ACG 2021 Principles of Financial Accounting (3) BA ACC
Survey of basic accounting principles, including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

ACG 2071 Principles of Managerial Accounting (3) BA ACC
PR: ACG 2021 with a grade of "C" or better. A study of the accountant's role in assisting management in the planning and controlling of business activities.

ACG 3074 Managerial Accounting for Non-Business Majors (3) BA ACC
Does not count towards major or GPA requirements. Not available for credit for Business majors. The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.

ACG 3103 Intermediate Financial Accounting I (3) BA ACC
PR: ACG 2071 with a grade of "C" or better; ACG 2021 with a grade of "C" or better. Theory and methodology underlying financial reporting, including the FASB's conceptual framework, the accounting process, financial statements, accounting changes, present value applications, and current assets.

ACG 3113 Intermediate Financial Accounting II (3) BA ACC
PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C- ). Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, stockholders' equity, earnings per share computations, and investments.

ACG 3341 Cost Accounting and Control I (3) BA ACC
PR: ACG 2071 with a grade of "C" or better; ACG 2021 with a grade of "C" or better. Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

ACG 3401 Cost Accounting Information Systems (3) BA ACC
PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C- ). This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis on the collection, processing, and reporting of accounting information.

ACG 4123 Intermediate Financial Accounting III (3) BA ACC
PR: ACG 3113 with a grade of "C" or better (not C- ). Theoretical and practice underlying revenue recognition, income tax allocation, leases, post-retirement benefits, error analysis, statement of cash flows, full disclosure, and other current accounting topics.

ACG 4351 Cost Accounting And Control II (3) BA ACC
PR: ACG 3103 and ACG 3341 with a grade of "C" or better (not C- ). Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).

ACG 4632 Auditing I (3) BA ACC
PR: ACG 3113 and ACG 3401. This course provides a sound conceptual foundation of basic auditing processes, from the perspective of the public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

ACG 4842 Auditing II (3) BA ACC
PR: ACG 4632 with a grade of "C" or better (not C- ). Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

ACG 4901 Independent Study (1-3) BA ACC
PR: Consent of Director. S/U only. Specialized independent study determined by the students' needs and interests.

ACG 4911 Independent Research (1-4) BA ACC
PR: Consent of Director. Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor.

ACG 4931 Selected Topics In Accounting (1-4) BA ACC
The course content will depend on student demand and instructor's interest.

ACG 5205 Advanced Financial Accounting (3) BA ACC
PR: ACG 4123. CR: ACG 4632. Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

ACG 5675 Internal and Operational Auditing (3) BA ACC
PR: ACG 3113 and ACG 3401. CR: ACG 4632. The objective of Internal and Operational Auditing is to provide students with an opportunity to learn about the theory and practice of internal and operational auditing and to apply relevant audit principles and techniques to selected audit problems.

ADE 4384 Working With the Adult Learner (3) ED EDV
An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological, and social characteristics of adult learners, and corresponding implications are explored.

ADV 3008 Introduction to Advertising (3) AS COM
PR: ADV 2008 and ECO 1000. Study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

ADV 3101 Advertising Creativity (3) AS COM
PR: ADV 2008 and ECO 1000. Study of copywriting and art direction in the creation of advertising messages for alternative media platforms. Restricted to majors only.

ADV 3103 Radio-Television Advertising (3) AS COM
PR: ADV 2008. 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.

ADV 3200 Advertising Design (3) AS COM
PR: ADV 2008 (for advertising majors) or VIC 3001 (for other Mass Comm majors). Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.

ADV 3300 Advertising Media Strategy (3) AS COM
PR: ADV 2008 and ECO 1000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

ADV 3500 Advertising Research (3) AS COM
PR: ADV 2008. Overview of scientific research methods as used in advertising. Emphasis on the acquisition, analysis, and evaluation of primary and secondary data, and the principles of survey and experimental research.

ADV 3700 Retail Advertising Planning and Execution (3) AS COM
PR: ADV 2008 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.

ADV 4204 Advanced Advertising Creativity (3) AS COM
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, concepting, persuasion, copywriting, design, and presentations. Students learn to execute effective advertising messages.

ADV 4301 Advanced Media Strategy (3) AS COM
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. Emphasizing decision making and critical thinking, this advanced course prepares students for the complexities of advertising media planning, implementation, and evaluation.

ADV 4310 Digital Media (3) AS COM
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. This course focuses on the impact of new communication technologies on consumer behavior and advertising practice. Students will learn the nature of digital media options and how to incorporate them into advertising planning.

ADV 4600 Advertising Management (3) AS COM
PR: ADV 3008, ADV 3101, ADV 3300. Application of analytical planning concepts to advertising planning and decision-making. Case study method used to explore advertising and promotional programs; media and creative strategies; consumer, retail, industrial, and public service applications.

ADV 4710 Portfolio Building (3) AS COM
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. This course goes beyond the basics of copy and layout to develop a broader understanding of the creative advertising process. It stresses creativity and organizational ability in portfolio building, along with technical skills in portfolio production.

ADV 4800 Advertising Campaigns (3) AS COM
PR: ADV 3101, ADV 3300, ADV 3500, ECO 1000, and MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 Advertising Practicum (1) AS COM
PR: CI. For advertising sequence majors. S/U only. Practical experience outside the classroom where the student works for...
AFR 1101 The Foundation of the United States Air Force Pt 2 (1) US AFR
A study of Air Force installations, Core Values, Leadership, Team Building, and Diversity within Armed Forces. AFR 2001 Lead Lab augments course providing fellowshipt and leadership opportunities for each of the topics.

AFR 1903 Directed Independent Studies (1-4) US AFR
PR: DPR Directed Independent Study.

AFR 2000 Enhanced Physical Fitness Training (6) US AFR
Requisitions of all students in AFR 2000, 3000-, and 4000-level classes. It meets twice per week for 1 and 1/2 hours. Concentrates on motivational physical fitness, healthy lifestyle and cadet esprit.

AFR 2001 Air Force ROTC Leadership Laboratory (6) US AFR
Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student’s leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.

AFR 2130 The Evolution of USAF Aerospace Power Part I (1) US AFR
CR: AFR 2000, AFR 2001. A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWII and WWII and how it affected the evolution of air power concepts and doctrine.

AFR 2140 The Evolution of USAF Aerospace Power Part 2 (1) US AFR

AFR 3220 Air Force Leadership and Management - I (3) US AFR
CR: AFR 2000, AFR 2001. An integrated management course emphasizing the individual and a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officer). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.

AFR 3231 Air Force Leadership and Management - II (3) US AFR
CR: AFR 2000, AFR 2001. A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and understanding of these topics.

AFR 4201 National Security Affairs & Preparation for Active Duty I (3) US AFR

AFR 4211 National Security Affairs & Preparation for Active Duty II (3) US AFR

AFS 2250 Culture and Society in Africa 6A AF (3) AS AFA
Topics include: African villages, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AFS 3153 African Literature Survey 6A LW (3) AS AFA
Topics covered include: African literature and the reading of African literary texts of various genres.

AFA 4331 Social Institutions and the African American Community (3) AS AFA
A study of social institutions as they relate to the African American community, with emphasis on social systems operating within and outside the African American community.

AFA 4335 Black Women in America 6A MW (3) AS AFA
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience.

AFA 4350 African American Community Research MW (3) AS AFA
This interactive, field experience course introduces students to active and applied research methodologies and the uses of this research in Black urban communities.

AFA 4500 Slavery in the Americas and the Caribbean MW (3) AS AFA
This course examines the institution of enslavement in North, South, and Central America, and the Caribbean. It takes an interdisciplinary approach in exploring the social, political, and economic underpinnings of slavery.

AFA 4502 Middle Passage MW AF HP (3) AS AFA
The Middle Passage focuses on the trafficking of African peoples from Africa to destinations in the Americas and Europe. Emphasis is placed on the capture, detention, and transport of Africans, and their response to the experience.

AFA 4900 Directed Readings (2-3) AS AFA
PR: CI. Independent readings in a particular area of African and African American Studies, selected by student and instructor.

AFA 4990 Selected Topics in African Studies (3) AS AFA
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

AFA 5935 Issues in African Studies (1-4) AS AFA
Variable topics course focusing on the history, culture, and lived experiences of Africans, African American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics vary.

AFH 3100 African History to 1850 HP AF (3) AS HTY
An outline survey of pre-colonial African history including a preatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past.

AFH 3200 African History since 1850 HP AF (3) AS HTY
Survey of USAF 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.

AFR 1101 The Foundation of the United States Air Force Pt 1 (1) US AFR
Intro Air Force Reserve Officer Training Corps (AFROTC) & US Air Force (USAF) includes lessons in cadet professionalism and an intro to communication skills. AFR 2001 Lead Lab augments course providing fellowshipt and leadership experiences.
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AFS 4910 Individual Research (1-3) AS AFA
PR: Consent of instructor. 4000 level introductory course. Course consists of advanced undergraduate research on Africana Studies topic selected by student and professor. Topics vary. The course allows students to develop research skills and independent work discipline.

AMH 2010 American History I HP (3) AS HTY
A history of the United States with attention given to relevant developments in the Western Hemisphere from European origins to 1877.

AMH 2020 American History II HP (3) AS HTY
A history of the United States with attention given to relevant developments in the Western Hemisphere from 1877 to present.

AMH 3110 American Colonial History to 1750 (4) AS HTY
A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religious, labor systems, and political activity.

AMH 3130 The American Revolutionary Era (4) AS HTY
Emphasis on the causes of the American Revolution, the nature of Constitution-making, and the establishment of the federal system. Also examined are the significance of feudalism, violence, and slavery in American society from 1750-1789.

AMH 3140 The Age of Jefferson (4) AS HTY
A comprehensive study of American society and political culture from 1789-1828. Focuses on democratic ideals, party systems, expansionism, Indian policy, labor, and ethnocultural conflicts.

AMH 3160 The Age of Jackson (4) AS HTY
The United States from 1828-1850, with emphasis on social and political conflicts of nationalism, reform, labor movements, urbanization, and political activity in the antebellum era.

AMH 3170 The Civil War and Reconstruction (4) AS HTY
An examination of political, social, and economic climate of the 1860’s that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1867).

AMH 3201 The United States, 1877-1914 (4) AS HTY
A study of America from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course covers industrialization, immigration, unionism, reform, feminism, race relations and imperialism.

AMH 3231 The United States, 1914-1945 (4) AS HTY
The United States from World War I to the end of World War II. Covering political, social, and international developments, the course examines the lives of Americans, including minorities and women, during war, prosperity, and the Great Depression.

AMH 3270 The United States since 1945 (4) AS HTY
A study of America’s role in the Cold War, in Vietnam, and in the post-Cold War era. Also examines domestic developments, such as the consumer culture, protest movements, and abuses of political power.

AMH 3302 The South since 1865 (4) AS HTY
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3421 Early Florida (4) AS HTY
A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

AMH 3423 Modern Florida (4) AS HTY
An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

AMH 3500 American Labor History (4) AS HTY
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

AMH 3510 U.S. Diplomatic History to 1898 (4) AS HTY
The development of American Foreign Relations in the Agricultural Age.

AMH 3511 U.S. Diplomatic History in the 20th Century (4) AS HTY
A history of American Foreign Relations in the Industrial era.

AMH 3520 Immigration History (4) AS HTY
A study of the composition and character of the “American” people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world’s social, economic and political conditions.

AMH 3540 United States Military History (4) AS HTY
A study of American military policies and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

AMH 3585 War and American Empire (4) AS HTY
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Vietnam.

AMH 3561 African American Women I (4) AS HTY
A study of women in the evolution of American society from European origins to 1877. Women’s roles in the family, economy, politics, and reform movements will be examined.

AMH 3562 African American Women II (4) AS HTY
A study of women in the evolution of American society from 1877 to the present. Women’s roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined.

AMH 3571 African American History to 1865 HP (3) AS AFA
A survey of African American history, with an emphasis on North America to 1860. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War.

AMH 3572 African American History since 1865 HP (3) AS AFA
A survey of African American history, with an emphasis on North America, from 1860 to the present. Topics include reconstruction, civil rights, civil liberties, civil conflicts, civil wars, and civil rights law.

AMH 4601 Early American History and Archaeology (6) AS HTY
This course is a five week long summer practicum in early American historical archaeology. The class brings together historical research, material cultural studies, and historical archaeology methods within a professional historical archaeology setting.

AML 3031 American Literature From the Beginnings to 1600 (3) AS ENG
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 American Literature From 1600 to 1860 (3) AS ENG
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

AML 3051 American Literature From 1860 to 1945 (3) AS ENG
A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

AML 3083 Historical Perspectives in Early American Literature (3) AS ENG
Examines American literature from the Colonial Period to the Civil War as a manifestation of geographical, political, social, and intellectual forces. Will not be counted toward a major.

AML 3604 African American Literature 6A LW (3) AS ENG
A history of African 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 Nikki Giovanni.

AML 3630 U.S. Latino/Latina Literature in English (3) AS AFA
PR: ENGL 1101 and ENGL 1102. This 3000-level literature course surveys American English literature by Latino/Latina writers (with Spanish American ancestry). Authors may include Piri Thomas, Sandra Cisneros, Esmeralda Santiago, Luis Valdèz, Tomás Rivera, Oscar Hijuelos, etc.

AML 4111 Nineteenth-Century American Novel (3) AS ENG
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

AML 4112 Twentieth-Century American Novel (3) AS ENG
A study of major trends and influences in American prose fiction from 1900 to the present, including works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

AML 4261 Literature of the South (3) AS ENG
A study of the major writers of the Southern Renaissance, including writers such as Faulkner, Wolfe, Caldwell, Hellman, West, Jacobs, O’Connor, Styron, Tate, Bowles, and Dickey.

AML 4300 Selected American Authors (3) AS ENG
The study of two or three related major authors in American literature. The course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound
AMS 4303 Zora Neale Hurston: Major Works 6A MW LW (3) AS AFA  
PR: Junior or Senior standing. The course focuses on the life, works, and times of Zora Neale Hurston as a major Harlem Renaissance figure and a renowned Florida writer.

AMS 4624 Black Women Writers 6A LW (3) AS AFA  
Black women writers focus on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of African women in context of a global community.

AMS 2030 Introduction to American Studies SS HP (3) AS AMS  
An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including music; social issues; popular culture; material culture; cultural diversity; and social change. These approaches will be applied to specific cultural eras.

AMS 2201 Colonial American Culture HP (3) AS AMS  
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

AMS 2212 Nineteenth-century American Culture HP (3) AS AMS  
An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.

AMS 2270 Twentieth-century American Culture HP (3) AS AMS  
An examination of cultural patterns in America from 1900 to the present with emphasis on the texture of everyday life.

AMS 3263 Ecology in American Civilization (1-4) AS AMS  
An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

AMS 3001 American Culture 1880-1915 6A HP (4) AS AMS  
Integration of major aspects of American life between the 1880s and World War I.

AMS 3210 Regions of America HP (4) AS AMS  
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies.

AMS 3230 America During the 20s and 30s (3-4) AS AMS  
Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period.

