968

BRIDGES, VIRGINIA A .. Associate Professor and Program Director (Education), 1964
B.M.Ed., M.A., Ph.D., Ohio State University, 1965

BRIDGES, WINSTON T., JR. ... Assistant Professor (Education), 1970 St. Petersburg Campus
B.A., M.Ed., Ph.D., University of Florida, 1975

BRIDGES, JOHN C. ........... Professor (Biology), 1964
B.S., M.A., Ph.D., Stanford University, 1952

BRIGHTWELL, J. RICHARD ... Director (Continuing Education), 1964
B.S., M.A., Ohio State University, 1947

BRIGHTWELL, RUTH G. ....... Counselor/Adviser (Education), 1969 (Part time)
B.S., M.S., Ph.D., Florida State University, 1968

BRIEST, FRED D., III ....... Systems Coordinator (Regional Data Center), 1970
B.S.E., University of South Florida, 1971

BRITTON, JACK R. .......... Professor (Mathematics), 1967
B.A., Ph.D., University of Colorado, 1936

BRODSKY, SIDNEY J ........... Assistant Professor (Pediciatrics), 1974 (Part time)
M.D., State University of New York, Upstate Medical Center, 1962

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

BROOKER, ANITA .......... Associate in Violin, 1975 Sarasota Campus

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

BROOKS, ROBERT D. .......... Professor/Chairperson (Speech Communication), 1974
A.B.; M.A., Ph.D., Cornell University, 1965

BROWN, CURTIS J. ....... Counselor and Adviser (Business), 1972
B.S., Florida A & M University, 1961

BROWN, HUGH K. .......... Assistant Professor (Anatomy), 1974
B.S.; M.S.; Ph.D., Tulane University, 1974

BROWN, LARRY N. .......... Associate Professor (Biology), 1967
B.S.; M.A., Ph.D., University of Missouri, 1962

BROWN, MARILYN G. ....... Lecturer (Sociology), 1974
B.A.; M.S.W., University of North Carolina, 1951

BRUCE, RITA G. .......... Associate Professor (Education), 1970
B.S., M.S., Ed.D., West Virginia University, 1965

BRUNHILD, GORDON ......... Professor (Economics), 1960
B.S., M.B.A., Ph.D., University of Southern California, 1957

BRUS, JAMES J. ........... Director (Information Services), 1973
B.S., Ohio University, 1950
CAMP, ALMA G. ............ Assistant Professor (English), 1972
B.S., M.A., Columbia University, 1965

BRYANT, FREDDY D. .......... Director (Medical Center Library), 1971
A.B., M.S.L.S., Emory University, 1947

BRYANT, HAYDEN C., JR. ........ Associate Professor-Director (Education) 1967
B.A., M.A., George Peabody College, 1957

BRYANT, TRUMAN R. ........ Visiting Assistant Professor (Biology), 1974

B.S., M.S., Ph.D., University of Texas, 1966

BUCKINGHAM, JOHN L. .................. University Physician (Student Health Service, Student Affairs), 1975
B.S.; M.P.H.; M.D., Bowman Gray School of Medicine, 1959

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

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

BULLOCK, JOHN T. ................. Associate Professor (Education), 1966

BURDICK, GLENN A. ............ Professor (Electrical Engineering), 1965
B.S., M.S., Ph.D., Massachusetts Institute of Technology, 1961

BURR, RUSSELL E. ................. Associate Professor-Assistant Chairperson (Chemical Engineering), 1970
B.A., M.A., M.T., Louvain, Belgium, 1960

Burr, Russell K. .................. Associate Director (Veterans Affairs, Student Affairs), 1973
B.A., University of South Florida, 1972

BURTON, ROBERT H. ............. Associate Professor (Economics), 1963
B.B.A., B.A., B.S., University of South Florida, 1967

B.A.; M.A.; Ph.D., University of North Carolina, 1970

BUSOT, J. CARLOS .................. Associate Professor-Assistant Chairperson (Chemical Engineering), 1970
B.S., M.S., Ph.D., University of Florida, 1970

BUSTA, JOSEPH ........ asleep. Assistant to the President (President's Office), 1973
B.S.; M.S., University of Tennessee, 1972

BUTLER, CHARLES W. ........... Director (Physical Plant), 1965
B.A., Lincoln Memorial University, 1942

BUTLER, JAMES R. ......... Assistant Professor (Chemistry), 1975 Sarasota Campus
B.S., Ph.D., University of Texas, Austin, 1972

BUTLER, PAUL L. ............ Lecturer (Florida Center), 1974
Affiliate Lecturer (Theatre), 1974
B.A.; M.F.A., Yale University School of Drama, 1971

BUTTERFIELD, JOHN E. .......... Head Baseball Coach (Physical Education, Student Affairs), 1974
B.S., University of Maine, 1953

BYNE, LUIS O. ........................ Assistant Professor (Psychiatry), 1975 (Part time)
M.D., San Marcos University, Lima, Peru, 1964

CAPLE, JACOB C., III .............. Assistant Professor (Linguistics), 1970
A.B., A.M., Ph.D., Indiana University, 1974

CADDOWELL, EDWARD ............ Director-Associate Professor (Testing and Evaluation), 1965
B.S., M.S., Ed.D., Florida State University, 1958

CAMERON, WM. BRUCE .......... Professor (Sociology), 1964
B.A., M.A., Ph.D., University of Wisconsin, 1952

CAMP, JOHN W. .................. Associate Professor (Linguistics), Program Director (Liberal Studies), 1964
B.M., M.M., Ph.D., Florida State University, 1964
CHISNELL, ROBERT E. .... Associate Professor (English), 1967
B.A., M.A.; Ph.D., Auburn University, 1971

CHOPIN, SUZETTE F. .... Instructor (Anatomy), 1975
B.S., M.S.; Ph.D., Louisiana State University Medical Center, 1974

CHRISTENSEN, JAMES A. .... Instructor (Surgery), 1973 (Part time)
A.B., M.D., Indiana University, 1968

CLIBERTO, E. FRANK .... Assistant Professor
(Family Medicine), 1975
B.A., M.D., Syracuse University College of Medicine, 1951

CIMINO, LOUIS E. .... Associate Professor
(Pediatrics), 1974 (Part time)
B.S.; M.D., St. Louis University, 1950

CLAPP, ROGER W., JR. .... Associate Professor (Physics), 1963
B.S.; M.S., Ph.D., University of Virginia, 1954

CLARK, WILLIAM E. .... Professor (Mathematics), 1970
B.A.; M.A., Temple University, 1961

CLEARY, FRANK L. .... Professor (Mathematics), 1965
B.A., M.Ed., University of Michigan, 1965

CLEARY, WILLIAM E. .... Professor (Mathematics), 1970
B.A.; Ph.D., Tulane University, 1964

CLAYTON, GLENN DON E. .... Assistant Professor (English), 1969
B.A.; M.A.; Ph.D., Auburn University, 1971

CLAYTON, LYNN P. .... Assistant Professor (Psychology), 1970
B.A., M.S., Ph.D., Florida State University, 1970

CLEAVER, FRANK L. .... Professor (Mathematics), 1960
B.S.; M.S., Ph.D., Tulane University, 1960

CLEMENT, DAVID E. .... Professor (Psychology), 1965
B.S., Ph.D., Johns Hopkins University, 1963

CLINE, RALPH .... Assistant Professor (Education), 1971
B.S., M.S.; M.A., University of Florida, 1971

CLIFTON, PAUL A. .... Assistant Professor (Arts), 1971
B.A., Oregon State University, 1968

CLOUGH, W. LYNNODDON .... Professor (Classics), 1975
B.S.; M.A., Queen's College, Cambridge, 1938

COAN, RICHARD P. .... Coordinator (Social and Behavioral Sciences), 1975

COOK, ROBERT G. .... Professor-Chairperson (Finance), 1975
B.S.; M.B.A.; M.D., University of Pennsylvania, 1956, C.P.A.