AMS 3260 American Culture, 1830-1860 6A HP (4) AS AMS  
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

AMS 3302 Architecture and the American Environment (3) AS AMS  
By means of slides, lectures and discussion, this course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

AMS 3370 Southern Women: Myth and Reality 6A HP (3) AS AMS  
This course will identify the myths surrounding Southern Women, discern their sources and purposes, and contrast them with history.

AMS 3601 Material Culture and American Society SS HP (3) AS AMS  
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

AMS 3700 Race in American Society SS HP (3) AS AMS  
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied.

AMS 3930 Selected Topics in American Studies (1-4) AS AMS  
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4152 Film in American Culture (3) AS AMS  
Studies the contributions to major films, studios, directors, stars, theaters, and controversies from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: series on a region, director, performer, subject, or period of time.

AMS 4804 Major Ideas in America MW (3) AS AMS  
Involves the role of more influential thinkers in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies.

AMS 4910 Individual Research (1-4) AS AMS  
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.

AMS 4930 Selected Topics in American Studies (1-4) AS AMS  
Prerequisite: Instructor consent. Course covers the social implications of American painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.

AMS 4935 Senior Seminar in American Studies (4) AS AMS  
Pr: Senior in American Studies or CI.

AMS 4940 Internship in American Studies (1-2) AS AMS  
A structured, out-of-class learning experience designed to provide first-hand, practical training in careers related to American Studies. Restricted to American Studies majors. Repeatable up to 4 credit hours.

ANTS 4237 Visual Anthropology (3) AS ANT  
PR: Graduate standing. This class will examine the major dimensions of visual anthropological with an emphasis on the visual means of presenting anthropological knowledge to the discipline and general public. The course will focus on visual documentation and study of visual images.

ANG 5486 Quantitative Methods in Anthropology (3) AS ANT  
PR: Graduate Standing. This course is an introduction to quantitative methods for the anthropologist covering both classical statistical applications and exploratory data analysis, using computers with statistical software.

ANG 5901 Directed Reading (1-4) AS ANT  

ANG 5910 Individual Research (2-4) AS ANT  
PR: DPR. Contract required prior to registration. S/U. Individual guidance in selected research project.

ANG 5937 Seminar In Anthropology (2-4) AS ANT  
PR: Senior or GS. Topics to be chosen by students and instructor.

ANT 2000 Introduction to Anthropology SS AF (4) AS AN  
The cross-cultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology (human biology), archaeology (the analysis of the prehistoric and historic remains of human cultures), anthropological linguistics (the analysis of language in its cultural context), and cultural anthropology (the cross-cultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).

ANT 2410 Cultural Anthropology SS AF (3) AS ANT  
Discussion of major methods of and orientations to the cross-cultural study of the world’s peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifestyles.

ANT 2511 Biological Anthropology SS AF (3) AS ANT  
CR: ANT 2511L. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.

ANT 2511L Biological Anthropology Laboratory NS (1) AS ANT  
CR: ANT 2511L This is a lab companion to an overview of biological anthropology. The students will be doing laboratories which are relevant to the class topics covered in the lecture hall in ANT 2511.

ANT 3005 The Anthropological Perspective AF (3) AS ANT  
For majors only. Students who are preparing to apply to graduate schools may be awarded credit toward an anthropology major. Presents the basic concepts of anthropology as they are relevant to contemporary life. Allows students to understand the anthropologist’s cross-cultural view of the human species as adapting through biosocial means to life on this planet.

ANT 3101 Archaeology SS (3) AS ANT  
The cross-cultural study of humankind from its beginnings up to and including the historical period. Topics may vary.

ANT 3610 Anthropological Linguistics SS (3) AS ANT  
The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

ANT 4034 Theories of Culture (3) AS ANT  
PR: DPR. Senior standing with major in anthropology. The major concepts that form the anthropological view of humanity are
ANT 4142 Old World Archaeology (3) AS ANT
PR: ANT 3101 or DPR. The archaeology of Europe, from the earliest humans through the emergence of state-level societies in many parts of the Old World. The course will focus on the comparative aspects of economic, political, and religious organization in the prehistoric Near East, Egypt, China, the Aegean, Europe and Africa.

ANT 4143 European Archaeology (3) AS ANT
PR: ANT 3101 or DPR. The archaeology of Europe, from the first Palaeolithic inhabitants to the fall of Roman civilization. The course will focus on ancient material culture while emphasizing social and economic questions such as the emergence of modern humans, the adoption of agriculture, the development of complex societies, and the rise of civilization.

ANT 4147 Environmental Archaeology (3) AS ANT
PR: ANT 3101 or DPR. This course examines environmental constraints on ancient human societies, and how human activities have impacted the environment in the last several thousand years. Presentation of the methods used to reconstruct prehistoric environments will be followed by case studies from Florida, Central and South America, Easter Island, the Mediterranean and the Near East.

ANT 4149 Fantastic Archaeology MW (3) AS ANT
PR: Junior standing or above. Mysteries including the Lost Continent of Atlantis, Ancient Astronauts, Pitfall Man, Psychic Archaeology, Noah’s Ark, and the Shroud of Turin will be examined, while emphasizing skills in critical thinking that have much wider practical applications.

ANT 4153 North American Archaeology (3) AS ANT
PR: ANT 3101 or DPR. An examination of the evidence regarding the human settlement of North America from its beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

ANT 4158 Florida Archaeology (4) AS ANT
PR: ANT 3101 or DPR. Culture history and culture process over 10,000 years from the time of the first people in Florida (Paleo-Indians) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4163 Mesoamerican Archaeology (3) AS ANT
PR: ANT 3101 or DPR. The chronological sequence from its beginnings through Prehistoric to historic periods is described and analyzed. Cultures such as the Maya, Olmec, Aztec, Monte Alto, Toltec, and Toltic are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4165 South American Archaeology (3) AS ANT
PR: ANT 3101 or DPR. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 Historical Archaeology MW (3) AS ANT
PR: ANT 3101 or DPR. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classwork.

ANT 4180 Laboratory Methods in Archaeology (2-4) AS ANT
PR: ANT 3101. DPR. Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

ANT 4181 Museum Methods (4) AS ANT
PR: ANT 3101 and DPR. Design, preparation and installation of exhibits, techniques in the use of ethnographic material, and museum design. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

ANT 4183C Archaeological Science (4) AS ANT
PR: ANT 3101 or DPR. Focuses on the application of scientific methods of analysis to archaeological materials including bone, stone, pottery, and metal. Methods include absolute dating, remote sensing, optical and SEM microscopy, elemental and isotopic analysis. Laboratory projects provide hands-on experience with a variety of archaeological materials and analytical methods.

ANT 4231 Folklife 6A (3) AS ANT
PR: ANT 2410 or DPR. Focuses on cross-cultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture. African (or African-derived), Oceanic and Native American societies are surveyed.

ANT 4241 Anthropology of Religion 6A MW (3) AS ANT
PR: ANT 2410 or DPR. The cross-cultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and symbols of belief will be considered in light of their impact on the social, political or economic aspects of peoples’ lives.

ANT 4285 Oral History (3) AS ANT
PR: ANT 2410 or DPR. A survey of the history, methods, and current applications of oral history research, primarily in the anthropological study of culture, but with reference to allied disciplines. Students will become familiar with oral history through intensive analysis of selected case studies as well as guided field projects.

ANT 4302 Gender in Cross-Cultural Perspective MW (3) AS ANT
PR: ANT 2410 or DPR. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today.

ANT 4312 North American Indians (3) AS ANT
PR: ANT 2410 or DPR. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on various theories of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

ANT 4316 Ethnic Diversity in the United States MW (3) AS ANT
PR: ANT 2410 or DPR. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

ANT 4323 Mexico and Central America (3) AS ANT
PR: ANT 2410. Restricted to Anthropology majors, LACS certificate students, juniors and seniors only. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

ANT 4340 The Caribbean 6A MW (3) AS ANT
PR: ANT 2410 or DPR. Restricted to junior and senior CAS majors. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed.

ANT 4390 Visual Anthropology (3) AS ANT
PR: ANT 2410 and DPR. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of “visual literacy.” Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.

ANT 4401 Exploring Cross-Cultural Diversity MW (3) AS ANT
For Anthropology majors only. This course will introduce students to anthropological perspectives which are useful in understanding the implications of cultural diversity related to changing demographic patterns within our country as well as to global processes, and will provide exposure to diversity-oriented anthropology.

ANT 4432 The Individual and Culture 6A MW (3) AS ANT
PR: ANT 2410 or DPR. The relationship between the individual and society is studied cross-culturally. Main themes include child-rearing practices, psychological testing, and the evaluation of power and status. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.
ANT 4442 Urban Life and Culture (3) AS ANT
PR: ANT 2410 or DPR. The cross-cultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

ANT 4462 Health, and Culture (3) AS ANT
PR: ANT 2410 or DPR. The study of health and human behavior in cross-cultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems, their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.

ANT 4495 Methods in Cultural Research (3) AS ANT
PR: DPR. Restricted to juniors and seniors. The student will prepare a research proposal and analyze literature. The student will become familiar with research design and data collection. Credit may be repeated for different research areas.

ANT 4586 Prehistoric Human Evolution NS (3) AS ANT
PR: ANT 2511 or DPR. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Biocultural patterns and cultures of the past are also covered.

ANT 4587 Human Variation (3) AS ANT
PR: ANT 2511 or DPR. An overview of biological and biological variation of human races. Anthropological, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.

ANT 4620 Language and Culture 6A (3) AS ANT
PR: ANT 2511 or DPR. Examines the relationships between language and culture in cross-cultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistic and other cultural systems of knowledge.

ANT 4701 Applied Anthropology (3) AS ANT
PR: ANT 2410 or DPR. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

ANT 4750 Language and Social Interaction 6A (3) AS ANT
PR: ANT 2511 or DPR. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the cross-cultural description and analysis of patterns of communication in ethnocultural contexts.

ANT 4824 Archaeological Field Methods (4-12) AS ANT
PR: ANT 3101, DPR. Offered as all or part of a summer (or other semester) field session. May or may not be combined with Florida Archaeology and Laboratory Methods in Anthropology. Students learn appropriate methods of archaeological survey, excavation, data and materials recovery, recording, and processing.

ANT 4901 Directed Reading (1-4) AS ANT

ANT 4905 Individual Research (2-4) AS ANT
PR: DPR. S/U only. Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 Special Topics in Anthropology (2-4) AS ANT
PR: Variable depending on topic or DPR. Topics to be chosen by students and instructor permitting newly developing interdisciplinary special interests to be explored.

ANT 4932 Honors Seminar (4) AS ANT
PR: Admission to the honors program in anthropology and DPR. Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to participate in the activities of the undergraduate student organization.

ANT 4935 Rethinking Anthropology 6A (3) AS ANT
PR: Senior standing with major in anthropology. Through discussion of readings and student papers, students rethink and reevaluate anthropological discipline and the integration of its branches and specialty fields. Students develop and articulate their current research in anthropology.

ANT 4940 Directed Internship Including Practicum (2-4) AS ANT
PR: DPR. Individual guidance in a selected internship. Contract required prior to registration. S/U only. Majors and non-majors. May be repeated for credit; max 6 total hours.

ANT 4970 Honors Thesis (3) AS ANT
PR: Admission to the honors program, completion of the honors seminar and DPR. Students under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology.

ARA 1120 Modern Arabic I (4) AS WLE
CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

ARA 1120L Modern Arabic I Laboratory (1) AS WLE
CR: ARA 1120. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously.

ARA 1121 Modern Arabic II (4) AS WLE
PR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

ARA 1121L Modern Arabic II Laboratory (1) AS WLE
CR: ARA 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

ARA 1220 Modern Arabic III (4) AS WLE
PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.

ARA 2221 Modern Arabic IV (4) AS WLE
PR: ARA 1122 or its equivalent. Continuation of ARA 1122. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

ARA 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion.

ARA 4930 Selected Topics (1-5) AS WLE
Departmental approval required. Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion.

ARC 2131 Introduction to Architectural Design and Graphics FA (4) AR ARC
An introduction to fundamental “critical thinking” and graphic communication skills in architecture.

ARC 2211 Introduction to Architecture HP FA (3) AR ARC
An introduction to the methods and interpretation of the architecture and urban design of various cultures.

ARC 2701 Architectural History I HP FA (3) AR ARC
Overview of the built environment from the Middle Ages through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

ARC 2702 Architectural History II HP FA (3) AR ARC
Overview of the built environment from the Middle Ages to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

ARC 2932 Selected Topics (1-4) AR ARC
Selected topics will include architectural diagramming, freehand drawing, model making, photography, and computer graphics. Courses are intended for nonmajors and are repeatable.

ARC 4784 The City 6A (3) AR ARC
This course examines the history of the city, both as a physical reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

ARC 4931 Selected Topics in Architecture and Community Design (2-4) AR ARC
Variable topics will be offered for pre-professional studies for students in the Liberal Studies Major/ALA Degree Program and as electives for other undergraduates.

ARC 5175 Computer Technology (3) AR ARC
PR: CC. Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.
ARC 5216 The Building Arts (3) AR ARC
PR: CC, Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved in the process, and in the various academic courses that prepare the architect for practice.

ARC 5256 Design Theory (3) AR ARC
PR: DPR. Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematics as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.

ARC 5363 Core Design I (9) AR ARC
PR: CC. First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

ARC 5362 Core Design II (9) AR ARC
PR: ARC 5361, CC. Second of a two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students explore the development of significant architectural ideas and use it as a basis for their design exploration. Graphic documentation, diagramming, and model studies are stressed.

ARC 5361 Core Design III (6) AR ARC
PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731. CO: ARC 5689. Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use the systematic approach to the relationships and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.

ARC 5364 Advanced Design A (6) AR ARC
PR: ARC 5363. CP: ARC 5588. ARC 5467. Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships, environment, and the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

ARC 5360 Architectural Design B (6) AR ARC
PR: ARC 5363. CP: ARC 5588. ARC 5467. Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.

ARC 5366 Advanced Design C (6) AR ART
PR: ARC 5363. CP: ARC 5588. ARC 5467. Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Evaluation and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.

ARC 5467 Materials and Methods of Construction (3) AR ARC
PR: ARC 5470. Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and construction methods.

ARC 5470 Introduction to Technology (3) AR ARC
Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.

ARC 5587 Structures I (3) AR ARC
PR: Calculus, Physics, and ARC 5470, CC. Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior.

ARC 5588 Structures II (3) AR ARC

ARC 5689 Environmental Technology (3) AR ARC
PR: ARC 5467 and ARC 5470. Comprehensive overview of mechanical systems for buildings including: water and waste; fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.

ARC 5731 Architectural History I (3) AR ARC
Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Various methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.

ARC 5732 Architectural History II (3) AR ARC
Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student’s own approach. Emphasis will be on the built environment of Europe and America.

ARC 5789 Modern Architecture History (3) AR ARC
PR: CC, CI. Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the “New Architecture” as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.

ARC 5793 History Abroad (3) AR ARC
PR: CC. Summer study abroad. Location and description varies from year to year.

ARC 5794 Florida Architectural History (3) AR ARC
An examination of the environmental, sociological, technological, political, economic, and cultural factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.

ARC 5770 Architectural Design Studio Abroad (5) AR ARC
PR: CC. Summer study abroad. Location and description varies from year to year.

ARC 5931 Special Studies in Architecture (1-5) AR ARC
PR: CC. Variable titles offered on topics of special interest.

ARE 3044 Experiential Basis of Artistic Mind (3) VP ART
Designed to awaken the language of image and metaphor, with emphasis on the internal and expressive aspects of art as well as their application in the schools and the community.

ARE 3354 Art Teaching Strategies I (3) VP ART
PR: ARE 3354. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.

ARE 4313 Art For the Child and You (2) VP ART
Art and the intellectual, creative, emotional, and aesthetic growth of children.

ARE 4341 Art Teaching Strategies II (3) VP ART
Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

ARE 4443 Crafts Workshop in Art Education (3) VP ART
PR: ARE 3344. The study and practice of processes and media involved with the exploration and expression of cultural traditions and individual ideas through crafts.

ARE 4642 Community Arts (3) VP ART
PR: ARE 3344. Explores the arts as infrastructure through identification, Exploration and experimentation of/with unique
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<th>Course Code</th>
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<tr>
<td>ARH 409</td>
<td>Directed Study: Art Education (1-3)</td>
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<td>ARH 436</td>
<td>Senior Seminar in Art Education (2)</td>
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<td>ARH 3475C</td>
<td>Contemporary Issues in Art HP FA (4)</td>
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<td>ARH 2051</td>
<td>History of Visual Arts I HP FA (3)</td>
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<td>Introduction To Art HP FA (4)</td>
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<td>Concepts and Practices I FA (3-4)</td>
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<td>ARH 4170</td>
<td>Greek and Roman Art (4)</td>
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<td>ARH 4455</td>
<td>Modern Political Iconography MW (4)</td>
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**Prerequisites:**
- ARH 2050 or EUH 2011 recommended but not required.
- A comprehensive study of ancient Greek sculpture, painting, architecture, and other artistic media from the Bronze Age through the Hellenistic period.
- ARH 2050 recommended but required.
- A study of the art and cultures of ancient Egypt and the Near East, from the prehistoric period through the conquests of Alexander the Great.
- ARH 2050 or EUH 2011 recommended but not required.
- A comprehensive study of ancient Roman sculpture, painting, architecture, and other artistic media from the founding of Rome through the reign of Constantine.
- A comprehensive study of Chinese Art at the undergraduate level or equivalent.
- A comprehensive study of nineteenth century painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the changing nature of Art History from Vasari to the present.
- ARH 2051. A comprehensive study of Venetian art are examined to elucidate the importance of Venice as the crossroads of cultural exchange between Islam, Byzantium, and the West, and the importance of Venetian art to the history of art and art criticism.
- ARH 2051. A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the nineteenth century art are emphasized.
- ARH 2051. A comprehensive study of twentieth century painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.
- ARH 2051. A comprehensive study of the painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.
- A comprehensive study of ancient Egyptian, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.
- A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.
- A comprehensive study of the origins of Art History as a discipline and the role of the museum in the evolution of modern art.
- A comprehensive study of the history of film as art.
- An in-depth investigation of a selected period, development, or school in the history of film as art.

**Course Descriptions:**

- **ARH 4510: African Art (4) VP ART**
  - PR: DPR. A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolism and meanings.
- **ARH 4530: Asian Art (4) VP ART**
  - PR: DPR. An introduction to the arts of China, Japan and other Far Eastern countries.
- **ARH 4547: Buddhist Art (4) VP ART**
  - PR: DPR. This course focuses on one important aspect of Asian artistic production. Buddhist Art begins in India and travels via the Himalayas and Southeast Asia to East Asia, touching on artistic expression of major principles and practices, changes in art as the religion comes in contact with pre-existing cultures, and modern artistic practice.
- **ARH 4557: Chinese Art (4) VP ART**
  - PR: DPR. Chinese Art proceeds chronologically, from the Neolithic era up to the contemporary art world. The course considers cultural, linguistic, technical, philosophical, political and religious influences on the art works produced by this ancient society.
- **ARH 4710: History of Photography 6A MW (4) VP ART**
  - PR: ARH 2051. A comprehensive overview of the history of photography from its inception to the present day with an emphasis on the relationship of photography to the visual arts and popular culture.
- **ARH 4721C: History of Printmaking 6A (3) VP ART**
  - The history of Western printmaking from the Middle Ages to contemporary times, with an emphasis on artmaking technology and research, cultural perspectives and theoretical/critical analysis. This course is open to majors and non-majors. It is not repeatable for credit.
- **ARH 4724: History of Graphic Design 6A (4) VP ART**
  - This course surveys the design profession and the graphic design discipline. Students will explore graphic styles from the turn of the century to contemporary works, highlighting the innovations of influential designers throughout history.
- **ARH 4744: Seminar In The History of Film (4) VP ART**
  - In-depth investigation of a selected period, development, or school in the history of film as art.
- **ARH 4800: Critical Studies In Art History 6A (4) VP ART**
  - This course surveys the design profession and the graphic design discipline. Students will explore graphic styles from the turn of the century to contemporary works, highlighting the innovations of influential designers throughout history.
- **ARH 4800: Critical Studies In Art History 6A (4) VP ART**
  - Two advanced Art Histories. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering.
- **ARH 4890: Paris Art History (4) VP ART**
  - PR: Minimum 8 hours of art history at the undergraduate level or equivalent. CI. This course will explore issues central to the history and criticism of art through the rich visual culture of Paris. Themes will include art and national identity, orientalism, the avant-garde and the role of the museum in the development of modern art.
- **ARH 4930: Art History: Selected Topics (2-4) VP ART**
  - Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.
- **ARH 4937: Seminar In Art History (4) VP ART**
  - PR: Four courses in Art History at the 4000 level, DPR. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.
- **ARH 5451: Cultural and Intellectual History of Modern Art (4) VP ART**
  - PR: CI. A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.
- **ARH 5813: Methods of Art History (4) VP ART**
  - Must be taken during the student’s first two semesters in the M.A. program. This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation.
- **ARH 5836: Collection and Exhibition Management (3) VP ART**
  - PR: ARH 2051. This course will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.
- **ART 2201C: Concepts and Practices I FA (3-4) VP ART**
  - An introduction to basic visual art concepts. Topics include the nature of art, the visual language of its form, modes of representation, and visual art theory. Studio problems supplemented by lecture and discussion. Emphasis on images of implied time and space.
ART 2203C Concepts and Practices II FA (3-4) VP ART
PR: ART 2201C (for majors). No prerequisites for non-majors. This course will synthesize and expand on the groundwork laid in Fabrications I, which is pre-requisite for majors, but not for non-majors. Fabrications II will focus on the significance of meaning and how it is constructed visually by researching 3 phases: I - the personal in images, We - images of cultural ideas, and They - images produced through collaboration.

ART 2301C Beginning Drawing (3) VP ART
PR: Majors Only. Projects exploring the methods, media, and concepts of drawing.

ART 2400C Beginning Printmaking (3) VP ART
PR: Majors Only. This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, monoprint and serigraphy (screen printing).

ART 2500C Beginning Painting (3) VP ART
PR: Majors Only. Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.

ART 2701C Beginning Sculpture (3) VP ART
PR: Majors Only. Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.

ART 2750C Beginning Ceramics (3) VP ART
PR: Majors Only. An introduction to the use of ceramic materials as a means of self expression and critical exploration.

ART 2930 Selected Topics In Art (2-4) VP ART
PR: Majors Only. The content of this course will be determined by student demand and instructor interest. Open to non-majors. Undergraduate offerings under this number may not be counted for degree credit for art majors.

ART 3310C Intermediate Drawing (3) VP ART
PR: ART 2301C. Permit required. Majors Only. An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

ART 3380C Selected Topics in Drawing (3) VP ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C. Majors Only. Selected Topics in Drawing is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3461C Intermediate Printmaking (3) VP ART
PR: ART2201C, ART 2203C, ART 2301C, ART 2400C, ART 3310C, ARH 2050, ARH 2051. This course concentrates on developing intermediate printmaking with particular emphasis on conceptual topics. The course is intended for majors. Repeatable up to 15 hours.

ART 3461C Selected Topics in Printmaking (3) VP ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ARH 2500C, ART 3530C. Majors Only. Selected Topics in Printmaking is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3465 Digital Printmaking (3) VP ART
PR: ART 3612C or ART 2400C. Majors Only. An investigation of printmaking using the computer as a design interface between electronic and traditional printmaking processes. Repeatable up to 9 hours.

ART 3513C Selected Topics in Painting (3) VP ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ARH 2500C, ART 3530C. Majors Only. Projects in painting is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3530C Intermediate Painting (3) VP ART
PR: ART 2201C, ART 2203C, ART 2301C, ART 2500C, ART 3310C, ARH 2050, ARH 2051. An extension of the skills and concepts introduced in Beginning Painting with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

ART 3612C Beginning Electronic Media (3) VP ART
PR: Majors Only. An introduction to the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media.

ART 3613C Intermediate Electronic Media (3) VP ART
PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ART 3612C, ARH 2050, ARH 2051. An intermediate exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media while developing individual creative growth. Repeatable up to 15 hours.

ART 3635 Selected Topics in Electronic Media (3) VP ART
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 3612, ART 3613C. Majors Only. Selected Topics in Electronic Media is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3704C Intermediate Sculpture (3) VP ART
PR: ART 2201C, ART 2203C, ART 2301C, ART 2701C, ARH 3704C. Majors Only. Continued studies and projects in sculpture with an emphasis on the nature of multiples explored through advanced mold making and broncecasting. This course may not be repeated for credit. The conceptual implications of the multiple will be taught through reading, lecture, discussion and demonstration.

ART 3735 Selected Topics in Sculpture (3) VP ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2701C, ART 3704C. Majors Only. Selected Topics in Sculpture is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3761C Intermediate Ceramics (3) VP ART

ART 3781C Selected Topics in Ceramics (3) VP ART
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2750C, ART 3761C. Selected Topics in Ceramics is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3843C Site, Installation, and Performance (3) VP ART
PR: ART 2701C and ART 3704C. Majors Only. Continued studies and projects in sculpture with an emphasis on site-specific sculpture, installation and performance. A critical and cultural awareness of contemporary issues and materials in sculpture will be developed through studio projects assigned readings, discussions, critiques and demonstrations. The course may not be repeated for credit.

ART 3939 The Real World (3) VP ART
PR: DPR. Concentration in specialized technical data and process. Repeatable.

ART 4320C Advanced Drawing (3) VP ART
PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in drawing. Repeatable.

ART 4320C Advanced Printmaking (3) VP ART
PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. This course is designed as an advanced printmaking course that emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images. Repeatable.

ART 4520C Advanced Painting (3) VP ART
PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in painting. Repeatable.

ART 4614C Advanced Electronic Media (3) VP ART
PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Advanced exploration of issues and practices involved in the creation of experimental computer art. The course continues as interdisciplinary approach to electronic media with a focus on individual and group projects. Repeatable.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ART 4616</td>
<td>Computer Animation</td>
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<tr>
<td>ART 4634C</td>
<td>Visual Design for the Internet</td>
<td>3</td>
<td>VP ART</td>
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<td>ART 4710C</td>
<td>Advanced Sculpture</td>
<td>3</td>
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<td>ART 4782C</td>
<td>Advanced Ceramics</td>
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<td>ART 4806</td>
<td>Theme Studio</td>
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<td>Paris Art Studio</td>
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<td>ART 4905</td>
<td>Directed Reading</td>
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<td>ART 4925</td>
<td>Media Workshop: Design Production</td>
<td>3</td>
<td>VP ART</td>
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<td>ART 4930</td>
<td>Selected Topics In Art</td>
<td>1-4</td>
<td>VP ART</td>
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<td>ART 4940</td>
<td>Extended Studies</td>
<td>1-4</td>
<td>VP ART</td>
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<td>ART 4970C</td>
<td>Senior Thesis</td>
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<td>ART 5390C</td>
<td>Drawing</td>
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<td>ART 5422C</td>
<td>Lithography</td>
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<td>ART 5448C</td>
<td>Intaglio</td>
<td>4</td>
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<td>ART 5500C</td>
<td>Painting</td>
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<td>ART 5740C</td>
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<td>ART 5790C</td>
<td>Ceramics</td>
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<td>ART 5900C</td>
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<tr>
<td>ART 5936</td>
<td>Studio Techniques: Selected Projects</td>
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**AS-History and Asian Studies**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>3</td>
<td>AS HTY</td>
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<td>ASN 3012</td>
<td>Japan Today SS</td>
<td>3</td>
<td>AS INT</td>
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<td>ASN 3014</td>
<td>China Today AF</td>
<td>3</td>
<td>AS INT</td>
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<td>ASN 3030</td>
<td>The Middle East AF</td>
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<td>AS INT</td>
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<tr>
<td>AST 2003</td>
<td>Astronomy of the Solar System NS</td>
<td>4</td>
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<td>AST 2004</td>
<td>Stellar Astronomy and Cosmology NS</td>
<td>4</td>
<td>AS AST</td>
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<td>ASN 3033</td>
<td>Contemporary Thinking in Astronomy NS</td>
<td>3</td>
<td>AS AST</td>
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<td>AST 3330</td>
<td>Archaeoastronomy</td>
<td>3</td>
<td>AS AST</td>
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<tr>
<td>AST 5506</td>
<td>Introduction to Celestial Mechanics</td>
<td>3</td>
<td>AS AST</td>
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<tr>
<td>AST 5932</td>
<td>Selected Topics In Astronomy</td>
<td>1-5</td>
<td>AS AST</td>
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</tbody>
</table>
This course aims to provide the student with the opportunity to "think like a physician." It will provide the student with the opportunity and tools to become a physician. The course will cover the anatomy, physiology, and pathology of the organ system. It will include didactic lectures and practical sessions, focusing on the diagnosis and treatment of diseases. The course will cover topics such as physiology, anatomy, and pathology of the organ system. It will include didactic lectures and practical sessions, focusing on the diagnosis and treatment of diseases.
BSC 2933 Honors Seminar II: Philosophy and Ethics of Science (3) AS BIO
PR: BSC 2931, BSC 2932, & CHM 2045 & CI. Enrollment is limited to Department of Biology Honors Students. The course will begin to familiarize students with the process of conducting scientific research.

BSC 2934 Honors Seminar III: Scientific Approaches (3) AS BIO
PR: BSC 2933. CI. Enrollment is limited to Department of Biology Honors Students. Course is designed to introduce Honors students to various research fields and current research in the Department. Faculty members present research seminars and discuss their work.

BSC 2935 Sex and Today's World NS (3) AS BIO
The application of basic scientific principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. May be taken by majors for free elective credit.

BSC 2936 Social and Institutional Issues (3) AS BIO
The course content will depend on student demand and instructor's interest.