COSS, CALVET J. .... Associate Professor-Program Director (Education), 1967
B.S., M.S., University of Illinois, 1951

CRAIG, HAROLD S. .... Associate Professor
(Internal Medicine), 1972 (Part time)
B.A.; M.D., University of Pittsburgh School of Medicine, 1961

CRAIN, ROGER G. .... Assistant Professor (Engineering), 1974
B.S.; M.S.; Ph.D., Auburn University, 1973

CROCKETT, MARGARET E. .... Professor (Education), 1961
B.S.; M.S.; Ed.D., University of Florida, 1970

CRITTON, JERRY W. .... Associate Professor
(Communicology), 1971
B.S.; M.A., Ph.D., Michigan State University, 1969

CROFT, JAMES E. .... Associate Professor (Education), 1972
B.M.E.; M.A.; D.M.E., University of Oklahoma, 1970

Cunningham, PAULA M. .... Counselor to Students/Instructor
(Housing and Food Services, Student Affairs), 1975
B.S.; M.A., Bowling Green University, 1975

Cunningham, WILLIAM K. .... Associate Professor (Marketing), 1971
B.A.; M.B.A.; Ph.D., University of Texas, 1970

Curran, JOHN S. .... Associate Professor (Pediatrics), 1972
A.B.; M.D., University of Pennsylvania, 1966

Currey, CECIL B. .... Professor (History), 1967
B.A.; M.S.; M.F.A., University of Florida, 1970

Curts, ROBERT D. .... Professor (Economics), 1974
B.S.; M.A., Ph.D., Indiana University, 1965

Czyzewski, PAUL V. .... Assistant Professor (Education), 1974
B.S., M.S., Indiana University, 1966

Dale, JOSEPH J. .... Assistant Professor
(Experimental Psychology), 1975
B.A.; M.A.; Ph.D., University of South Florida, 1973

Daly, JOHN W. .... Associate Professor (Finance), 1974
B.A.; M.A., Ph.D., Fordham University, 1969

Daly, J. H. .... Associate Professor (Education), 1964
B.A.; M.Ed.; Ed.D., University of Tennessee, 1970

Danh, J. H. .... Student Affairs Coordinator (Student Publications, Student Affairs), 1974
B.A., M.A., Ph.D., Cornell University, 1963

Daney, ROBERT D. .... Associate Professor
(Surgery), 1974 (Part time)
B.S., M.D., American University of Beirut, 1965
GLEMAN, GELINAS, ROBERT W. .......................... Associate Professor (Visual Arts), 1963
FRANCIS, ROY G. .......................... Professor/Chairperson (Sociology), B.A.; M.A.; Ph.D., University of Wisconsin, 1950
FRANQUES, JOHN T. .......................... Assistant Professor (Engineering), 1971
B.S.; M.S., Ph.D., Louisiana State University, 1971
FREIDIO, TOM D. .......................... Associate Professor (Education), 1968
FRESHOUR, FRANK W. .......................... Associate Professor (Education), 1969
B.S.; M.Ed.; Ed.D., University of Florida, 1970
FRIED, FRANK E. .......................... Professor (Biology), 1960
B.A., Ph.D., University of Minnesota, 1958
FRIEDL, FRANK E. .......................... Professor (Biology), 1967
B.A.; M.A.; Ph.D., University of Florida, 1950
GARCIA, OSCAR N. .......................... Professor-Chairperson (Electrical Engineering), 1970
B.S.E.E., M.S.E.E., Ph.D., University of Maryland, 1969
GARCIA, SANDRA A. .......................... Assistant Professor (Psychology), 1974
B.A.; M.A.; Ph.D., University of Southern California, 1971
GARDNER, MELVYN I. .......................... University Psychiatrist (Student Health Service, Student Affairs), 1969
B.A., M.D., Temple University, 1944
GARMS, CORRIE P. .......................... Assistant Professor (Internal Medicine), 1974
B.S.; Ph.D., Vanderbilt University, 1972
GARRETT, CARLETON T. .......................... Assistant Professor (Pathology), 1973
A.B.; M.D., Johns Hopkins School of Medicine, 1966
GARRETT, SAMUEL J. .......................... Professor-Assistant Chairperson (Electrical Engineering), 1967
B.E.E.; M.S.E.E., Sc.D. University of Pittsburgh, 1963
GARRETT, WILLIAM .................. .......................... Associate Professor (English), 1960 St. Petersburg Campus
B.S., M.A., Ph.D., University of Florida, 1958
GATES, JEAN K. .......................... Associate Professor-Acting Program Director (Education), 1966
B.A., M.S.L.S., Catholic University of America, 1951
GEIGER, GARREN .................. .......................... Coordinator (Education), 1969
B.A.; Ph.D., University of South Carolina, 1968
GELNIS, ROBERT W. .......................... Associate Professor (Visual Arts), 1963
GESSMAN, ALBERT M. .......................... Professor (Religious Studies), 1961
B.A.; M.A.; Ph.D., University of Vienna, 1950
GILMORE, ALDEN S. .......................... Associate Professor (Interdisciplinary Social Science), 1961
B.A., M.A., Florida State University, 1957
GILMORE, ROBERT .......................... Associate Professor (Physics), 1971
B.S., Ph.D., Massachusetts Institute of Technology, 1967
GLASS, HARVEY .................. .......................... Associate Professor (Systems Engineering), 1969
B.S., M.S., S.C., Washington University, 1965
GLEMAN, STUART N. .......................... Assistant in Research (Physics), 1973
B.S., M.S., University of Miami, Florida, 1970
GLENISON, EMILE G. .......................... Associate Professor (Foreign Languages), 1967
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GLOVER, JAMES P. .......................... Visiting Instructor (Communication), 1968
B.S., Eastern Illinois University, 1949
GLOVER, KOFI R. A. .......................... Assistant Professor (African-American Studies), 1972
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GOFORTH, FRANCES S. .......................... Associate Professor (Education), 1967
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GOLDING, LOIS A. .......................... Associate Professor (Music Arts), 1962
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GOODMAN, ADOLPH W. .......................... Distinguished Professor (Mathematics), 1964
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B.S.E.E., M.S.E.E., Sc.D., Columbia University, 1954
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HOGUE, MARGARET A. ................... Assistant University Librarian (Libraries), 1970
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HOLLAND, MARGARET S. ................. Lecturer (Education), 1966
B.A., M.A.T., Duke University, 1961
HOLLEY, JOHN W. ....................... Assistant Professor (Sociology), 1971
B.A., M.S., Ph.D., Florida State University, 1971
HOLMES, ROLAND C. ..................... Instructor (Geography), 1974
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HOLT, THOMAS M. ....................... Assistant Professor (Anatomy), 1974
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B.A., M.A., Ph.D., Indiana University, 1958
HORSMAN, DAVID A. E. ............... Assistant Professor (Mass Communications), 1970
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HOUK, C. WESLEY ....................... Coordinator of Advising and Graduate Studies and Associate Professor (Fine Arts), 1961
B.A.; M.F.A., University of Iowa, 1950
HOWARD, DENNIS R. ................... Professor - Chairperson (Family Medicine), 1975
B.S., M.D., University of Wisconsin, 1962
HOSKINS, VICTOR ....................... Associate Dean (Internal Medicine), 1970
B.S., M.D., Indiana University, 1955
HUGG, RICHARD ......................... Professor (Visual Arts), 1972
B.S., M.S., Ph.D., Iowa State University, 1957
HURWITZ, HARRY L. ..................... Associate Professor (Physical Education; Student Affairs). 1965
B.A., M.A., Harvard University, 1942
HUMM, HAROLD J. ...................... Professor (Marine Science), 1966 St. Petersburg Campus
B.S.; M.S., Ph.D., Duke University, 1945
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B.S., M.A., Ed.D., Stanford University, 1942
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HURWITZ, HARRY L. ..................... Associate Professor (Visual Arts), 1973
B.A., M.A., New York University, 1963
IARDO, DOMENICK ..................... Assistant Professor (Foreign Languages), 1970
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ILES, MALLORY W. ..................... Assistant Professor (Speech Communication), 1972
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B.S., M.A., University of California, (Psychology), 1964
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ISBELL, ROBERT G. ..................... Associate Professor (Radiology), 1973 (Part time)
B.A.; M.D., University of Michigan Medical School, 1964
JAEGER, RICHARD ....................... Professor (Education), 1971
B.A., M.S., Ph.D., Stanford University, 1970
<table>
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<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Degrees/Institution</th>
<th>Years/Notes</th>
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<tr>
<td>JAESCHKE, DONALD P.</td>
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<td>B.S.; M.S., Ph.D., Florida State University, 1971</td>
<td>1963</td>
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<td>JAIN, VIJAY K.</td>
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<td>JAMES, RUBELLA</td>
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<td>1972</td>
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<td>1973</td>
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<td>1970</td>
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<td>1969</td>
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<td>JOHNSON, FRANK F. J.</td>
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<td>1967</td>
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<td>JOHNSON, Gordon A.</td>
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<td>1970</td>
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<td>JOHNSON, Roger E.</td>
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<td>1967</td>
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<td>1974</td>
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<td>1970</td>
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<td>1975</td>
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<td>1969</td>
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<td>1966</td>
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<td>1969</td>
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<td>1968</td>
</tr>
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<td>KEANE, GREGORY G.</td>
<td>Instructor (Accounting)</td>
<td>B.S.; M.B.A., Florida State University, 1971, C.P.A.</td>
<td>1974</td>
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<td>KEANEY, KEVIN E.</td>
<td>Director and Associate Professor (Bachelor of Independent Studies)</td>
<td>B.A., M.S., Ph.D., University of Florida, 1960</td>
<td>1969</td>
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<td>KEEFER, HAROLD J.</td>
<td>Professor (Education)</td>
<td>B.S., M.S., Ed.D., College of Charleston, 1956</td>
<td>1969</td>
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<td>KEEGER, WAYNE L.</td>
<td>Associate Professor (Education)</td>
<td>B.S.; M.Ed., Ed.D., University of Florida, 1963</td>
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<td>KEITH, JOHN E.</td>
<td>University Acquisition Librarian (Libraries)</td>
<td>B.S.; Ph.D., Vanderbilt University, 1973</td>
<td>1974</td>
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<td>KELLER, ROY L.</td>
<td>Assistant Professor (Economics)</td>
<td>B.A., M.S., Ph.D., Florida State University, 1961</td>
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<td>KELLER, RONALD K.</td>
<td>Assistant Professor (Biochemistry)</td>
<td>B.S.; Ph.D., Vanderbilt University, 1973</td>
<td>1963</td>
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<td>KELLEY, STUART W.</td>
<td>Assistant Professor (Political Science)</td>
<td>B.S.; M.S., Ph.D., University of Florida, 1963</td>
<td>1961</td>
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<td>KENDALL, HARRY W.</td>
<td>Professor (Physics)</td>
<td>B.S., M.S., Ph.D., University of Michigan, 1960</td>
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<td>KENNEDY, JAY B.</td>
<td>Associate Professor (Economics)</td>
<td>A.B., M.A., Ph.D., Indiana University, 1961</td>
<td>1966</td>
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Kerns, Allen F. .................. Instructor (Education), 1974
Kerns, Robert L. .................. Associate Professor (Music Communications), 1972
B.A.; M.S.T.; M.S.Ed., Florida State University, 1971

Kessler, Evelyn S. .................. Associate Professor (Anthropology), 1967
B.S.; M.A., Ph.D., Columbia University, 1970

Ketchersid, Arthur L. .................. Assistant Director (Libraries), 1973
B.S., M.S., Florida State University, 1961

Khorsandian Jan K. .......................... Assistant Professor (Music Arts), 1971

Kim, H. Harry ........................... Assistant Professor (Geography), 1974
B.A.; M.A., Ph.D., University of Washington, 1971

Kim, H. Harry ........................... Assistant Professor (Education), 1968
B.A.; M.A., Ph.D., Florida State University, 1965

Kim, H. Harry ........................... Assistant Professor (Psychology), 1968
B.S., M.A., Ph.D., Florida State University, 1965

Kimmer, Ellen B. ...................... Professor (Education), 1968
A.B.; M.A., Ph.D., University of Florida, 1968

Kim, H. Harry ........................... Assistant Professor (Education), 1968
B.S., M.A., Ph.D., Florida State University, 1965

Kim, H. Harry ........................... Associate Professor (History), 1967
A.B., M.R.C., Ed.D., University of Florida, 1965

Kinde, Stewart W. ................. Associate Professor and Chairperson (Communicology), 1965
B.S., M.S., Ph.D., Michigan State University, 1972

King, Arline T. ....................... Assistant University Catalog Librarian (Libraries), 1964
B.A.; M.A.; M.S.L.S., Florida State University, 1970

King, Charles E. ..................... Associate Professor (Biology), 1972
B.A.; M.S.; Ph.D., University of Washington, 1965

King, Raymond C. .................... Director (University Housing), 1965
A.B.; M.A., Columbia University, 1961, Prof. Diploma

Kleg, Milton .......................... Associate Professor (Education), 1970
A.B., M.A., Ed.D., University of Georgia, 1970

Klein, Thomas W. ..................... Assistant Professor (Medical Microbiology), 1973
B.S., Ph.D., Creighton University, 1972

Kleine, Georg-Helmut ............... Associate Professor (History), 1968
Ph.D., University Erlangen-Nurnberg, 1967

Klesius, Janelle P. .................. Instructor (Education), 1972
A.B.; M.A., University of South Florida, 1972

Klesius, Stephen E. .............. Associate Professor-Program Director (Education), 1969
B.S., M.S.; Ph.D., Louisiana State University, 1968

Kluken, Philip G. .................... University Counseling Psychologist (Counseling Center; Student Affairs), 1971
B.A., M.A., Ph.D., University of Florida, 1971

Kneiberg, Don W. ..................... Associate Professor (Music Arts), 1968
B.A.; M.M., Indiana University, 1962

Kneg, John M. ....................... Associate Professor (Education), 1975
M.A., Ph.D., Indiana University, 1974

Knepper, Edith G. .................... University Librarian (Libraries), 1975
B.S.; M.S.L.S., University of Kentucky, 1960

Knippen, Jay T. ...................... Associate Professor (Management), 1970

Knox, Robert H. ....................... Professor (Literature), 1975, Sarasota Campus
A.B., Ph.D., Harvard University, 1959

Kopp, Edgar W. ..................... Dean and Professor (Engineering), 1964
B.N.S., B.I.E., M.S.I.E., Georgia Institute of Technology, 1947, P.E.

Kornanyos, Edward C. .............. Assistant Research Scholar (Education), 1975

B.S., M.Ed.; Ed.D., University of Florida, 1974

Krug, Stanley C. ..................... Associate Professor (Engineering), 1972
B.S.; M.S.E., Ph.D., Northwestern University, 1968

Kraus, Allan D. ...................... Lecturer (Technology Engineering), 1971
B.E., M.S.M.E., M.E.E., Brooklyn Polytechnical Institute, 1958

Kronnoble, Jeffrey M. ............ Professor (Visual Arts), 1963
B.S.; M.F.A., University of Michigan, 1963

Kruschowitz, Walter H. ............. Associate Professor (Physics), 1967
A.B.; M.A.; Ph.D., University of Michigan, 1961

Krauzowski, Joseph J. .......... Associate Professor (Pharmacology), 1971
B.S.; M.S., Ph.D., University of Tennessee, 1968

Kuffel, Constance F. ............... Instructor (Communicomy), 1969
B.A., M.A., University of South Florida, 1968, C.C.C.

Kummerfeld, Janet E. ............... Counselor to Students/Instructor (Housing and Food Services; Student Affairs), 1974
B.S., M.S., Iowa State University, 1974

Kusner, Gilbert ..................... Professor and Chairperson (Anthropology), 1970
B.A., M.A., Ph.D., University of Arizona, 1968

Kutcher, Louis W., Jr. ............. Assistant Professor (Sociology), 1967
B.A., M.S., Ph.D., University of Minnesota, 1972

Labarr, Richard C. ................. Professor (Psychology), 1966
B.A.; Ph.D., University of Tennessee, 1965

Lagodna, Martin M. ............... Assistant Professor (History), 1970
B.A., M.A., Ph.D., University of Florida, 1970

Lambeth, David O. ................. Assistant Professor (Chemistry), 1973
B.S.; M.S.; Ph.D., University of Wisconsin, 1971

Lanclz, Gerald J. ................... Assistant Professor (Medical Microbiology), 1971
B.A., M.S., Ph.D., Northwestern University, 1970

Landmsan, Murray J. ............... Associate Professor (Rehabilitation Studies Program), 1969
B.S., M.A., Ph.D., University of Florida, 1964

Lantz, Donald L. ..................... Professor—Program Director (Education), 1961
B.A., M.A., Ph.D., University of Minnesota, 1961

Larsen, Meri Net L .................. Associate Professor (Visual Arts), 1967
B.F.A.; M.F.A., Indiana University, 1965

Lasseter, James, Jr. ................. Assistant Professor (Accounting), 1966
B.S.; M.B.A., University of Chicago, 1964, C.P.A.