BSC 2937 Seminar in Biology (2-3) AS BIO
PR: BSC 2933 and either BSC 4931 or BSC 4932. Enrollment is limited to Biology Department Honors students. S/U only. A thesis based on independent research carried out by the student.

BSC 2938 Honors Seminar I (1) AS BIO
PR: BSC 2934 and CI. CR: BSC 2911, BSC 2931L. A detailed analysis of marine environment in the Tampa Bay or surrounding area. Field and laboratory work will provide direct experience with the systems. May be taken by majors for free elective credit.

BSC 2939 Seminar in Cell Biology (1-3) AS BIO
Selected topics in the field of cell biology. May be taken by majors for free elective credit. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study.

BSC 2940 Seminar in Neurobiology (1-3) AS BIO
PR: BSC 2934 and BSC 2911L. CR: CHM 2211. S/U only. May be taken by majors for free elective credit. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study.

BSC 2941 Seminar in Critical Thinking (1-3) AS BIO
PR: BSC 2934 and either BSC 4931 or BSC 4932. Enrollment is limited to Biology Department Honors Students. S/U only. A thesis based on independent research carried out by the student.

BSC 2942 Seminar in Evolution (1-3) AS BIO
CR: BSC 2934 and either BSC 4931 or BSC 4932. S/U only. May be taken by majors for free elective credit.
CCE 4031 Construction Management (3) EN EGX
This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

BUL 3321 Law And Business I (3) BA GBA
This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

BUL 3322 Law And Business II (3) BA GBA
PR: BUL 3320. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

BUL 5332 Law and the Accountant (3) BA GBA
PR: BUL 3320 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

CAP 4534 Computer Animation Fundamentals (3) EN ESB
PR: EEC 4851C. This course is about computer animation. Topics include storyboarding, camera control, hierarchical character modeling, inverse kinematics, keyframing, motion capture, dynamic simulation, and facial animation.

CAP 4401 Image Processing Fundamentals (3) EN ESB
PR: EEL 4851C. Practical introduction to a range of fundamental image processing algorithms. Use of the C language in algorithm construction. Extensive programming, with emphasis on image analysis and transformation techniques. Image transformation and manipulation.

CAP 4440 Computer Vision (3) EN ESB
PR: EEL 4851C. Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, texture analysis, object recognition, and dynamic scene analysis. Non-majors by special permission and demonstration of required skills.

CAP 4660 AI Robotics (3) EN ESB
PR: EEL 4851C. CR: COT 4400. A.I. methods for mobile robots (ground/aerial/underwater). Understand:(1)3 paradigms of AI robotics;(2)major ways to organize and combine behaviors in behavior-based systems;(3)major path planning;(4)simultaneous localization and mapping (SLAM) algorithms.

CAP 5400 Digital Image Processing (3) EN ESB
PR: EEL 4851C or GS. Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression.

CAP 5662 Expert And Intelligent Systems (3) EN ESB
PR: EEL 4851C or GS. Basic concepts, techniques and tools used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

CAP 5771 Data Mining (3) EN ESB
PR: Undergraduate Statistics. An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.

CBH 4004 Comparative Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

CCE 4031 Construction Management (3) EN EGX
PR: EGN 3613C. Fundamentals of construction management. Topics include general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

CCJ 3003 Crime and Justice in America SS (4) AS CJP
May be taken by both majors and non-majors for credit. This course is a non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with criminal offenders and victims of crime.

CCJ 3103 Survey of the Criminal Justice System SS (3) AS CJP
An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

CCJ 3530 Theories of Criminal Behavior (3) AS CJP
PR: Junior standing, CCJ 3024 or CI. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3531 Patterns of Criminal Behavior (3) AS CJP
PR: Junior standing. Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offense, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

CCJ 3701 Research Methods in Criminal Justice I (3) AS CJP
PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 3706 Applied Statistics in Crime (3) AS CJP
This course is designed as a beginning undergraduate level statistics course for criminology majors. In addition to learning how and when to apply appropriate statistical tests, students will learn a number of basic statistical concepts. Majors Only.

CCJ 4450 Criminal Justice Administration (3) EN ESB
PR: Junior standing, CJE 4114 or CJT 4100 or CI. This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4604 Abnormal Behavior and Criminality (3) AS CJP
PR: Junior standing, CCJ 3610 or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4700 Statistical Research Methods in Criminal Justice II (3) AS CJP
PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF.

CCJ 4900 Directed Readings (1-3) AS CJP
PR: Junior standing, CCJ 3024, CCJ 3610, or CCJ 3621, CI. S/U only. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course.(b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment.(c) First consideration will be given to Criminology majors.(d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the direct supervision of a faculty member of the program.

CCJ 4910 Directed Research (1-3) AS CJP
PR: Junior standing, CCJ 3024, CCJ 3610, CCJ 3621, CI. S/U only. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course.(b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment.(c) First consideration will be given to Criminology majors.(d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is designed to provide students with a research experience in which they will work closely with an individual faculty member on the development and implementation of research projects in the area of criminal justice.

CCJ 4930 Critical Issues in Policing SS (3) AS CJP
PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officers; substance abuse by police officers; and administrative review of alleged police brutality.
CCJ 4933 Selected Topics in Criminology (3) AS CJP
PR: Junior standing, CCJ 3024, CCJ 3621, CCJ 3610 or CI. Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with permission of the instructor.

CCJ 4934 Seminar in Criminology MW (3) AS CJP
PR: Senior standing, CCJ 3024, CCJ 3621, CCJ 3610 and CI. These variable topic seminars are used for the in-depth study and discussion of the relationships among culture, gender, ethics, age, status, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.

CCJ 4970 Internship for Criminal Justice Majors (3) AS CJP
PR: Senior standing, CCJ 3024, CCJ 3610, CCJ 3621. S/U only. No more than 9 hours of CCJ 4940 will be accepted toward the elective hours required for the major. The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week during a fall or spring term, fifteen hours per week in summer, within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required.

CCJ 3610 Computer Organization (3) EN ESB
PR: PHY 2049 or PHY 2054 and DPR. An introduction to computer hardware, logic elements and Boolean algebra, computer arithmetic, the central processing unit, assembly language programming, input/output, and memory.

CCD 3201 Computer Logic and Design (3) EN ESB
PR: CDA 3201, CDA 3202, Logic Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.

CCD 4203L Computer System Design Lab (1) EN ESB
CR: CDA 4201. This lab introduces the student to the concept of system design. Several projects are given including building timing circuits, memory-based and communication circuits, and microcomputer-based designs.

CCD 4203 Computer System Design Lab (1) EN ESB
CR: CDA 4203. This lab introduces the student to the concept of system design. Several projects are given including building timing circuits, memory-based and communication circuits, and microcomputer-based designs.

CCD 4213 CMOS-VLSI Design (3) EN ESB
PR: CCD 3201, CCD 3201L. Covers analysis and design of CMOS processing technology. CMOS logic design, design layout, timing and delay, and power and thermal issues. CMOS transistor theory. VLSI system design, case studies and rapid prototype chip design.

CCD 4211L CMOS-VLSI Design Lab (1) EN ESB
PR: CCD 3201, CCD 3201L, CR: CCD 4213. Scalable CMOS layout design, circuit extraction, transistor-level and lay-out level simulation, SPICE parameters/modeling, transistor sizing, standard and macro-cell based layout, static/dynamic CMOS, combinational/ sequential block layout, memory I/O design.

CCD 4253 Field Programmable Gate Array System Design and Analysis (3) EN ESB
PR: CCD 3201, CCD 3201L. Covers analysis and design of digital systems using VHDL simulation. Provides experience with field programmable logic gates and gate arrays. Introduces the requirements for field programmable systems; testing of circuitry, and analysis of system design.

CDA 5416 Introduction to Computer-Aided Verification (3) EN ESB
PR: CDA 3201, COT 3100, COT 4400, EEL 4851C. This course introduces basic concepts of formal verification. Topics include formal specification, algorithms, and methodologies for scalable verification. It is only for CSE majors or non-majors with permission of the instructor.

CEG 4011 Geotechnical Engineering I (3) EN EGX
PR: EGN 3353, EGN 3331. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and bearing strength.
CGN 4851 Concrete Construction Materials (3) EN EGX
PR: CES 3102, Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4702 Concepts of Concrete Design (3) EN EGX
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4702 Concepts of Concrete Design (3) EN EGX
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4702 Concepts of Concrete Design (3) EN EGX
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4702 Concepts of Concrete Design (3) EN EGX
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4702 Concepts of Concrete Design (3) EN EGX
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4702 Concepts of Concrete Design (3) EN EGX
PR: CES 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CGS 3845 Electronic Commerce (3) US EIT
PR: COP 2510 or equivalent. An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML and how browsers show that code. The student will also learn to use web page development packages.

CGS 2034 Computers and Impact on Society SS (3) EN ESB
This course surveys computer technology and its application to various other disciplines. The course includes technical descriptions and protocols for computers. The course compares interdisciplinary applications between fields using technology.

CGS 2060 Sc Introduction to Computers and Programming in Basic 6A (3) EN ESB
No credit for Engineering Majors. An overview of computer systems and their role in society. Survey of the evolution of computer software and hardware technology with emphasis on current applications. Introduction to programming using the BASIC language.

CGS 2062 Computers And Society (3) EN ESB
No credit for Engineering Majors. For non-engineering majors only. This computer literacy course covers the fundamentals of hardware, software, and programming languages, presents a broad overview of data processing concepts, problems and applications for students with little or no computing background.

CGS 2094 CyberEthics AF SS (3) EN ESB
Many ethical issues, e.g. privacy, freedom of speech, security, intellectual property, and workplace globalization, are impacted by computing and related technology. These issues are examined from theoretical, cultural, and geopolitical perspectives.

CGS 2100 Computers In Business (3) BA QMB
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

CGS 2935 Special Topics in General Computer Studies (1-3) EN ESB
Courses are one-time topics in general computer studies, applicable to all students. Specific course titles will be specified when the course is posted on the schedule.

CGS 3283 IT Concepts (3) US EIT
PR: Any PHY course. A lecture and problem solving course which deals with subjects related to computers and information technology. A broad range of conceptual and practical topics in IT are covered.

CGS 3823 IT Web Design (3) US EIT
PR: COP 2510 or equivalent. An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML, and how browsers show that code. The student will also learn to use web page development packages.

CGS 2035 IT Concepts (3) US EIT
PR: COP 2510 or equivalent. An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML, and how browsers show that code. The student will also learn to use web page development packages.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 3362 Cryptography and Information Security (3) US EIT</td>
<td>PR: MAD 2104 or permission of instructor. This course examines classical cryptography, entropy, stream and block ciphers, public key versus symmetric cryptography, one-way and trapdoor functions, plus other specific tools and techniques in popular use.</td>
<td></td>
<td>US EIT</td>
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<tr>
<td>CIS 3367 Architecting Operating System Security (3) US EIT</td>
<td>PR: CIS 3360 or permission of instructor. This course examines tools and techniques for securing Windows and Linux operating systems. Students will acquire knowledge and skills to perform audit assessments and implement enterprise-wide operating system security.</td>
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<td>US EIT</td>
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<tr>
<td>CIS 3932 Special Topics for Information Technology (1-4) US EIT</td>
<td>Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.</td>
<td></td>
<td>US EIT</td>
<td></td>
</tr>
<tr>
<td>CIS 4250 Ethical Issues and Professional Conduct 6A MW (3)</td>
<td>PR: Senior standing in the Department of Computer Science and Engineering. An introduction to ethical issues arising in the computer sciences, through written analysis and oral presentations of technical situations which involve ethical conflicts.</td>
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<td>EN ESB</td>
<td></td>
</tr>
<tr>
<td>CIS 4253 IT Ethics 6A MW (3) US EIT</td>
<td>PR: Basic computer skills. This course will cover issues that arise from the world of online communication and its impact on our daily lives through education, processes, and information. Class discussions cover various technologies and issues that are shaping our society.</td>
<td></td>
<td>US EIT</td>
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<tr>
<td>CIS 4361 Information Technology Security Management (3) US EIT</td>
<td>PR: Junior standing or above. An overview of information security management techniques and concerns is presented. Topics include: Access control systems, telecommunications and network security, security management practices, application and systems development security, cryptography, disaster recovery planning, legal and ethical issues, and physical security.</td>
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<td>US EIT</td>
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<tr>
<td>CIS 4365 Computer Security Policies and Disaster Preparedness (3) US EIT</td>
<td>PR: CIS 3360. When an organization’s functioning is interrupted by disasters, accidents, or natural events, a loss of data and/or productivity may occur. The impact on the organization is determined by the nature and extent of the disruption, and by the preparedness it has for dealing with these disruptive events.</td>
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<td>US EIT</td>
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<tr>
<td>CIS 4412 Information Technology Resource Management (3) US EIT</td>
<td>PR: Junior standing or above. An overview of the information resource management function, with emphasis on information systems management, is covered. Topics include planning, organizing and controlling user services, managing information systems development process, and the fundamentals of EDP auditing.</td>
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<tr>
<td>CIS 4510 I.T. Project Management (3) US EIT</td>
<td>PR: CI. This course covers the general aspects of project management and emphasizes the important, special considerations which apply to information technology projects. Supporting software is used extensively.</td>
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<td>US EIT</td>
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</tr>
<tr>
<td>CIS 4900 Independent Study in Computer Science (1-5) EN ESB</td>
<td>PR: EEL 4851C or CDA 3201 and S/U only. Specialized independent study determined by the needs and interests of the student.</td>
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<td>EN ESB</td>
<td></td>
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<tr>
<td>CIS 4910 Computer Science Project (2) EN ESB</td>
<td>PR: EEL 4851C. Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.</td>
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<td>EN ESB</td>
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<tr>
<td>CIS 4930 Special Topics in Computer Science I (1-4) EN ESB</td>
<td>PR: EEL 4851C. Topics vary.</td>
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<td>EN ESB</td>
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<td>CIS 4932 Special Topics for Information Technology (1-4) US EIT</td>
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<td>CIS 4935 Senior Project in Information Technology (3-5) US EIT</td>
<td>PR: Senior Standing in Information Technology. Graduates of the IT program must complete a major project dealing with a subdomain of IT. Projects are supervised by a faculty member, or an approved industrial mentor. Projects range from design to programming, to implementation, with special attention associated with IT.</td>
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<td>US EIT</td>
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<td>CJC 4010 American Correctional Systems (3) AS CJP</td>
<td>PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Introduction to the different treatment philosophies and techniques currently in use in the U.S. correctional system, with special attention to experimental and demonstration programs.</td>
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<td>AS CJP</td>
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<tr>
<td>CJC 4166 Alternatives to Incarceration (3) AS CJP</td>
<td>PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.</td>
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<td>AS CJP</td>
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<tr>
<td>CJE 3444 Crime Prevention (3) AS CJP</td>
<td>PR: CCJ 3024, CCJ 3610 or CI. The aim of this course is to introduce students to the theories and constructs of crime prevention and reduction, as well as techniques and policies used currently worldwide that would enhance US response to crime and justice. No restriction, not repeatable.</td>
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<tr>
<td>CJE 3641 Introduction to Forensic Science (3) AS CJP</td>
<td>This course provides students an appreciation of ‘real life’ forensic science and its role in the justice system. The class introduces students to the scientific techniques employed by the forensic science community. Not restricted or repeatable.</td>
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<tr>
<td>CJE 3656 Introduction to Crime Analysis (3) AS CJP</td>
<td>PR: CCJ 3701, CJE 3444, CCJ 3706. An introduction to the field of crime analysis; the use of Geographic Information Systems (GIS); crime mapping techniques. Not restricted. Not repeatable.</td>
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<tr>
<td>CJE 4010 Juvenile Justice System (3) AS CJP</td>
<td>PR: Junior standing, CCJ 3024 or CCJ 3610 or CI. Provides coverage of the juvenile justice system, including subdisciplines and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.</td>
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<tr>
<td>CJE 4144 Private Security Systems (3) AS CJP</td>
<td>PR: Junior standing plus CEJ 4114, CCJ 3024, CCJ 3610, CCJ 3621 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.</td>
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<tr>
<td>CJL 3110 Substantive Criminal Law (3) AS CJP</td>
<td>PR: Junior standing, CCJ 3024, CCJ 3610, or CI. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.</td>
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<tr>
<td>CJL 3502 Introduction to Courts (3) AS CJP</td>
<td>Offers understanding of process &amp; functions of US court system. Define &amp; identify different aspects of law &amp; crime; examine aspects of Federal &amp; State court systems; trial process; examine roles of court workers; sentencing. Not restricted or repeatable.</td>
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<tr>
<td>CJL 4115 Environmental Law and Crime (3) AS CJP</td>
<td>PR: Junior standing, CCJ 3024 or CI. The course provides students with an introduction to issues in the area of environmental crime prepared and environmental law.</td>
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<tr>
<td>CJL 4410 Criminal Rights and Procedures (3) AS CJP</td>
<td>PR: Junior standing, CCJ 3024 or CI. Emphasizes the Constitutional issues and rules that are complied and enforced by the courts while processing criminal cases.</td>
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<tr>
<td>CJL 4100 Criminal Investigation (3) AS CJP</td>
<td>PR: CCJ 3024 or CCJ 3610 or CI. Examines the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.</td>
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</tr>
<tr>
<td>CLA 3103 Greek Civilization HP (3) AS WLE</td>
<td>Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.</td>
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<td>AS WLE</td>
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<tr>
<td>CLA 3124 Roman Civilization HP (3) AS WLE</td>
<td>Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.</td>
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<td>AS WLE</td>
<td></td>
</tr>
<tr>
<td>CLA 3501 Women in Antiquity 6A LW (3) AS WLE</td>
<td>The life of women in the ancient Greek and Roman world, through lecture, video, and slide presentations. The course is not restricted to majors and cannot be repeated for credit.</td>
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<td>AS WLE</td>
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<tr>
<td>CLA 3930 Selected Topics (3) AS WLE</td>
<td>An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.</td>
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<td>AS WLE</td>
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</tr>
<tr>
<td>CLA 4930 Selected Topics (1-4) AS WLE</td>
<td>Course content depends on student demand and instructor’s interest and may range over the whole field of ancient languages, literatures and civilizations. Offerings to be announced for credit. Topics vary.</td>
<td></td>
<td>AS WLE</td>
<td></td>
</tr>
<tr>
<td>CLP 2001 Psychology of Adjustment SS (3) AS PSY</td>
<td>Genetic, organic, and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.</td>
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<td>AS PSY</td>
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</tr>
</tbody>
</table>
CLP 4143 Abnormal Psychology (3) AS PSY
PR: PSY 2313 with a grade of C or better or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