Latina, Albert A. .................... Lecturer (Biology), 1960
B.A.; M.S., Florida State University, 1960

Lavely, Carolyn D. ................. Associate Professor (Education), 1970
B.A., M.A., Ph.D., Syracuse University, 1968

Lawrence, John M. .................... Professor (Biology), 1965
B.S., A.M., Ph.D., Stanford University, 1965

Lawson, Steven F. ................. Assistant Professor (History), 1972
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B.A.; M.A., Ph.D., Columbia University, 1974

Lax, Bernard ................. Associate Professor (Education), 1969
B.A., M.A., Ph.D., University of Texas, 1970

Lay, Coy L. ....................... Associate Professor (Obstetrics and Gynecology), 1973 (Part time)
B.A.; M.S.; M.D., University of Texas, 1946

Layden, William E. ................... Associate Professor (Ophthalmology), 1972
B.A., M.D., University of Vermont, 1963

Layman, Jay S. ..................... Associate Business Manager (Medical Center), 1971
B.S., Florida State University, 1968

Leavengood, Lee B. ................. Counselor/Adviser (University Studies, Student Affairs), 1973
B.S.; M.A., University of South Florida, 1973
MANNINGER, RICHARD P. .......... Assistant Professor (Physiology), 1971
B.S.; Ph.D., University of Kentucky, 1971

MERICA, JOHN A. ....... Assistant Professor (Education), 1968
B.A., M.S., Ph.D., Syracuse University, 1971

MERRER, DIANE T. ........ Associate Professor/Assistant Chairperson (Biology), 1967
B.S.; M.A., Ph.D., Duke University, 1963

MERRIAM, HARLAND C. ....... Professor (Education), 1969
B.S.; M.Ed., Ed.D., Harvard University, 1959

MERRIAM, KEMPER W. ....... Professor (Accounting), 1967

MESSINA, ANTHONY M. ....... Assistant Professor (Obstetrics and Gynecology), 1975
B.S.; M.D., University of Florida, 1970

MEYER, GEORGE H. .......... Assistant Professor (Mass Communications), 1975
B.A.; M.A., University of Florida, 1969

MEYER, HERBERT H. ....... Professor-Program Director (Industrial/Organizational Psychology), 1973
B.S.; M.S., M.A., Ph.D., University of Michigan, 1949

MEYER, RICHARD L. ...... Associate Professor (Finance), 1970
B.S., M.B.A., Ph.D., University of Wisconsin, 1971

MEYERBECKS, ANDREW J. ....... Professor (Biology), 1961
A.B.; Ph.D., Harvard University, 1958

MICHAEL, JAMES D. ....... Assistant University Librarian (Libraries), 1974
B.S.: M.S.L.S., Florida State University, 1974

MICHAELIDES, GEORGE J. ....... Associate Professor (Mathematics), 1961
B.S.; M.S.; Ph.D., University of Georgia, 1974

MICHAELIDES, THERESA B. ....... Instructor (Biology), 1973
M.B.A., Ph.D., University of Wisconsin, 1971

MILLER, ARTHUR M.C.A. ....... Associate Professor (Literature), 1975 Sarasota Campus
B.A.; M.A., Ph.D., Duke University, 1966

MILLER, GEORGE H. ...... Program Director (Southeast Center Cooperative Education Grant), 1960
B.A.; M.A., University of Hawaii, 1959

MILLER, KAREN L. .... Assistant in Research (Pediatics), 1975
B.A., Cedar Crest College, 1970

MILLER, MARGERET A. ....... Assistant Professor (Visual Arts), 1970
B.A.: M.A., University of Hawaii, 1970

MILLER, ROBERT L. ....... Instructor (Industrial Systems Engineering), 1971 (Part time)
B.S., M.S.E., University of South Florida, 1972

MITCHELL, RICHARD W. ....... Associate Professor (Physics), 1962
B.S.; M.S., Ph.D., Texas A&M University, 1960

MITCHELL, WILLIAM G. ....... Director Instructional Services (Educational Resources), 1974
B.A.; M.A.; Ph.D., Michigan State University, 1970

MOMROW, WILLIAM G. .... Assistant Professor (Finance), 1963
B.A., M.S., Texas A&M University, 1963

MOSLEY, LAURENCE E. ....... Professor (Education), 1960
B.S.; M.S., Ph.D., University of Florida, 1956

MUNRO, ANNETTA Y. ....... Instructor (Music Arts), 1973
B.M., Oberlin College Conservatory of Music, 1963

MUNRO, JAMES E. ....... Associate Professor (Accounting), 1970
B.A., M.A., Ph.D., University of Alabama, 1970

MOORE, HARVEY A. ....... Assistant Professor (Sociology), 1974
B.A.; M.S.; Ph.D., Case Western Reserve University, 1972

MOORE, JACOB B. ....... Professor (English), 1962
B.A.; M.A.; Ph.D., University of North Carolina, 1963

MOORE, JUDITH C. ....... Instructor (Education), 1973
B.A., M.A., University of South Florida, 1968

MOORE, JUNE A. ....... Assistant Professor (Anatomy), 1971
B.S.; Ph.D., University of Texas, 1971
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<tr>
<th>Name</th>
<th>Title/Role</th>
<th>Institution/University</th>
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<tr>
<td>Morgan, William T.</td>
<td>Associate Professor (American Studies)</td>
<td>University of Minnesota, 1970</td>
<td>B.A., M.A., Ph.D.</td>
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<td>Morley, Rosemary M.</td>
<td>Coordinator (Arts and Letters, Academic Advising)</td>
<td>1973</td>
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<td>Morrill, John B.</td>
<td>Professor (Biological), Coordinator (Environmental Studies)</td>
<td>1975, Sarasota Campus</td>
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<td>Morse, Yvonne L.</td>
<td>Assistant University Librarian (Medical Library)</td>
<td>1974</td>
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<td>Morris, William E.</td>
<td>Professor (English)</td>
<td>University of North Carolina, 1957</td>
<td>B.A., M.A.; Ph.D.</td>
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<td>Moseley, James G. Jr.</td>
<td>Assistant Professor (Religion)</td>
<td>Sarasota Campus</td>
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<td>Motto, Anna L.</td>
<td>Professor/Chairperson</td>
<td>Foreign Languages, 1973</td>
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<td>Mourer, Stephen A.</td>
<td>Associate Professor (Psychiatry)</td>
<td>University of North Carolina, 1953</td>
<td>B.A., M.A.; Ph.D.</td>
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<td>Motye, William F.</td>
<td>Instructor (Mass Communications)</td>
<td>Southern Illinois University, 1966</td>
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<td>Mukherjee, Arunava</td>
<td>Professor (Mathematics)</td>
<td>Wayne State University, 1967</td>
<td>B.Sc., M.Sc.; Ph.D.</td>
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<td>Muller, Gari</td>
<td>Assistant Professor (French Language and Literature)</td>
<td>1975 Sarasota Campus</td>
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<td>Mumme, Roy I.</td>
<td>Assistant Professor-Director (Fl. Myers Center)</td>
<td>1966</td>
<td></td>
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<tr>
<td>A.B., M.A.; M.Ed.</td>
<td>University of North Carolina, 1953</td>
<td>University of California, 1964</td>
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<td>Muniz, Amado L.</td>
<td>Assistant Professor (Psychiatry)</td>
<td>1972</td>
<td>(Part time)</td>
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<td>B.S.; M.D.</td>
<td>Havana University, 1960</td>
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<td>Murphy, Robert J.</td>
<td>Associate Professor (Economics)</td>
<td>1966</td>
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<td>Murty, Challa Ronda N.</td>
<td>Assistant Research Scientist (Pathology)</td>
<td>1972</td>
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<td>Musgrove, Walter J.</td>
<td>Associate Professor (Education)</td>
<td>St. Petersburg Campus, 1964</td>
<td>B.S., M.A.; Ed.D.</td>
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<tr>
<td>Naehring, Douglas C. E.</td>
<td>Assistant Professor (Systems Engineering)</td>
<td>1970 St. Petersburg Campus</td>
<td>B.E.; M.Sc., Ohio State University, 1949, 1964</td>
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<td>Nelson, Harvey W.</td>
<td>Assistant Professor (Interdisciplinary Social Science)</td>
<td>1972</td>
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<td>Nelson, Carnot E.</td>
<td>Associate Professor (Psychology)</td>
<td>1971</td>
<td>B.S.; Ph.D.; Columbia University, 1966</td>
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<td>Nelson, Douglas L.</td>
<td>Professor/Program Director (Psychology)</td>
<td>1967</td>
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<td>Nelson, Gid E. Jr.</td>
<td>Professor (Biology)</td>
<td>1960</td>
<td>A.B.; M.S.; Ph.D., University of Florida</td>
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<tr>
<td>Nelson, Louis R.</td>
<td>Director (Laboratory Animal Medicine)</td>
<td>1971</td>
<td>Asst. Professor (Pathology)</td>
<td></td>
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<tr>
<td>Neman, Edgar G.</td>
<td>Associate Professor (Sociology)</td>
<td>1968</td>
<td>B.S., M.S.; Ph.D., University of Florida</td>
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<td>Neeman, Marjorie P.</td>
<td>Counselor/Adviser (Education)</td>
<td>1969</td>
<td>(Part time)</td>
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<td>Ness, Gene C.</td>
<td>Assistant Professor (Biochemistry)</td>
<td>1974</td>
<td>B.S.; Ph.D., University of North Dakota</td>
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<td>Ness, Thomas E.</td>
<td>Associate Professor-Chairperson (Marketing)</td>
<td>1971</td>
<td></td>
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<td>Neugard, Edward J.</td>
<td>Professor (Foreign Languages)</td>
<td>1964</td>
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<tr>
<td>Neuman, Edgar G.</td>
<td>Associate Professor (Psychology)</td>
<td>1972</td>
<td>B.S.; M.A.; Ph.D., University of North Carolina</td>
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<td>Neville, Donald D.</td>
<td>Professor and Program Director (Education)</td>
<td>1972</td>
<td>B.S., M.S.; Ed.D., University of Florida</td>
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<td>Nixome, F. Hudson</td>
<td>Visiting Assistant Professor (Chemistry)</td>
<td>1974</td>
<td>B.S.; Ph.D.; University of Georgia, 1972</td>
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<td>Noer, Rudolf J.</td>
<td>Professor Emeritus (Surgery)</td>
<td>1970</td>
<td>(Part time)</td>
<td></td>
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<tr>
<td>Northcutt, Travis J. Jr.</td>
<td>Professor and Dean (Social and Behavioral Sciences)</td>
<td>1972</td>
<td>B.S., M.S.; Ph.D.; M.Ph., University of North Carolina, 1959</td>
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<td>Norton, Bryan G.</td>
<td>Assistant Professor (Philosophy)</td>
<td>1975</td>
<td>Sarasota Campus</td>
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<td>Ober, Richard L.</td>
<td>Professor (Education)</td>
<td>1969</td>
<td>B.S.; M.A.T.; Ph.D., Ohio State University, 1966</td>
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<td>Oberhofer, Stone W.</td>
<td>Assistant University Librarian (Libraries)</td>
<td>1974 St. Petersburg Campus</td>
<td>B.A.; M.L.S., Rutgers University, 1967</td>
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<td>O'Brien, Patrick W.</td>
<td>Assistant Professor (German)</td>
<td>1975</td>
<td>(Part time)</td>
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<tr>
<td>Northcutt, Travis J. Jr.</td>
<td>Professor and Dean (Social and Behavioral Sciences)</td>
<td>1972</td>
<td>B.S., M.S.; Ph.D.; M.Ph., University of North Carolina, 1959</td>
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<tr>
<td>Norton, Bryan G.</td>
<td>Assistant Professor (Philosophy)</td>
<td>1975</td>
<td>Sarasota Campus</td>
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<td>Ochshorn, Judith</td>
<td>Assistant Professor (Psychology)</td>
<td>1967</td>
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<td>Ochshorn, Myron G.</td>
<td>Associate Professor (English)</td>
<td>1964</td>
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<td>O'Donnell, Edward</td>
<td>Assistant Professor (Geology)</td>
<td>1968</td>
<td></td>
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<td>O'Donnell, Maurice E.</td>
<td>Associate Professor (Political Science)</td>
<td>1967</td>
<td></td>
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<tr>
<td>O'Farrell, John F.</td>
<td>Instructor (Marketing)</td>
<td>1968</td>
<td></td>
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<td>Ohlaebulam, Festus U.</td>
<td>Associate Professor (Afro-American Studies)</td>
<td>1972</td>
<td></td>
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<tr>
<td>O'Hara, Robert C.</td>
<td>Professor (Linguistics)</td>
<td>1961</td>
<td>B.A., M.A., University of Louisville, 1953</td>
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</table>

**FACULTY AND ADMINISTRATIVE STAFF**
PASCAL, ROBERT R. ........................................ Assistant Professor (Pathology), 1975 (Part time)

A.B., M.D., Columbia College of Physicians and Surgeons, 1962

PASSELL, NICHOLAS ........................................ Assistant Professor (Mathematics), 1975, Sarasota Campus

B.A.; M.S., Ph.D., University of Chicago, 1969

PATOUILLE, RAYMOND A. .......................... Professor (Education), 1967

A.B., M.A., Ed.D., Columbia University, 1951

PATTERSON, GERALD E. .................. Assistant Professor (Education), 1971

B.A.; M.A., Ph.D., Ohio State University, 1970

PATTERSON, MICHAEL H. ................ University Planning Consultant (Facilities Planning), 1973

B.A., University of Florida, 1969

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B.A.; M.S., Ph.D., Florida State University, 1975

PAYNE, CHARLES E. ............ Associate Professor/Director (Engineering Technology), 1965

B.A.E., M.S.E., University of Florida, 1965, P.E.

PEARCEY, WALTER E. JR. .................. Instructor (Education), 1970

B.A., M.A., University of South Florida, 1971

PENNER, LOUIS A. ........... Associate Professor (Psychology), 1969

B.A., M.A.; Ph.D., Michigan State University, 1969

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B.A.; M.A., Ph.D., University of Michigan, 1974

PEREZ, LOUIS A., JR. .................. Associate Professor (History), 1970

B.A.; M.A.; Ph.D., University of New Mexico, 1970

PERSKY, DAVID W. .......................... Counselor to Students and Lecturer (Housing and Food Services; Student Affairs), 1973

B.A.; M.S., Miami University, Ohio, 1973

PETERS, DONOVAN D. .......................... Associate Professor (Education), 1968

B.S.; M.A.; Ph.D., University of Pittsburgh, 1970

PEVICK, STEPHEN H. .................. Assistant Professor (Visual Arts), 1972

B.A.; M.F.A., Washington University, 1972

PFOST, H. PHILIP .................. Associate Professor (Education), 1967

B.A.; M.Ed.; Ed.D., George Peabody College, 1966

PHILLIPPI, STEVEN W. ........ Associate in Education, 1974

B.A., M.B.A., University of South Florida, 1974

PHILLIPS, EARNEST R. ........ Associate Professor (Education), 1971

B.S.; M.A.; Ph.D., Purdue University, 1971

PHILLIPS, STEVE JR. .................. Associate Professor (Industrial Systems), 1974

B.S.M.E.; M.B.A.; M.S.; Ph.D., University of Illinois, 1974

PICKERING, MICHAEL J. .......................... Associate Professor (Internal Medicine), 1972

B.S., M.D., University of Florida, 1961

Pierce, Carmel J. .................. Counselor/Adviser (Education), 1970 St. Petersburg Campus

B.S., University of South Carolina, 1945

PINKARD, CALVIN M. ........ Program Director and Associate Professor (Rehabilitation Counseling Program), 1964

A.B.; B.D.; M.A., Ph.D., University of Florida, 1959

PINNER, SHARON .................. Counselor/Adviser (Education), 1975 (Part time)

B.A.; M.A., Indiana University, 1974

POLF, JANET O. .................. Assistant Professor (Experimental Psychology), 1975 Sarasota Campus

B.A.; M.S., Ph.D., University of Oregon, 1975

POLLET, ROBERT J. .................. Assistant Professor (Internal Medicine), 1974 (Part time)

A.B.; Ph.D., M.D., New York University School of Medicine, 1969

PULSON, JAMES B. .................. Associate Professor (Pharmacology), 1971

B.A.; M.S., Ph.D., University of Missouri, 1968

POPE, JAMES S. ........... Lecturer (Education), 1966

B.A.; M.A., University of South Florida, 1967

POPOVICH, HELEN H. ........ Associate Professor/Associate Chairperson (English), 1966

B.A.; M.A.; Ph.D., University of Kansas, 1965
POPOVICH, JAMES E. .......................... Professor (Speech Communication), 1962
B.A., M.A.; Ph.D., Northwestern University, 1955

POTHOVEN, KENNETH L. ................. Associate Professor (Mathematics), 1970
A.B.; M.A., Sp.A., Ph.D., Western Michigan University, 1969

POWELL, ROBERT W. .......................... Associate Professor (Psychology), 1966
B.A.; M.A.; Ph.D., Florida State University, 1966