CLP 4414 Behavior Modification (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4423 Psychological Tests and Measurement (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses.

CLP 4941 Community Practicum in Selected Topics (1-9) AS PSY
PR: PSY or C or better in PSY 4931, junior standing and at least 6 hours in Psychology. Service-learning for student to apply psychological principles learned in the classroom to volunteer experiences. Community is defined at the local, national and international level. Free-standing practicum or as a corequisite course.

CLT 2043 Wordpower from Latin and Greek (3) AS WLE
Study of Greek/Latin elements as a means of building English vocabulary. Examination of Greek/Latin-based terminology from various scientific fields, its adoption into English and current usage. Attention given to Greek/Latin stems, prefixes, suffixes.

CLT 3040 Scientific and Medical Terminology (3) AS WLE
A course in the Greek and Latin word elements used in science and technology.

CLT 3150 Greek Literature in Translation 6A MW (3) AS WLE
Reading and discussion of major works in Greek literature. Special emphasis on the Iliad, the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

CLT 3123 Roman Literature in Translation 6A MW (3) AS WLE
Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the political background of the works. All readings are in English.

CLT 3370 Classical Mythology HP (3) AS WLE
Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

CNT 3403 Network Security and Firewalls (3) US EIT
PR: EEL 4782. This course surveys network security standards and emphasizes applications that are widely used on the Internet and for corporate networks. This course also examines Firewalls and related tools used to provide both network and perimeter security.

COM 2000 Introduction to Communication SS (3) AS SPE
Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.

COM 2040 Communication, Gender and Identity (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). Examines the communicative origins and implications of gender roles.

COM 3110 Communication For Business and the Professions (3) AS SPE
For non-majors only. Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearing.

COM 3120 Organizational Communication (3) AS SPE
PR: COM 2000 with C or above or consent of instructor. A survey of communication concepts which impact upon organizational effectiveness.

COM 3122 Interview Communication (3) AS SPE
A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.

COM 3413 Communication and Visual Culture (3) AS SPE
PR: COM 2000. Examines the nature and meaning of communication as a fundamental to communication with special emphasis on cultural and rhetorical implications of visual practices in aesthetic, political, and social arenas.

COM 4016 Public Memory (3) AS SPE
PR: COM 2000, SPC 2541. Exploration of collective memory as public communication. Examines public memory as created and communicated in memorials, museums, mediated history, nostalgia, and story. For majors; nonmajors by permit. Not repeatable for credit.

COM 4020 Communicating Illness, Grief, and Loss 6A (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). Focuses on stories of illness, grief, and loss to make sense of these experiences; to understand the cultural and rhetorical influences on how stories are told; and to explore the context of everyday life, romantic relationships, families, institutions, and culture in which they occur.

COM 4021 Family Communication and the End of Life (3) AS SPE
PR: COM 2000, SPC 3301. Explores theories and practices of family communication at end-of-life through language, relationships, bioethics, and case analysis techniques. For majors; nonmajors by permit only. May not be repeated for credit.

COM 4022 Health Communication (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication.

COM 4030 Women and Communication 6A MW (3) AS SPE
Examines women’s patterns of communication in a variety of contexts. Also offered under Women’s Studies.

COM 4050 Globalization and Democratic Discourse (3) AS SPE
PR: COM 2000, SPC 2541. Examines rhetoric of globalization and democracy from communicative perspectives, the discourses of war, terrorism, nationalism, and security. For majors; nonmajors by permit only. Not repeatable for credit.

COM 4104 Communication, Tourism, and Travel (3) AS SPE

COM 4124 Communication and Organizational Change (3) AS SPE
PR: COM 2000 with C or above and COM 3120 or consent of instructor (CI). An advanced course covering current issues in organizational transformation (e.g., organizational dialogue, learning organizations, reengineering, work teams), and the role communication processes play in such changes.

COM 4702 Communication, Language, and Mental Illness (3) AS SPE
PR: COM 2000, SPC 3301. Explores intersection of mental illness and communication as language, talk-in-interaction, and discourse as social practice. For majors; nonmajors by permit. May not be repeated for credit.

COM 4710 Writing Lives 6A (3) AS SPE
PR: Junior/Senior standing or CI. Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with, and communicate social experiences.

COM 4942 Communication Intern Seminar (3) AS SPE
PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 credits of core requirements and 9 elective hours completed, and CI. Seminar explores communication as a social practice. Application for seminar must be submitted one semester prior to seminar offering.

COM 5930 Topics in Communication Studies (3) AS SPE
Topical issues in communication.

COP 1930 Special Topics for Information Technology (1-3) US EIT
Special topics course.

COP 2120 SC Cobol Programming I (3) EN ESB
Analysis of ANSI Standard COBOL language elements. Development of file structures and commercially oriented applications.

COP 2121 SC Cobol Programming II (3) EN ESB
PR: COP 2120. Advanced applications of ANSI Standard COBOL. Development of subroutines, relative I/O and data base applications as used in a comprehensive data processing environment.

COP 2270 Programming in C for Engineers (3) EN ESB
PR: COP 2281, MAC 2311 or MAC 2241. This class prepares students to use the C programming language and the MATLAB environment to develop solutions to small scale scientific and engineering problems.

COP 2510 Programming Concepts (3) EN ESB
PR: MAC 2281 or equivalent. An examination of a modern programming language emphasizing programming concepts and design methodology.
This course introduces eXtensible Markup Language (XML), a technology for exchanging structured information over the Internet, and examines a sampling of its many applications.

PR: CI. Completion of prerequisites for admission to IT program. Junior standing or above. This course builds on students' knowledge of web development and databases by adding server-side scripting using the PHP language to interact with the mySQL database system to build transaction processing and report generating systems over the Internet.

PR: COP 3173 or equivalent. Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

PR: COP 3514 Design of a computer program using an Object-Oriented programming language. Extension of programming knowledge from a procedural language to an object-oriented language. Analysis of program requirements.

PR: COP 2510 or comparable introductory programming course and CR: EEL 2281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

PR: COP 3514 or equivalent. Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

PR: COP 3514 Design of a computer program using an Object-Oriented programming language. Extension of programming knowledge from a procedural language to an object-oriented language. Analysis of program requirements.

PR: COP 3514 Program Design (3) EN ESB

PR: COP 3515 Program Design for Information Technology (3) US EIT

PR: COP 2510 or CI. Concepts associated with the design and implementation of computer programs are studied, with emphasis on creation of programs to be developed and maintained in a variety of environments from small to large information technology organizations.

PR: COP 3514 or equivalent. Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

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PR: COP 3514 or equivalent. Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.
CRW 3311 Form and Technique of Poetry (3) AS ENG
An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

CRW 3312 Poetry I (3) AS ENG
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and nonmetrical forms.

CRW 3321 Poetry II (3) AS ENG
PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

CRW 4120 Fiction III (3) AS ENG
PR: CRW 2100 or CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop in which works may be carried over from CRW 3121 or longer forms such as the novel may be begun.

CRW 4320 Poetry III (3) AS ENG
PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop in which students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses.

CRW 4930 Selected Topics in Creative Writing (1-4) AS ENG
PR: 12 hours of CRW courses or CI. The focus of the course will be determined by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be taken twice for credit with different topics.

CWR 4202 Hydraulics I (3) EN EGX
PR: EGN 3353. Fundamental and applied aspects of pipe flow, free-surface flow, and unsteady flow for hydraulic systems.

CWR 4540 Water Resources Engineering I (3) EN EGX
PR: CWR 4202. A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

CWR 4541 Water Resources Engineering II (3) EN EGX
PR: EGN 3353, CWR 4202. The course is intended to be a technical elective for students specializing in water resources or environmental engineering. Material in the course covers subsurface hydrology including both soil vadose zone processes and the ground water flow.

CWR 4812 Capstone Water Resources/Environmental Design MW (4) EN EGX
PR: CWR 4540, ENV 4001, CR: ENV 4417, CWR 4202, CEG 4012 or TTE 4405. A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design oriented course to design both industrial and domestic water treatment, and waste water transport systems and hydraulic systems, including drainage, water supply, and flood control.

DAA 2100 Fundamentals Of Modern Dance I (2) VP DAN
PR: Admission by placement audition. A studio class for students with a serious interest in concert modern dance. Further emphasis on correct alignment, development of strength, rhythmic and dynamic activity, as well as spatial and locomotor patterns. May be repeated up to 6 credit hours.

DAA 2200 Fundamentals Of Ballet I (2) VP DAN
A studio class for students with a serious interest in Ballet. Emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated up to 6 credit hours.

DAA 2500 Fundamentals Of Jazz Dance I (2) VP DAN
PR: Admission by placement audition. A studio class for students with a serious interest in Jazz Dance. Emphasis is on the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

DAA 2504 Jazz Dance I (2) VP DAN
PR: Admission by placement audition. Practical work in Jazz Dance vocabulary, alignment, styles and simple rhythmic patterns. May be repeated up to 6 credits.

DAA 4110 Modern Dance IV (3-4) VP DAN
PR: Admission by placement audition. Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Solo and ensemble studies leading to performance. May be repeated up to 6 credits.
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<td>DAE 4987</td>
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<td>DAE 4964</td>
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**UNIVERSITY OF SOUTH FLORIDA - 2008/2009 UNDERGRADUATE CATALOG**

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<td>Selected Topics In Dance (1-5)</td>
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<td>DEC 4161</td>
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<td>DEP 2004</td>
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<td>DEP 3103</td>
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<td>DEP 4053</td>
<td>Developmental Psychology (3)</td>
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ECH 4121 Hydro and Aerodynamics (3) EN EGR
PR: EML 3701, MAP 2302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

ECH 303C Matrix Algebra and Equilibrium (4) EN ECH
PR: PHY 2049, MAC 2283, CHM 2020, CP: EGN 3343. Integration of previous knowledge into the definition of reactors and separation processes, through the hierarchical use of material balance, phenomenological and energy balance equations. Representation of processes as arrows and processes as black boxes in Box Flow Diagrams. BFD. Application of degree of freedom analysis.

ECH 3242L Chemical Engineering Lab I (1) EN ECH
PR: ECH 3023C, ENC 3246, EGN 3443. The theory and application of chemical engineering, instrumental measurement methods; density, temperature, flow, pressure, viscosity, refractive index, humidity, gaseous and liquid composition, and pH/ionic selective electrodes (ISE) analysis.

ECH 3702 Instrument Systems I (3) EN ECH
PR: MAP 2302 or EGN 3433; EGN 3343 and ECH 3023C or CI. Basic concepts of electric circuits and their applications. Resistors, capacitors, inductors, logic operations, junction devices. Programmable logic controllers, ladder diagrams.

ECH 4123 Chemical Engineering Thermodynamics (3) EN ECH
PR: ECH 3023, EGN 3343, MAP 2302 or EGN 3433. Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design.

ECH 4243L Chemical Engineering Lab II (1) EN ECH
PR: ECH 4265C, ECH 3242L. Chemical Engineering processes laboratory experiments: fluid flow, heat transfer, and chemical equilibria, reacting systems, and process control.

ECH 4244L Chemical Engineering Lab III (1) EN ECH
PR: ECH 4243L. Chemical Engineering processes laboratory experiments: fluid flow, heat transfer, reacting systems, and process control. Majors only. Not repeatable for credit.

ECH 4264 Transport Phenomena (4) EN ECH

ECH 4265C Mass Transfer Operations (4) EN ECH
PR: ECH4845, ECH4264, ECH4123. Integration of phase equilibria with the principles of fluid mechanics, heat and mass transfer in the description of separation processes. Selection of the number of stages and limiting operating conditions in cascades — NTU and HTU. Sizing of partial condensers and pressure differential in columns. Transfer to single particles.

ECH 4323C Process Dynamics and Control (3) EN ECH

ECH 4845 Numerical Methods in Chemical Engineering (4) EN ECH
PR: ECH 3023C, ECH 3343, EGN 3443 or MAP 2302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

ECH 4930 Independent Study (1-4) EN ECH
PR: CI. Specialized independent study determined by the student's needs and interests. Students must have contract with instructor.

ECH 4931 Special Topics in Chemical Engineering II (1-4) EN ECH
PR: CI.

ECH 4936 Undergraduate Seminar (1) EN ECH

ECH 522049, ECH 3242L. Chemical Engineering processes laboratory experiments: fluid flow, heat transfer, and chemical equilibria, reacting systems, and process control.

ECH 5327 Chemical Process Control (4) EN ECH
PR: ECH 520445, ECH 4265C. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

ECH 5321 Chemical Process Engineering II (4) EN ECH
PR: ECH 520445, ECH 4265C. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

ECH 5322 Chemical Process Engineering III (4) EN ECH
PR: ECH 520445, ECH 4265C. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

ECH 5324 Automatic Process Control II (3) EN ECH
PR: ECH 3023C or CI, majors only / 2 hrs lec., 3 hrs. lab/week. The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feedforward, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.

ECH 5330 Theoretical and Experimental Bioprocesses (3) EN ECH
PR: CC. Introduction to biotechnology, including applied microbiology, enzymology in technology, biosensor production, bioreactor design, and process control. Not available for chemical engineering students.

ECH 5334 Introduction to Bioproducts (1-3) EN ECH
PR: CC. Introduction to biotechnology, including applied microbiology, enzymology in technology, biosensor production, bioreactor design, and process control. Not available for chemical engineering students.
development, the product development environment, and a detailed examination of several product growth and economic growth.

ECO 4704 International Trade and Policy (3) BA ECN
PR: ECP 3703 or ECO 3101 with a grade of “C-” or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.

ECO 4713 International Macroeconomics (3) BA ECN
PR: ECP 3703 or ECO 3101 with a grade of “C-” or better. Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.

ECO 4905 Independent Study (1-3) BA ECN
PR: CI. S/U only. Specialized independent study determined by the student’s needs and interests. May be repeated up to 6 hours.

ECO 4914 Independent Research (1-3) BA ECN
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

ECO 4935 Selected Topics in Economics (1-3) BA ECN
Topics to be selected by the instructor or instructors on pertinent economic issues.

ECP 3201 Economics of Women and Work MW (3) BA ECN
PR: ECO 1000 or ECO 2013 and ECO 2023. Survey of research on women, men and work in the labor market and the household. Focus on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, and gender differences in occupation and earnings.

ECP 3203 Labor Economics (3) BA ECN
PR: ECP 3703 or ECO 3101 with a grade of “C-” or better. Determinants of wage and employment levels; occupational, industrial and geographical wage differentials; union and public policy effects on labor markets, the economics of discrimination, inflation, and unemployment.

ECP 3302 Environmental Economics MW (3) BA ECN
PR: ECO 2013. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

ECP 3413 Economics of Regulation and Antitrust (3) BA ECN
PR: ECO 2013 and ECO 2023. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues such as price fixing, mergers, and monopolization, and issues regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.

ECP 3530 Economics of Health (3) BA ECN
PR: ECP 3703 or ECO 3101 with a grade of “C-” or better. Application of microeconomic methods to health care topics such as demand for medical care, public and private health insurance, physician and hospital supply of medical care, government regulations, and national healthcare systems.

ECP 3613 Economics of the Urban Environment MW (3) BA ECN
PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. Economic analysis of cities and urban social problems. Poverty, discrimination, housing, transportation, pollution, crime, and fiscal considerations.

ECP 3703 Managerial Economics (3) BA ECN
PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. May not receive credit for both ECP 3703 and ECO 3101. Formerly ECO 3100.

ECP 4006 Economics of Sports (3) BA ECN
PR: ECO 3101 or ECO 3703. This course teaches economics using sports as a backdrop. Topics covered include the economics of labor markets, exploitation, discrimination, monopoly, monopsony, game theory, bargaining, and cartels. No particular knowledge of sports is required.

ECP 4232 Collective Bargaining and Public Policy (3) BA ECN
PR: ECO 2023 or CI. Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.

ECP 4451 Law and Economics (3) BA ECN
PR: ECO 2013 and ECO 2023. Advanced analysis of the economic impact of tort, criminal, property, and contract law as well as in the formation and adjudication of law.

ECP 4505 Economics of Crime (3) BA ECN
ECP 4708 Economics of Business Strategy (3) BA ECN
PR: ECO 3101 or ECO 3703. This course examines strategies businesses can employ to improve their abilities to compete profitably. Employs game theory to examine horizontal and vertical boundaries of firm, strategic diversification, pricing, and entry deterrence.

ECS 3013 Economic Development (3) BA ECN

ECS 4003 Comparative Economic Systems MW (3) BA ECON
PR: ECO 1000 or ECO 2013 or ECO 2023 or Cl. The major economic systems: traditional, capitalism, democratic socialism, communism and fascism.

ECS 4303 Economics of Latin America AF MW (3) BA ECON
PR: ECO 1000, or BOTH ECO 2013 and ECO 2023. The course examines key aspects of economic reform efforts in Latin America and the Caribbean and the challenges facing the region at the beginning of the 21st century.

EDE 4223 Creative Experiences for the Child (3) ED EDE
PR: Acceptance into College of Education. Provides students with critical understanding of visual arts, music, movement, and drama in K-6 curriculum. Students will develop knowledge and strategies to incorporate creative expression into integrated curriculum. Restricted to majors. Not repeatable.

EDE 4301 Classroom Management, School Safety, Ethics, Law and Elementary Methods (3) ED EDE
PR: Admission to the program in the Department of Childhood Education. This course examines the legal issues affecting classroom/school management, school safety, professional ethics and elementary school methods. The course prepares students to incorporate the current knowledge of best practices of a variety of teaching and management strategies and methods deemed appropriate for a diverse elementary classroom setting including ESOL students and other exceptionalities.

EDE 4905 Independent Study: Elementary Education (1-4) ED EDE
S/U only. Specialized independent study determined by the student's needs and interests.

EDE 4909 Directed Study: Elementary Education (1-3) ED EDE
PR: Senior standing. To extend competency in teaching field.

EDG 4840 Internship: Elementary Education (10-12) ED EDE
PR: EDE 4941 and EDE 4942, CR: EDE 4936, S/U only. Teacher candidate is required to demonstrate professional competencies during one semester of full day internship in a public or private elementary school.

EDE 4941 Childhood Education Internship Level I (3) ED EDE
PR: Admission to the Elementary Education. CR: RED 4310, EDG 4620. Concurrent enrollment in EDG 4620-Elementary section. S/ U only. Students spend six hours per week in a supervised in-school and attend weekly seminar.

EDE 4942 Childhood Education Internship Level II (6) ED EDE
PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDF 4131, MAE 4130, MAE 4131, SCE 4310, LAE 4412, S/E 4313, LAE 2040. S/U only. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar.

EDE 2905 Introduction to Education and Field Experience (3) ED EDE
Introductory survey course required for admission into the College of Education. A broad overview of the history, sociology and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

EDF 3122 Learning and the Developing Child (3) ED EDF
PR: General psychology and admission to College of Education. Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of classroom.

EDF 3214 Human Development And Learning (3) ED EDF
PR: General psychology and admission to College of Education. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional groups, analysis of teacher behavior, micro-teaching.

EDF 3228 Human Behavior and Environmental Selection 6A MW (3) ED EDF
Learning principles, behavior analysis applied to global environmental and social issues. Requires elementary computer word processing skills.

EDF 3514 History of Education in the United States HP MW (3) ED EDF
PR: Upper-division standing. History of childhood, education, and schooling in the U.S. from early European and African contact to the present.

EDF 3604 Social Foundations of Education MW (3) ED EDF
PR: Upper level standing within which schools function and the values which provide direction for our schools.

EDF 4111 Child Growth and Learning (3) ED EDF
An introduction to child development and learning from an educational and psychological perspective. Emphasis is on the application of relevant constructs as they would reflect developmentally appropriate practices in early childhood learning settings.

EDF 4131 Learning And The Developing Adolescent (3) ED EDF
PR: General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

EDF 4430 Measurement For Teachers (3) ED EDQ
PR: Upper level standing. Concepts and skills related to designing and developing classroom tests; evaluating tests, instruction, and student progress; and communicating student achievement. Including application of performance assessment techniques and computer applications for measuring and assessing pupil progress.

EDF 4490 Studies in Research Design (3) ED EDE
Studies in Research Design introduces students to the logic and dynamics of the research process.

EDG 4905 Independent Study: Educational Foundations (1-4) ED EDE
PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

EDG 4909 Directed Study: Educational Foundations (1-3) ED EDE
PR: Admission to College of Education. Includes lecture and field experience.

EDG 5607 Trends in the Social-Political Foundations of Schooling in the US (3) ED EDE
Current debates re: purpose and practice of formal schooling in the U.S. with historical and sociological perspectives. Satisfies social foundations requirements for Fia, Teacher certification and ESL competency in knowledge of intercultural issues in education.

EDG 2701 Teaching Diverse Populations and Field Experience (3) ED EDE
Introductory course required for admission into the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

EDG 4012 Standards Based Education (1) ED EDE
PR: FLE 4317 for undergraduate, FLE 5345 for graduate students. This course is designed to introduce students to standards-based education, linking program outcomes for student learning with the relevant state and national educational standards. The course is restricted to majors and is not repeatable for credit.

EDG 4320 Introduction to Creative Drama (3) VP EDE
The course for classroom teachers introduces the theory and practice of creative drama as it applies to use by elementary, middle school and secondary school teachers. Beginning with a study of dramatic play as it relates to human development, the course includes basic strategies when using pantomime, voice improvisation, theatre games, and role playing and story dramatization.

EDG 4620 Curriculum and Instruction (3) ED EDE
An introduction to the field of curriculum and instruction. Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.

EDG 4909 Directed Studies (1-4) ED EDE
PR: Senior standing. Offered only as a scheduled class. Department permit required. To extend competency in teaching field.

ECC 2000 Introduction to Early Childhood Education (3) ED EDE
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

ECC 4008 Literature in Early Childhood Education 6A FW (3) ED EDE
Jr./Sr. Standing. Emphasis is placed on developing knowledge of literature for younger children (0-8 yrs.) and methodologies and strategies for utilizing literature to teach literacy in content areas of the curriculum.

ECC 4203 Programs for Young Children (3) ED EDE
PR: Admission to College of Education. Early Childhood majors only. Develops students' understanding of historical and social foundations of early childhood education, establishing professional beliefs regarding teaching young children, and developing an appropriate learning environment.
EEL 4421 RF/Microwave Circuits I (3) EN EGE
PR: EEL 4301. Provides basic principles of RF communications circuits, antennas, microwave electronics and techniques. Requires the design and construction of a short range communications link including a transmitter and a superheterodyne receiver.

EEL 4351C Semiconductor Devices (3) EN EGE
PR: EEE 3394. An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

EEL 4420 RF & Microwave Measurements (3) EN EGE
PR: EEL 4316L or CI. This course introduces students to the theory and applications of modern radio frequency and microwave measurements. Topics to be included are network analyzer, spectrum analyzer, vector network analyzer, power, and non-linear distortion measurements. Modern trends also treated are the use of on-wafer measurements for transistor characterization and the evaluation of monolithic microwave integrated circuits.

EEL 4421 RF/Microwave Circuits I (3) EN EGE
PR: EEL 3100, EEL 4471. Introduction to passive microwave circuit design. Investigate the characteristics of transmission lines used in modern microwave systems, the tools used for analysis, and some common circuit topologies for matching, filtering and power
distribution. Part one of a two-part sequence. EE majors only. Not available on an S/U basis.

EEL 4422 RF/Microwave Circuits II (3) EN EGE
PR: EEL 4421. Introduction to active RF/Microwave circuit design. Investigate the characteristics of amplifiers and oscillators used in modern microwave systems, the tools used for analysis, and some common circuit topologies for biasing and matching. Substantial coverage of stability analysis, constant gain methods and noise figure. Part two of a two-part sequence. EE majors only.

EEL 4471 Electromagnetics MW (3) EN EGE
PR: MAP 2302 or EGN 3433, PHY 2049, PHY 2049L and EGN 3373 with a minimum grade of B. Electromagnetic field theory; including static, time-varying, and electro-magnetic fields; applications; environmental effects (effects of radiation, magnetic fields).

EEL 4512C Introduction to Communication Systems (3) EN EGE
PR: EEL 3100. Provides an introduction to the fundamental principles and techniques of analog and digital communication systems. Theory is put into practice by investigating a variety of applications. Lectures and projects develop understanding of modern communication systems design and analysis.

EEL 4567 Linear Control Systems (3) EN EGE
PR: ERL 3301L, ERL 3302L, EEL 4471. An introduction to the field of electo-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.

EEL 4657 Linear Control Systems (3) EN EGE

EEL 4657L Linear Controls Laboratory (1) EN EGE
PR: EEL 4657. Laboratory method introduces students to the techniques needed for the design and implementation of automatic industrial control systems. Students will learn the basics of the software and hardware used for the design and implementation of control systems.

EEL 4705 Logic Design (3) EN EGE
PR: EGN 3373 with a minimum grade of B for EE students only. Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.

EEL 4705L Logic Laboratory (1) EN EGE
CR: EEL 4705. Develops designs and demonstrates logic concepts. Schematic capture for design implementation, simulation and design verification.

EEL 4743L Microprocessor Laboratory (1) EN EGE
CR: EEL 4744. Application of microprocessors and microcontrollers for data entry, processing, display and real time signal input/output and control.

EEL 4744 Microprocessor Principles and Applications (3) EN EGE

EEL 4748 Microprocessor-Based System Design and Application (3) EN ESB
PR: CDA 3201. CDA 3201L. Study of techniques for design of microprocessor-based systems used in various applications. Includes a project on development of an experimental application system.

EEL 4756 Digital Signal Processing (3) EN ESB
PR: EEL 4102. Sampling and quantization of signals; frequency-domain representations, transforms; digital filtering filter structures; DFT, FFT, multi-rate processing. Spectral analysis.

EEL 4781C Distributed Processing and Computer Networks (3) EN ESB
PR: EEL 4851C. Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.

EEL 4782 Computer Information Networks for Information Technology (3) US EIT
The course covers concepts of computer networks. Physical and logical structures are presented. Physical media, circuit switching, data flow, high-level protocols, and the ISO model are discussed. Bus, ring, star, and wireless topologies are presented.

EEL 4782L Information Networks Laboratory for Information Technology (1) US EIT
CR: COP 4610 or CI. The lab section of this course will allow students to apply hardware and software concepts discussed in the lecture portion of the class. Special isolated networking labs provide both software and hardware tools for student experimentation.