POWELL, RUDOLPH F. .......................... Counseling Psychologist (Counseling Center, Student Affairs), 1974
B.A.; M.S., Florida State University, 1973

POWER, FRED B. .......................... Associate Professor (Finance), 1964
B.S., M.Ed., University of Florida, 1964

POWERS, PAULINE S. .......................... Assistant Professor (Psychology), 1968
A.B.; M.D., University of Iowa, 1971

PRATHER, SAM W. .......................... Associate Professor (Physics), 1971
B.S.; M.S., Florida State University, 1953

PREDOOR, EDWARD .................. Professor (Music Arts), 1960
B.M., M.M., Eastman School of Music, 1937

PRICE, WILLIAM M. .......................... Associate Professor (Foreign Languages), 1963
B.A.; M.A.; Ph.D., Rutgers University, 1967

PRIEST, RICHARD F. .......................... Assistant Professor and Director (Education), 1969
B.A.; M.A., Columbia University, 1951

PRINCE, FRED L. .......................... Associate Professor (Education), 1971
B.S.; M.S., Education University of Houston, 1971

PROCHERA, JOHN S. .......................... Instructor (Political Science), 1974
B.A.; M.A., Michigan State University, 1971

PROCKOP, LEON D. .......................... Professor (Internal Medicine), 1973
B.A.; M.D., University of Pennsylvania, 1959

PROSS, SUSAN H. .......................... Instructor (Medical Microbiology), 1975
B.S.; Ph.D., University of Pennsylvania, 1975

PUGLISI, DICK J. .......................... Assistant Professor (Education), 1969
B.A.; M.A.; Ph.D., Georgia State University, 1973

PULIN, ALFRED B. .......................... Curator (Chemistry), 1969
B.A.; M.S., Case Western Reserve University, 1940

PULLIAM, DAVID M. .......................... Acting Director (University Center, Student Affairs), 1966
B.S., High Point College, 1959

PURLAND, DANIEL M. .......................... Professor (Education), 1968
B.A., M.A.; Ed.D., University of California, Los Angeles, 1967

PYLE, THOMAS E. .......................... Associate Professor (Marine Science), 1969 St. Petersburg Campus
B.A.; M.S., Ph.D., Texas A & M University, 1972

RABER, DOUGLAS J. .......................... Associate Professor (Chemistry), 1970
A.B.; Ph.D., University of Michigan, 1968

RACKOW, JEANNE R. .......................... Assistant Professor (Nursing), 1973
B.S.; M.S., Cornell University, 1950

RADLOFF, JOHN E. .......................... Academic Administrator (Education), 1966
B.A., University of South Florida, 1965

RAGAN, WENDELL J. .......................... Professor (Geology), 1960
B.S.; M.S., Ph.D., University of Missouri, 1959

RAMSEUR, HENRY M. .......................... Assistant Professor (Ophthalmology), 1973 (Part time)
M.D., Medical College of South Carolina, 1964

RANDALL, ELLSWORTH J. .......................... Provisional Instructor (Marketing), 1975
B.A., M.B.A., University of South Florida, 1972

RASMUSSEN, HENRY .......................... Assistant Professor (Mathematics), 1972
B.S.; M.S.; M.S., Ph.D.; Ph.D., Virginia Polytechnic Institute and State University, 1972

RATLIFF, JOHN L. .......................... Associate Professor (SMF-Engineering), 1969
B.S.; M.S.; Ph.D., Ohio State University, 1969

RATTI, JOGINDAR S. .......................... Professor (Mathematics), 1967
B.S., M.S.; Ph.D., Wayne State University, 1966

RAY, JAMES D., JR. .......................... Professor—Dean (Natural Science), 1959
B.S., M.S.; Ph.D., University of Illinois, 1951

READER, WILLIE D. .......................... Associate Professor (English), 1963
A.B., M.A.; Ph.D., University of Florida, 1962

READING, ANTHONY M. .......................... Chairperson/Professor (Psychiatry), 1975
M.D.; M.P.H., Sc.D., Johns Hopkins University, 1964

REALITY, MARTHA N. .......................... Associate Professor (Music Arts), 1963
B.A., M.M., University of Michigan, 1961

REDDING, BARBARA A. .......................... Assistant Professor (Nursing), 1975
B.S.; M.S.N., University of Pennsylvania, 1964

REED, DONNA Y. .......................... University Documents Librarian (Libraries), 1963
B.A.; M.S.L.S., Florida State University, 1963

REED, JAMES H. .......................... Associate Professor (Mathematics), 1963
B.A.; M.A., Ph.D., University of Maryland, 1969

REED, JANE G. .......................... Counselor and Adviser (University Studies), 1969
A.B.; M.A., University of Maryland, 1962

REILLY, J. TIM .......................... Associate Professor (Criminal Justice Program), 1965 St. Petersburg Campus
B.A., M.A.; J.D., Stetson University, 1958

REIS, RAYMOND E. .......................... Assistant Research Scholar/Scientist (Greater Tampa Alcohol Safety Action Project), 1975
B.A.; M.A., Ph.D., University of South Dakota, 1974

REITR, EDWARD O. .......................... Assistant Professor (Pediatrics), 1974
B.A.; M.D., University of Rochester School of Medicine, 1968

RENNE, ROGER .......................... Assistant Professor (Mathematics), 1975, Sarasota Campus
B.A.; M.A., University of California, Berkeley, 1963

REYNOLDS, JERALD M. .......................... Associate Professor (Music Arts), 1976
B.A.; M.M., University of Oregon, 1963

RHEE, JOONG G. .......................... Assistant in Education, 1974
B.S.E.E.; M.S.E.E., University of South Florida, 1973

RHOADES, FRED W. .......................... Counselor to Students/Instructor (Housing and Food Services, Student Affairs), 1975
B.A.; M.S., University of Tennessee, 1975

RICE, THOMAS A. .......................... Professor—Program Director (Aging Studies), 1961

RICHEY, JOYCE A. .......................... Systems Coordinator (Computer Research Center), 1960
B.S., University of Kentucky, 1935

RICKER, LAWRENCE H. .......................... Professor (Communicology), 1966
B.S., M.A., Ph.D., University of Florida, 1962

RIDDLE, RONALD W. .......................... Assistant Professor (Musicology), 1975, Sarasota Campus
A.B.; M.A.; Ph.D., University of Illinois, 1975

RIPFINK, STEPHEN I. .......................... Assistant Professor (Internal Medicine), 1974
B.A., M.D., University of Rochester, 1967

RIGGS, ROBERT C. .......................... Vice President (Academic Affairs), 1971
A.B.; M.S., Ph.D., University of Missouri, 1953

RIMBEY, DONALD H. .......................... Professor (Energy Conversion Engineering), 1967
B.S., M.S., Ph.D., University of Illinois, 1967, P.E.

RINGNESS, CHARLES O. .......................... Assistant Professor (Fine Arts), 1970
B.S., St. Cloud State College, 1968

RINE, PATRICIA O. .......................... Instructor-Assistant Director (Music Science), 1973 St. Petersburg Campus
B.S., Florida State University, 1953

RITTERMAN, ARTHUR .......................... Associate Professor (Communication), 1969
B.A.; Ph.D., Case Western Reserve University, 1968, C.C.C.
SPIELBERGER, CHARLES D. .............. Professor—Program Director (Psychology), 1972
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SPILLANE, JAMES R. .............. Assistant Professor (Humanities), 1966
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SPOTO, EDWARD, JR. .................. Associate Professor (Internal Medicine), 1973
B.S.; M.D., Tulane Medical School, 1964

SPREADS, DANIEL J. .............. Assistant Professor (Psychiatry), 1975
B.S., M.D., University of Oklahoma, 1957

SPORES, H. ALLAN ......... Assistant Professor (Education), 1971
B.S.; M.Ed., Ed.D., University of Georgia, 1973

STAFFORD, JOHN W. .............. Associate Professor and Chairperson (Geography), 1969
B.S., M.S.; M.A.; Ph.D., Michigan State University, 1971

STARK, ANDREW .......... Assistant Professor (Psychology), 1975
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A.B.; M.A., Ph.D., University of Connecticut, 1970

STEINER, H. EDWIN, JR. .............. Associate Professor (Education), 1969
B.S., M.A.; Ph.D., University of Texas, 1970

STEWART, GEORGE C. .......... Associate Professor (Economics), 1970
B.S.; Ph.D., University of California, Berkeley, 1963

STETZ, RAINNE E. .............. Professor (Foreign Languages), 1963
B.A., M.A., University of Arizona, 1972