EEL 4851C Data Structures (3) EN ESB
PR: CDA 3103, COP 3514 and Degree Program Admission. CSE majors only. Understand and implement fundamentals of concise data structure and organization for program efficiency, clarity and simplification. Implementation of different data types and structures. Understanding of current data structures.

EEL 4852C Data Base Systems (3) EN ESB
PR: EEL 4851C. Fundamentals of data base management systems. CODASYL, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.

EEL 4854 Data Structures and Algorithms for Information Technology (3) US EIT
PR: COP 3515 or CI. Representing data for manipulation by the computer is studied. Design and analysis of well-known data structures and algorithms to manipulate them, are studied. Program efficiency, clarity and speed are considered in various structures and algorithms.

EEL 4905 Independent Study (1-5) EN EGE
CR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

EEL 4906 Professional Issues and Engineering Design MW (3) EN EGE
CR: EEL 4301, EEL 4126C, EEL 4657, EEL 4744. An introduction of engineering design with applications specific to practical engineering problems. Included are discussion of real-world issues as economics, safety, ethics and the environment.

EEL 4914 Senior Project Design (3) EN EGE
PR: EEL 4906 and Senior standing. CI. Students apply the knowledge acquired in the classroom to design a system which meets a predetermined set of specifications. Students work individually or in small groups with a faculty member (project director) in their area of interest. (Majors only.)

EEL 4935 Special Electrical Engineering Topics I (1-4) EN EGE
EEL 4936 Special Electrical Engineering Topics II (1-4) EN EGE
EEL 4937 Special Electrical Engineering Topics III (1-4) EN EGE

EEL 5250 Power System Analysis (3) EN EGE
PR: EGN 3375. Analysis and design technique for AC power systems.

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

EEL 5356 Integrated Circuit Technology (3) EN EGE
PR: EEL 4351 or GS. Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.

EEL 5357 Analog CMOS/VLSI Design (3) EN EGE

EEL 5382 Physical Basis Of Microelectronics (3) EN EGE
PR: EEL 4471 or GS. Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.

EEL 5462 Antenna Theory (3) EN EGE
PR: EEL 4471 or GS. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.

EEL 5572C Local and Metropolitan Area Networks (3) EN EGE
PR: EEL 4512C or GS. Basics of data communication exchange of digital information over communication media; Basics of LANs/ MANs and its components: media topologies, access methods, etc; LAN/MAN architectures and protocols—IEEE 802.x LAN Standards; High speed LANs such as FDDI, IEEE 802.6 MAN, etc., Internetworking; LAN/MAN Design and selections.

EEL 5594L Wireless Circuits and Systems Laboratory (2) EN EGE
PR: EEL 4472. This class will provide introductory tutorial learning, plus hands-on experience in analysis, design and measurement in the field of wireless communications.

EEL 5563 Digital Control Systems (3) EN EGE
PR: EEL 4657 or GS. Sample data and digital control processes provide both software and hardware tools for student experimentation.

EEL 5754C Microprocessor Based Digital Signal Processing (3) EN EGE
PR: EEL 4705 or CI. Arithmetic systems, processing structures, efficient algorithms. DSP hardware, TI, NEC and other DSP
EEL 5771 Introduction to Computer Graphics I (3) EN ESB
PR: EEL 4851C. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.

EEL 5935 Special Electrical Engineering Topics I (1-3) EN EGE
EEL 5936 Special Electrical Engineering Topics II (1-3) EN EGE
EEL 5938 Special Electrical Engineering Topics III (1-3) EN EGE

EEX 4011 Foundations of Special Education (3) ED EDS
PR: DPR. CR: EEX 4941. Characteristics and needs of children who have learning disabilities, emotional disabilities, hearing impairments, multiple disabilities, physical handicaps, speech impairments, visual limitations, and who are gifted and talented.

EEX 4054 Perspectives on Learning and Behavioral Differences (3) EDS
PR: EEX 4011. The purpose of this course is to introduce students to the historical and theoretical perspectives on educating students with learning and behavioral differences, develop a critical understanding of current practices in service delivery systems, and examine professional issues and trends that impact the future of the field.

EEX 4070 Integrating Exceptional Students in the Regular Classroom (2-3) ED EDS
No credit for degree majors. Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of “mainstreamed” exceptional students. Concurrent field experience requirement included.

EEX 4221 Educational Assessment of Exceptional Students (3) EDES
PR: EDF 3211, EDF 4430 and EEX 4011. CR: EEX 4941 and EEX 4846. DPR. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

EEX 4243 Education of Exceptional Adolescents and Adults (3)
PR: EEX 4011 or equivalent or DPR. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs and community resources.

EEX 4604 Behavior Management for Special Needs and At-Risk Students (3) ED EDS
PR: EEX 4011. CR: EEX 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.

EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues 6A LW (3) ED EDS
DPR. This course is designed to use literature as a way to interpret the lives of children with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.

EEX 4846 Clinical Teaching in Special Education (3) ED EDS
PR: EEX 4011, DPR. CR: EEX 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

EEX 4905 Independent Study: Exceptional Student Education (1-3) ED EDS
PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

EEX 4909 Directed Study: Exceptional Student Education (1-3) EDES
PR: Senior standing. DPR. To extend competency in teaching field.

EEX 4910 Senior Seminar in Exceptional Student Education (1) EDES

EEX 4940 Internship: Exceptional Student Education (1-12) ED
CR: EEX 4936. S/U only. One full semester of internship in an agency, public or private school.

EEX 4941 Practicum in Exceptional Student Education (1-4) EDS
CR: Sem I: EEX 4011; Sem II: EEX 4604; Sem III: EEX 4221 and EEX 4941. Designed to provide teacher candidates with carefully planned and supervised clinical experiences with exceptional students populations in a variety of settings. Candidates demonstrate the ability to apply concepts, theories and research. Repeatable up to six credit hours.

EEX 5705 Seminar in Preschool Handicapped (2) ED EDS
PR: EEL 5771. Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services.

EEX 5752 Working With Families: A Pluralistic Perspective (3) ED EDS
PR: Introductory course in special education, GS. The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today.

EGI 441 Undergraduate Supervised Practicum in Gifted Student Education (1-6) ED EDS
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.

EGI 5051 Nature and Needs of the Gifted (3) ED EDS
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.

EGI 5506 Theory and Development of Creativity (3) ED EDS
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

EGI 5513 History of Technology HP (3) EN EGB
Covers the evolution of technology and its influence on society from pre-historic man to the modern day. Topics include: seven technological ages of man, methods of producing power, materials, transportation, communication and calculation, and technology and society.

EGN 2080 Light and the Arts: A Quantitative Approach FA (3) EN EGB
PR: EGN 2210. Circuit Mathematics and Physics (2) EN EGB
Remedial work on the mathematical and physical concepts that are necessary for EGN 3373. Differentiation and integration, complex numbers, phasors, vectors, the physical laws for resistors, capacitors, and inductors.

EGN 2082 History of Electrotechnology HP (3) EN EGB
Highlights the role of electrotechnology and its relation to the development of civilization. The contributions of Volta, Faraday, Morse, Bell, Hertz, Marconi, Franklin, etc. in the context of the development of western civilization. The impact of communications, electronics and computers in the twenty-first century.

EGN 2210 Computer Tools for Engineers (3) EN EGB
PR: MAC 2281. Students will be introduced to computer based engineering tools and their application to the solution of engineering problems. The programming language, FORTRAN, will be the most emphasized tool, but coverage will also be given to other engineering/mathematical tools such as equation solving tools and spreadsheets.

EGN 3000 Foundations of Engineering (1) EN EGB
PR: EGN 3311 Statics (3) EN EGB
Introduction to the profession of engineering. Exposure to the different disciplines of engineering incorporate examples of tools and techniques used in design and presentation.

EGN 3111 Statics (3) EN EGB

EGN 3321 Dynamics (3) EN EGB

EGN 3331 Mechanics of Materials (3) EN EGB
PR: EGN 3311. Stress, strain, Hook’s laws; torsion, beam, column analysis and combined stresses; inelastic effects, limit design. Lec.

EGN 3331L Mechanics of Materials Laboratory (1) EN EGB

EGN 3332 Intermediate Thermodynamics (3) EN EGB
PR: EGN 3311. The thermodynamic systems; properties, relations; applications. Lec.-lab.

EGN 3333 Electric Machinery (3) EN EGB

EGN 3335 Electrical Engineering Design (3) EN EGB

EGN 3350 Computer Programming for Engineers (3) EN EGB
PR: EGN 3311 Statics and Dynamics. Lec-pro. Introduction of FORTRAN and graphic packages.

EGN 3361 Fluid Mechanics (3) EN EGB

EGN 5331 Fluid Mechanics Laboratory (1) EN EGB
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I (3)</td>
<td>EN EGB</td>
<td>PHY 2049</td>
<td>Automatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real substances. Applications: power production and refrigeration, phase equilibria.</td>
</tr>
<tr>
<td>EGN 3353</td>
<td>Basic Fluid Mechanics (3)</td>
<td>EN EGB</td>
<td>CR: EGN 3311</td>
<td>Fundamental and experimental concepts in ideal and viscous fluid theory; momentum and energy calculation, introduction to hydraulics, pipe flow, lecture.</td>
</tr>
<tr>
<td>EGN 3358</td>
<td>Thermodynamics, Fluids, and Heat Transfer (4)</td>
<td>EN EGB</td>
<td>PHY 2049</td>
<td>Thermodynamic concepts of energy, entropy, work and heat and thermodynamic cycles. Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer.</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials Engineering I (3)</td>
<td>EN EGB</td>
<td>CHM 2046, CR: EGN 3311</td>
<td>Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.</td>
</tr>
<tr>
<td>EGN 3374</td>
<td>Introduction to Electrical Systems II (3)</td>
<td>EN EGB</td>
<td>CR: EGN 3373, CR: MAP 2302</td>
<td>A second course in linear passive circuits (following EGN 3373). An extension of the physical principles and models, AC/DC steady-state, transient analysis and power analysis techniques.</td>
</tr>
<tr>
<td>EGN 3375</td>
<td>Electromechanical Systems (3)</td>
<td>EN EGB</td>
<td>EGN 3373</td>
<td>With a minimum grade of B. Analysis of electromechanical device performance: transformers, transducers, DC motors and generators, AC motors and alternators.</td>
</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis (3)</td>
<td>EN EGB</td>
<td>MAC 2282</td>
<td>Introduction to aspects of matrix algebra and complex algebra which are essential in engineering: simultaneous equations, connection matrices, basic eigenvalue theory, the complex exponential.</td>
</tr>
<tr>
<td>EGN 3433</td>
<td>Modeling and Analysis of Engineering Systems (3)</td>
<td>EN EGB</td>
<td>MAC 2283, PHY 2049</td>
<td>Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical methods; use of computers in dynamic systems; analytical solution to first and second order ODEs. Restricted to majors.</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Probability and Statistics for Engineers (3)</td>
<td>EN EGB</td>
<td>MAC 2282</td>
<td>An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.</td>
</tr>
<tr>
<td>EGN 3613C</td>
<td>Engineering Economy I (3)</td>
<td>EN EGB</td>
<td>PR: EGS 1113</td>
<td>A study in analyzing the economic limitations imposed on engineering activities using basic models which consider the time value of money.</td>
</tr>
<tr>
<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications (3) EN EGB</td>
<td></td>
<td>MAC 2283, PHY 2049</td>
<td>Presents basic economic models used to evaluate engineering activities and an understanding of the social and ethical implications of financial decisions in a multicultural environment through lectures, case studies and current readings.</td>
</tr>
<tr>
<td>EGN 3835</td>
<td>Globalization and Technology (3)</td>
<td>EN EGB</td>
<td>PR: EGN 3365</td>
<td>Exploration of the fundamental processes underlying globalization with particular emphasis on the role of technological development in both historical and contemporary context.</td>
</tr>
<tr>
<td>EGN 4366</td>
<td>Materials Engineering II (3)</td>
<td>EN EGB</td>
<td>PR: EGN 3365</td>
<td>Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to ceramic and polymeric materials.</td>
</tr>
<tr>
<td>EGN 4450</td>
<td>Introduction to Linear Systems (2)</td>
<td>EN EGB</td>
<td>MAC 2282</td>
<td>Study and application of matrix algebra, differential equations and calculus of finite differences.</td>
</tr>
<tr>
<td>EGN 4831</td>
<td>Technology and Society MW (3)</td>
<td>EN EGB</td>
<td>MAC 2282</td>
<td>Non-technical survey of engineering activities: utilities, nuclear power, genetics, weaponry, space, etc. Examine the impact of technology on society.</td>
</tr>
<tr>
<td>EGN 4905</td>
<td>Independent Study (1-5)</td>
<td>EN EGB</td>
<td>PR: CI</td>
<td>Specialized independent study determined by the students' needs and interests.</td>
</tr>
<tr>
<td>EGN 4930</td>
<td>Special Topics in Engineering (1-3)</td>
<td>EN EGB</td>
<td>PR: CI</td>
<td>New technical topics of interest to engineering students.</td>
</tr>
<tr>
<td>EGN 5421</td>
<td>Engineering Applications for Vector Analysis (3)</td>
<td>EN EGB</td>
<td>PR: EGN 3615</td>
<td>Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.</td>
</tr>
<tr>
<td>EGN 5425</td>
<td>Engineering Applications of Complex Analysis (3)</td>
<td>EGB</td>
<td>PR: EGN 3615</td>
<td>Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.</td>
</tr>
<tr>
<td>EGN 5425</td>
<td>Engineering Applications of Advanced Matrix Computations (3) EN EGB</td>
<td></td>
<td>PR: EGN 3615</td>
<td>Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms, and matrix decompositions for control system and finite element applications.</td>
</tr>
<tr>
<td>EGS 1113</td>
<td>Introduction to Design Graphics (3)</td>
<td>EN EGB</td>
<td>PR: PHY 2049</td>
<td>The student learns how to graphically represent technical designs using sketches, traditional drawing tools, and AutoCAD. The lab features twenty Pentium II computers running AutoCad R14.</td>
</tr>
<tr>
<td>EIA 3192</td>
<td>Technology Education and Society (4)</td>
<td>ED EV</td>
<td>PR: EIN 3312C</td>
<td>Introduction to programs, facilities and opportunities in teaching Technology Education. Includes historical, current and futuristic implications of technology in society.</td>
</tr>
<tr>
<td>EIA 3460</td>
<td>Special Teaching Methods: Technology Education (3)</td>
<td>ED EV</td>
<td>EIN 3312C</td>
<td>Equips Technology Education instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.</td>
</tr>
<tr>
<td>EIN 3241</td>
<td>Ergonomics I (3)</td>
<td>US EIT</td>
<td>PR: EIN 3312C</td>
<td>Using the fundamentals of the design process, this course demonstrates the critical importance of ergonomic tools and underlying physical human capacities.</td>
</tr>
<tr>
<td>EIN 4242</td>
<td>Ergonomics II (3)</td>
<td>US EIT</td>
<td>PR: EIN 3241</td>
<td>This course applies the concepts of work design and measurements within the ergonomic arena to achieve work design that is ergonomically responsible and effective.</td>
</tr>
<tr>
<td>EIN 4243C</td>
<td>Human Factors 6A (3)</td>
<td>EN EGS</td>
<td>PR: EIN 3241, EIN 3443</td>
<td>Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.</td>
</tr>
<tr>
<td>EIN 4312C</td>
<td>Work Analysis (3)</td>
<td>EN EGS</td>
<td>PR: EIN 3241</td>
<td>Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.</td>
</tr>
<tr>
<td>EIN 4333</td>
<td>Production Control (3)</td>
<td>EN EGS</td>
<td>PR: ESI 4312, Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.</td>
<td></td>
</tr>
<tr>
<td>EIN 4352</td>
<td>Engineering Design Analysis (3)</td>
<td>EN EGS</td>
<td>PR: EGN 3615</td>
<td>This is a non-repeatable course restricted to Industrial Engineering majors. It provides students with the principles and techniques for the cost analysis, estimation and evaluation of engineering design in manufacturing organizations.</td>
</tr>
<tr>
<td>EIN 4364C</td>
<td>Facilities Design (3)</td>
<td>EN EGS</td>
<td>PR: EIN 4312C</td>
<td>Design and modification of industrial production and material handling facilities. Includes analysis techniques, use of computer programs, automated warehousing.</td>
</tr>
<tr>
<td>EIN 4601C</td>
<td>Automation and Robotics (3)</td>
<td>EN EGS</td>
<td>PR: EIN 4621</td>
<td>Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.</td>
</tr>
<tr>
<td>EIN 4621</td>
<td>Manufacturing Processes (3)</td>
<td>EN EGS</td>
<td>PR: EGS 1113</td>
<td>The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.</td>
</tr>
</tbody>
</table>
EIN 4891 Capstone Design MW (3) EN EGS  
PR: EIN 4364C; CR: ESL 4423. Course requires students to design an enterprise incorporating tools, techniques and approaches from industrial and management systems engineering. Students work in teams on an open-ended project that may be in either a research or consulting setting. Repeatable up to 3 credit hours.