STODDARD, EDWIN .......... Assistant Professor (Psychology), 1972
B.A., M.A., New York University, 1971

STOKES, R. N. .............. Instructor (Nursing), 1974
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STOUGHTON, J. B. .............. Assistant Professor (Mathematics), 1975
B.A.; M.A., Ph.D., University of Arizona, 1972

STROM, JACOB .......... Assistant Professor (History), 1976
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B.S.; M.D., University of Illinois, 1969

STROHMER, WILLIAM A. .......... Professor (Chemistry), 1975
B.A.; M.A., Ph.D., University of Michigan, 1953

STROUD, W. BENJAMIN .......... Professor (Chemistry), 1969
B.S.; M.S., Ph.D., Yale University, 1966

STROUD, WILLIAM H. .............. Associate Professor (Political Science), 1968
B.A.; M.S., Ph.D., University of California, Berkeley, 1963

STUBBART, W. R. .............. Assistant Professor (Economics), 1970
B.A.; B.S., University of Florida, 1966

STUART, JAMES .............. Assistant Professor (Internal Medicine), 1974
B.S.; M.D., University of Pennsylvania, 1960

STURGES, A. C. .............. Assistant Professor (Psychology), 1973
B.S., M.S., Yale University, 1966

STURGES, D. ALFRED .......... Associate Professor (Chemistry), 1970
B.S., M.S., Ph.D., Duke University, 1959

STURGES, J. E. .............. Assistant Professor (Chemistry), 1970
B.S.; M.D., University of Pennsylvania, 1960

STURGES, J. E. .............. Assistant Professor (Chemistry), 1970
B.S., M.S., Ph.D., Duke University, 1959

STUTTGART, H. ALFRED .......... Assistant Professor (Psychology), 1970
B.S., M.A., University of Iowa, 1960
TATUM, TAYLOR, JUANITA
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Associate Professor
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TAYLOR, MERRILY E. 
University Librarian, B. (Libraries), 1969

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

TAYLOR, RICHARD N. 
Assistant Professor
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B.A.; B.D.; M.Phil., Yale University, 1969

TAYLOR, SPAFFORD C. 
Associate Professor
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B.S.; M.A., George Peabody College, 1960

TEDESCO, THOMAS A. 
Assistant Professor
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B.S.; Ph.D., University of Pennsylvania, 1969

TERRITO, LEONARD 
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B.A., M.A.; Ed.D., Nova University, 1975

THARP, WILLIE S. 
Equal Opportunity Officer
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B.A., Bethune-Cookman College, 1968

THAXTER, JEFFREY D. 
Counselor to Students
(Housing and Food Service), 1975 Sarasota Campus

B.A.; M.Ed., University of Vermont, 1975

THEILEKER, ERNEST A. 
Associate Professor
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B.S.; M.S.; Ph.D., University of Chicago, 1968

THOMAS, THOMAS W. 
Research Analyst
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B.A., M.B.A., University of Florida, 1974

THOMES, DELBERT C. 
Systems Coordinator
(Computer Research Center), 1968

B.A.; M.B.A., Rollins College, 1967

THOMES, SHIRLEY 
Academic Administrator
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B.S. Ed., State University of New York, Brockport, 1951

THOMPSON, KENNETH W. 
Vice President
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B.A., M.A., University of South Florida, 1974, C.D.P.

THORNE, SHERMAN 
Assistant Professor
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B.A., M.A., University of South Florida, 1968

THORTENBERG, BETH S. 
Assistant Professor
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B.S.; B.L.S.; M.S.L.S., University of Illinois, 1966

TILGHMAN, LEVIN H., III 
Assistant University Librarian
(Libraries), 1974

B.A.; M.L.S., Atlanta University, 1974

TILLMAN, JAMES S. 
Associate University Librarian
(Medical Center Library), 1972

B.A.; M.L.S., Emory University, 1970

TIPPS, GEORGE K. 
Assistant Professor (History), 1969

B.A.; M.A., Ph.D., University of Colorado, 1971

TIPPS, HENRY C. 
Assistant Professor (Biology), 1965

B.S., M.S., Ph.D., Mississippi State University, 1965

TOCCO, THOMAS S. 
Associate Professor
(Education), 1970 (Part time)


TOMAINO, JOSEPH M. 
Director, Alumni Affairs
(Alumni Services), 1967

B.A.; M.A., University of South Florida, 1971

TOOTHMAN, REX E. 
Associate Professor and Program Director
(Education), 1970

A.B.; M.A., Florida Southern College, 1947

TORCZYNSKI, ELISE 
Assistant Professor
(Ophthalomology), 1975

B.S.; M.D., Marquette School of Medicine, 1969

TOWERY, GENE M. 
Assistant Professor (Education), 1970

B.A.; M.A., Ed.D., Nova University, 1959

TOWERY, HENRY C. 
Assistant Professor (Marketing), 1970

B.S.; M.B.; D.B.A., Florida State University, 1969

TRASK, ROGER R. 
Professor—Chairperson (History), 1973

A.B.; M.A., Ph.D., Pennsylvania State University, 1959

TREMMEL, WILLIAM C. 
Professor—Chairperson
(Pharmaceutical Studies), 1959

B.A.; M.A., Providence College, 1958

TROPE, ISAAC 
Assistant Professor
(Physical Education, Student Affairs) 1970

B.S.; M.S., University of Colorado, 1961
TROUTMAN, ANDRIA M. .......... Associate Professor (Education), 1971
B.S.; M.A.; Ed.D., University of Florida, 1971
TRUDEAU, WALTER L. .......... Associate Professor (Internal Medicine), 1972 (Part time)
TRUITT, WILLIS H. ............ Professor (Philosophy), 1968
A.B.; A.M., Ph.D., Boston University, 1968
TSERPES, NICHOLAS A. ......... Associate Professor (Mathematics), 1968
B.A.; M.A., Ph.D., Wayne State University, 1968
TSKOS, CHRISTOPHER .......... Professor (Mathematics), 1972
B.S., M.S.; Ph.D., University of Connecticut, 1965
TSKEOS, JANICE O. ......... Assistant Professor (Chemistry), 1972
B.S., Ph.D., University of Rhode Island, 1969
TURBEVILLE, JOSEPH E., JR. ...... Lecturer (Physics), 1964
B.A., University of South Florida, 1963
TURNO, STEPHEN P. .. Assistant Professor (Sociology), 1975
A.B., A.M., A.M., Ph.D., University of Missouri, 1975
TUTTLE, LESTER W., JR. .......... Dean—Administrator (Regional Campus Affairs), 1964, St. Petersburg Campus
TWIGG, JOHN F. .................... Associate Professor (Systems Engineering), 1964
B.S.; M.A., Boston University, 1949
TYNER, JOHN L., JR. .......... University Physician (Student Health Service, Student Affairs), 1972 (Part time)
B.S.; M.D., Medical School of South Carolina, 1965
UBUSHI, ANITA .......... Assistant Professor (Education), 1968
B.S.; M.A., University of Illinois, 1959
UPCHURCH, SAM B. .......... Associate Professor (Geology), 1974
A.B.; M.S., Ph.D., Northwestern University, 1970
UPRICHARD, ALBERT E. .... Associate Professor and Program Director (Education), 1968
B.A.; M.S., Ph.D., Syracuse University, 1969
UKRAVICH, PAUL A. ............ Director (University Safety and Security), 1973
URBANEX, RAYMOND A. ........ Professor (Education), 1961
B.A.; M.S., Florida State University, 1970
VAHAN, RICHARD .......... Coordinator (Marine Science), 1975
St. Petersburg Campus
B.S.; B.S. Engineering, 1951
VALENTINE, VIRGINIA W. ...... Lecturer (English), 1968
B.A.; M.A., Southern Methodist University, 1951
VANDERCAP, DAVID H. .......... Assistant Professor (Psychology), 1972
B.A., M.S., Ph.D., University of Miami, Florida, 1969
VANDEN, HARRY E. .............. Visiting Lecturer (Political Science), 1975
VANNESTE, ROY J. ............ Assistant Professor (History), 1971
B.A.; M.A., Ph.D., University of Wisconsin, 1972
VANOVER, GEORGE W. ........... Associate Professor (Education), 1967
B.S.; M.S.; Ed.D., University of Tennessee, 1973
VANDOORIS, KENNETH R. ....... Associate Professor (Management), 1970
B.S., M.B.A., B.B.A., Louisiana State University, 1971
VASTINE, JAMES P. ............ Associate University Reference Librarian (Libraries), 1970
B.A.; M.S.L.S., Florida State University, 1965
VASTINE, SUSAN M. .......... University Catalog Librarian (Libraries), 1965
B.A.; M.L.S., Emory University, 1965
VEGA, MANUEL ............... Associate Professor (Criminal Justice Program), 1965
B.S., M.S., Ph.D., Florida State University, 1964
VERKAUF, BARRY S. ............ Assistant Professor (Obstetrics/Gynecology), 1974
B.A.; M.D., Tulane University School of Medicine, 1965
VERMILLION, ROBERT L. ....... Assistant Professor (Obstetrics/Gynecology), 1974
B.S.; M.D., Medical College of Virginia, 1968
VERNEY, ethel L. .......... Research Associate (Pathology), 1972
B.S., M.S., University of Pittsburgh, 1948
VETTER, HAROLD J. .......... Professor—Assistant Chairperson (Criminal Justice Program), 1974
B.A., M.A., Ph.D., State University of New York at Buffalo, 1955
VILLEME, MELVIN G. .......... Assistant Professor—Program Director (Education), 1971
B.A.; M.A., Ed.S.; Ed.D., Nova University, 1975
WAGNER, BONNIE .............. Counselor/Adviser (Education), 1970 (Part time)
B.A., M.A., University of South Florida, 1975
WALBOLT, DANIEL R. ........ Dean—Academic Administrator (Student Affairs), 1969
B.S., J.D., New York University, 1965
WELKER, ROBERT F. ....... Associate Professor (English), 1975
B.A.; M.B.A., East Texas State University, 1973
WALLACE, ROBERT E. ............ Assistant Vice President (Administrative Affairs), 1972
B.S., University of Akron, 1961
WALKER, ERIC L. ............ University Controller (Finance and Administration), 1973
B.S.; M.B.A., East Texas State University, 1975
WALD, ANNA ............... Associate Dean—Professor (Education), 1972
B.S.Ed., M.S.Ed., Ph.D., University of Tennessee, 1958
WASHINGTON, ROSALIE H. .... Special Assistant for Equal Opportunity (Academic Affairs), 1975
B.S., M.Ed., Florida A & M University, 1961
WATKY, PATRICIA P. ....... Assistant Professor (Anthropology), 1969
B.S.; M.A., University of California, Berkeley, 1949
WATKINS, ARMIN J. .......... Professor (Music Arts), 1960
B.M., M.M.; D.M., Indiana University, 1957
WATKINS, GEORGE M. .... Associate Professor (Surgery), 1975
B.A.; M.D., Vanderbilt University School of Medicine, 1960
WATERFORD, ROY C. ....... Assistant Professor (Philosophy), 1972
B.A.; M.A., Ph.D., Vanderbilt University School of Medicine, 1961
WEBER, LEE A. ............... Associate Professor (Industrial Systems Engineering), 1967
B.A.; M.S., Ph.D., University of Florida, 1972
WEBB, SYDNEY J. .......... Professor (Physics), 1973
WEEKS, GERALD M. .... Associate Professor (Education), 1970
St. Petersburg Campus
B.S.; M.Ed., Ed.D., University of Georgia, 1970
WEINBERG, HERMAN ... Associate Professor (Education), 1970
B.S.; M.A.; Ed.D., Temple University, 1969
WEINGARTNER, CHARLES .......... Professor (Education), 1970
B.S., M.A.; Ed.D., Columbia University, 1958
WEINZIER, JON E. .... Assistant Professor (Chemistry), 1973
B.S.; Ph.D., California Institute of Technology, 1968
WELKER, ROBERT F. .......... Associate Professor (Accounting/Law), 1966
A.B.; J.D.; M.B.A., University of South Florida, 1974
WELLS, DANIEL A. ... Associate Professor (English), 1970
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B.A.; M.A., Ph.D., Duke University, 1972
WENZEL, STEVEN G. University Attorney (General Counsel), 1972

B.A.: J.D., University of Florida, 1972

WENZINGER, GEORGE R. Associate Professor (Chemistry), 1963

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WEST, ROBERT F. Professor (Accounting), 1964

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WEST, WILLIAM W. Professor (Education), 1970

B.A.: M.A.; Ph.D., Syracuse University, 1966

WETNIGHT, KATHRYN A Counselor to Students/Instructor

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B.S.; M.Ed., University of Miami, Florida, 1975

WHARTENBY, FRANK E. Assistant Professor (Economics), 1968

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WHEELER, RAYMOND H. Professor (Sociology), 1965

B.S.; M.A.; Ph.D., University of Michigan, 1962

WHEELER, WILLIAM Assistant Professor (Psychology), 1974

B.A.: Ph.D., University of California, Irvine, 1974

WESTERLUND, ROBERT B. Professor (Chemistry), 1962

B.S.; Ph.D., University of Florida, 1959

WHITE, LOUIS P. Instructor (Management), 1971

B.A., M.S., University of South Florida, 1970

WHITE, MICHAEL J. Assistant Professor (Management), 1968 St. Petersburg Campus

B.E.E.; M.B.A.; Ph.D., University of Florida, 1972

WHITE, THEODORE T. Coordinator (Oceanography), 1975 St. Petersburg Campus

B.S., University of California, Berkeley, 1949

WHITNEY, VERNON W. Associate Professor (Education), 1966


WIECKER, CURTIS W. Assistant Professor (Anthropology), 1972

B.A.: M.A., Ph.D., University of Arizona, 1975

WILCOXEN, JOSEPH K. University Physician (Student Health Service, Student Affairs), 1975 (Part time)

B.S., M.D., University of Illinois, 1968

WILK, ROGER E. Dean and Professor (Education), 1972

B.S.; M.A., Ph.D., University of Minnesota, 1957

WILKINSON, DAVID S. Assistant Professor (Biochemistry), 1972

B.S.; Ph.D., University of Wisconsin, 1971

WILLIAMS, CAROLINE M. Associate Professor (Astronomy), 1968

B.A.: Ph.D., Yale University, 1967

WILLIAMS, JAMES R. Assistant Professor—Associate Chairperson (Anthropology), 1969

B.S.; M.A.; Ph.D., Missouri University, 1971

WILLIAMS, JAMES W. Assistant Professor (Surgery), 1973 (Part time)

B.S.: M.D., University of Tennessee Medical School, 1967

WILLIAMS, JOSEPH F. Assistant Professor (Pharmacology), 1972

B.A.: Ph.D., University of Utah, 1970

WILLIAMS, JUANITA H. Associate Professor—Program Director (Interdisciplinary Social Science), 1966

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WILLIAMS, WALTER E. Assistant Professor (Mathematics), Assistant Dean and Director of Advising (College of Natural Science), 1961

B.A., M.A., Miami University, Ohio, 1955

WILLIAMSON, GARRY B. Assistant Professor (Biology), 1975

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WILSON, MARILYN K. Assistant in Research (Psychiatry), 1974

B.A., M.S., Wayne State University, 1968

WILSON, ROBERT E. Professor (Astronomy), 1966

A.B., Ph.D., University of Pennsylvania, 1963

WILSON, THOMAS C. . Associate Professor (Education), 1968

B.S., M.A., Ed.D., Wayne State University, 1970

WIMMERT, ROBERT J. Professor and Chairperson (Industrial Systems Engineering), 1964

B.S.M.E., M.S.I.E., Ph.D., Purdue University, 1957

WINCH, ANNABELLE M. Assistant to Vice President (Student Health Service, Student Affairs), 1960

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WINSTEL, JAMES W. Coordinator (Computer Research Center), 1973

B.S., B.A.: M.S., Trinity University, 1971

WINTERS, ALVIN L. Assistant Professor (Medical Microbiology), 1975

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WINTHROP, HENRY Professor (Interdisciplinary Social Science), 1960

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WOLFE, ALVIN W. Professor (Anthropology), 1974

A.B.: Ph.D., Northwestern University, 1957

WOLFE, PAUL C. Lecturer (Humanities), 1975, Sarasota Campus (Part time)

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WOLOSON, THEODORE J. Director (University Personnel Relations), 1975

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WOODBURY, ARTHUR N. Associate Professor (Music Arts), 1972

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WOOLFENDEN, GLEN E. Professor (Biology), 1960

B.S.: M.A.; Ph.D., University of Florida, 1960

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Certificate, Art School, Society of Arts and Crafts, Detroit, 1962

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B.A.; M.A., University of South Florida, 1972

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B.S., M.D., Tulane University, 1958

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WILEY, RUSSELL W. Professor-Coordinator (Education), 1966-1975
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