EIN 4933 Special Topics in Industrial Engineering (1-5) EN EGS  
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

EIN 5174 Total Quality Management Concepts (3) EN EGS  
This course will examine the methodology and procedures that companies use to improve quality and its operational benefits, including the management transformation (paradigm shift) that is evolving. Unrestricted. Nonrepeatable for credit.

EIN 5182 Principles of Engineering Management (3) EN EGS  
Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.

EIN 5275 Work Physiology and Biomechanics (3) EN EGS  
PR: CC, majors only. Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.

EIN 5350 Technology and Finance (3) EN EGS  
A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments in industrial enterprises.

EIN 5357 Engineering Value Analysis (3) EN EGS  
PR: EIN 5219 or equiv., majors only. Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

EIN 5510 Manufacturing Systems Analysis (3) EN EGS  
PR: CC, majors only. The study of systems of manufacturing entities such as machines, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

EIV 4210 Program Management: Industrial-Technical Education (4) ED EDV  
Planning, organizing, motivating and controlling of the learning environment in Industrial-Technical Education classroom and laboratories. Program standards for OSHA, program review, record keeping, and budgeting will be examined.

EIV 4360 Special Teaching Methods: Industrial-Technical Education (4) ED EDV  
Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

EIV 5315 Program Management: Diversified Cooperative Training (3) ED EDV  
Organization, coordination, and budgeting of adult, cooperative, and special programs.

ELD 4011 Introduction to Specific Learning Disabilities (3) ED EDS  
PR: EEX 4011 or DPR. Characteristics, needs and abilities of children with SLD. Emphasis is on theories, issues, trends, and philosophy of problems for such children.

ELD 4905 Independent Study: Specific Learning Disabilities (1-3) ED EDS  
PR: DPR. S/U only. Specialized independent study determined by student’s needs and interests.

ELD 4909 Directed Study: Specific Learning Disabilities (1-3) ED EDS  
PR: Senior standing. DPR. To extend competency in teaching field.

ELD 4941 Undergraduate Supervised Practicum in SLD * (1-6) EDEDS  
PR: EEX 4011. S/U only. DPR. Supervised field experiences in assessment, behavior management and clinical teaching with classes for children who have specific learning disabilities.

ELR 3301L Laboratory I (1) EN EGE  
PR: EGN 3363 with a minimum grade of B. Basic circuit theory applications; computer-aided design tools, electrical measurement techniques.

ELR 3302L Laboratory II (1) EN EGE  
PR: EGN 3363L and a minimum grade of B of ELR 3302L. This laboratory is designed to introduce electrical engineering students to the design, building and testing of active electronic networks. Computer Aided Design tools and computer data acquisition strategies are examined in greater depth.

ELR 4316L Wireless Circuits & Systems Design Laboratory (2) ENENE  
PR: EEL 4471. An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern measurements, fabrication and computer-aided design experiences at both component and sub-system levels. Not available on an S/U basis.

EMA 4003 Introduction to Materials Science (3) ECH  
PR: ECH 4123 or Consent of Instructor. Introduction to the main families of materials and principles behind their design, selection, development, and behavior. Relationship of properties to structure and processing of materials. Not repeatable for credit. Majors and non-majors.

EMA 4324 Corrosion of Engineering Materials I (3) EN EGX  
PR: EGN 3365L. Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

EMA 5326 Corrosion Control (3) EN EGX  
PR: EGN 3365. Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

EME 2040 Introduction to Computers in Education (3) ED EDK  
Designed as an introduction to computer technology and its role in teaching and learning processes. Topics include educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools and telecommunications.

EME 5403 Computers in Education (3) ED EDK  
A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

EME 3285 Programming Concepts for Mechanical Engineers (1) EN EGR  
PR: MAC 2281, PHY 2048 Solution of engineering and science problems using programming language such as Visual Basic or Maple. Topics include fundamentals of programming, controlling program flow and arrays. Restricted to majors; not repeatable for credit.

EML 3041 Computational Methods (3) EN EGR  
PR: MAP 2302, EML 3035. Techniques to solving engineering problems using numerical methods. Topics include roots of equations, matrix algebra, simultaneous linear equations, numerical integration and differentiation, and curve fitting.

EML 3282 Kinematics and Dynamics of Machinery (3) EN EGR  
PR: EGN 3321 Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

EML 3303 Mechanical Engineering Lab I (3) EN EGR  

EML 3500 Mechanics of Solids (3) EN EGR  
PR: EGN 3311. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

EML 3701 Fluid Systems (3) EN EGR  
PR: EGN 3343, EGN 3321. Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

EML 4031 Visual Basic for Engineers and Scientists (3) EN EGR  
PR: EML 3041 Introduces students to the powerful graphical interface language of Visual Basic. Illustrates the use of the language in engineering science applications. First quarter of a two-course sequence.

EML 4106C Thermal Systems and Economics (3) EN EGR  
PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; turbine elements; refrigeration systems; heat networks; energy analysis.

EML 4124 Heat Transfer (3) EN EGR  
CR: EML 3701, EML 3041. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; correlation and selection of heat exchangers.

EML 4220 Vibrations (3) EN EGR  
A study of from five to eight of Shakespeare's comedies, histories, tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

ENL 3332 Late Shakespeare (3) AS ENG
A study of from five to eight of Shakespeare's problem plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

ENL 3334 Shakespeare from an Historical Perspective HP (3) AS ENG
Examines the plays of Shakespeare from Romeo and Juliet to Othello as manifestations of the social, political, and intellectual forces of the time. Lectures will be available on audio tapes. Will not be counted toward English major.

ENL 4122 19th Century British Novel (3) AS ENG
1) Study of the 19th-century British novel, including works by novelists such as Thackeray, Dickens, Eliot, Hardy, Trollope, and others. 2) Analysis of the characteristics of the novels and their historical, social, cultural, and political contexts.

ENL 4132 British Novel: Conrad to the Present (3) AS ENG
A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.

ENL 4303 Selected British Authors (3) AS ENG
The study of two or three major figures in British Literature. The course may include such writers as Wordsworth and Austen, Keats and Yeats, Joyce and Woolf. Specific topics will vary. May be taken twice for credit with different topics.

ENL 4311 Chaucer (3) AS ENG
An intensive study of The Canterbury Tales and major critical concerns.

ENL 4338 Advanced Studies in Shakespeare (3) AS ENG
PR: ENL 3331 or ENL 3332, or CI. Intensive study of selected plays of Shakespeare with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.

ENL 4341 Milton (3) AS ENG
Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

ENV 4001 Environmental Systems Engineering (3) EN EGX
CR: EGN 3353. An introduction to various aspects of environmental problems faced by today's society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection.

ENV 4004L Environmental/Hydraulics Engineering Lab (1) EN EGX
PR: EGN 3353. CR: ENV 4001. Laboratory experience in the measuring of environmental and hydraulic parameters.

ENV 4531 Solid Waste Engineering (2) EN EGX
Introduction to the principles of municipal solid waste management; waste minimization, recycle and disposal options. Design of landfill disposal systems. Course restricted to Civil and Environmental Engineering majors.

ENV 4417 Water Quality Treatment (3) EN EGX
PR: EGN 3353. An introduction to municipal water supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

ENV 4502 Water Treatment Engineering (3) EN EGX
PR: EGN 3353. CR: ENV 4001. The theory and design of unit operations normally used in the practice of environmental engineering, such as agitation and mixing of liquids, filtration, leaching, gas absorption, sedimentation and clarification, drying, and evaporation.

ENV 4503 Wastewater Treatment Engineering (3) EN EGX
PR: ECH 3023C, EGN 3353, ENV 4001. The theory and design of unit processes normally used in environmental engineering such as coagulation of colloidal materials, water stabilization, water softening and neutralization, ion exchange, adsorption and oxides, removal of iron and magnesium.

ENV 4552C Environmental Unit Operations and Processes (3) EN EGX
PR: ENV 4001, ENV 4417 or CI. Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and processes used in water and wastewater treatment including chlorination, activated carbon absorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation and settling. Application of experimental data to process analysis and design. Field monitoring of surface water quality; simulation of transport and transformation of pollutants in surface waters.

ENV 4891 Capstone Environmental Engineering Design Project MW (3) EN EGX
PR: EGN 3353. An introduction to environmental engineering and regulations and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 5013 Air Pollution Control (3) EN EGX
PR: EGN 3353. Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 5334 Hazardous Waste Management and Remedial Action (3) EN EGX
PR: EGN 3353 and one of the following: ENV 6347, ENV 6519, ENV 6558, or CI, majors only. Undergraduate preparation in environmental engineering or an environmental science program. Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations, site control; those aspects of treatment that are unique to remedial action.

ENV 5345 Solid Waste Control (3) EN EGX
PR: CI. Undergraduate preparation in environmental engineering, or graduate standing in environmental engineering or an environmental science program. Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal, thermal treatment.

ENV 5504C Environmental Engineering Processes (3) EN EGX
PR: ENV 4001, ENV 4004L, ENV 4417 Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and processes used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation and settling. This course is restricted to majors, has no external laboratory section associated with the course, is not available on an S/U basis only, is not cross-listed with another department or college.
ENY 3004C Introduction to Entomology (4) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2301, BSC 2301L, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

ENY 3505C Aquatic Entomology (4) AS BIO
PR: ENY 3004C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.

EPH 5051 Advanced Theories in Motor and Physical Disabilities (3) ED EDS
PR: EEX 4011 or DPR. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

EPH 5321 Educational Strategies for Physically and Multihandicapped Students (3) ED EDS
PR: EPH 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

ESE 4322 Classroom Management for Diverse School and Society (3) ED EDI
Focuses on classroom management in secondary schools including classroom climate, specific strategies to address management issues, school safety, violence, diversity, ethics, and educational law.

ESE 5344 Classroom Management for a Diverse Secondary School Population (3) ED EDI
This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical issues.

ESI 4142 Project Management (3) EN EGS

ESI 4221 Industrial Statistics and Quality Control (3) EN EGS
This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical issues.

ESI 4312 Deterministic O. R. (3) EN EGS
PR: COP 2510, EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, and PERT/CPM network are considered.

ESI 4313 Probabilistic O. R. (3) EN EGS

ESI 4523 Industrial Systems Simulation (3) EN EGS

ESI 4905 Independent Study (1-5) EN EGS
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

ESI 4911 Senior Project (2) EN EGS
PR: EIN 4384, CR: EIN 4333. ESI 4523. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with Chairman's approval.

ESI 5219 Statistical Methods For Engineering Managers (3) EN EGS
Not open to students who have had EGN 3443. Study of statistical methods applied to engineering management problems involving estimation and prediction of uncertainty.

ESI 5236 Reliability Engineering (3) EN EGS
PR: ESI 5219 or equiv., majors only. PR: EGI 3443 or equivalent. Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

ESI 5306 Operations Research For Engineering Management (3) EN EGS
Not open to students who have had ESI 4312. ESI 5219 or equiv., majors only. Linear programming, non-linear programming, queuing, inventory, network analysis.

ESI 5522 Computer Simulation (3) EN EGS
PR: ESI 4521 or equiv., majors only. Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

ETG 3612 Operations Management (3) EN ESB
PR: MAC 1105, CR: STA 2023. This course examines global strategies, project management, forecasting, location, scheduling, human resources, quality and math models as applied to the design and management of industrial operations.

ETG 3951 Special Topics For Information Technology (1-4) US EIT
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ETG 3933 Selected Topics in Technology (1-5) EN ESB
Selected Topics in Technology is repeatable for credit for 12 hours.

ETG 3934 Selected Topics in Technology (1-5) EN ESB
Selected Topics in Technology is repeatable for credit for 12 hours.

ETG 4930 Special Topics for Information Technology (1-4) US EIT
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ETG 4931 Special Topics in Technology I (1-5) EN ESB
PR: CI. No credit for Engineering Majors.

ETG 4932 Special Topics in Technology II (1-5) EN ESB
PR: CI. No credit for Engineering Majors.

ETI 4116 Industrial Quality Control (3) US EIT
PR: STA 2023. This course teaches the students the fundamental concepts of managing a quality assurance system.

EUH 2001 Western Civilization I (3) AS HTY
A survey course of the development of western civilization from the beginning of Western civilization to the Renaissance.

EUH 2002 Western Civilization II (3) AS HTY
A survey course of the development of western civilization from the Renaissance to the present.

EUH 2011 Ancient History I HP (3) AS HTY
An introductory survey of ancient history. EUH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome.

EUH 2012 Ancient History II HP (3) AS HTY
An introductory survey of ancient history. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 265.

EUH 2021 Byzantine History HP (3) AS HTY
A thematic survey of the history of the medieval Byzantine Empire and neighboring civilizations from ca. 284-1453.

EUH 2022 The Medieval West HP (3) AS HTY
A thematic survey of Western European and Mediterranean civilizations from ca. 312-1453.

EUH 2030 Modern European History I HP (3) AS HTY
A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution.

EUH 2031 Modern European History II HP (3) AS HTY
A thematic survey of Europe in the modern age. EUH 2031, treats the period from the French Revolution to the present.

EUH 2034 Renaissance and Beyond (4) AS HTY
A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.
EUV 3181 Medieval Culture (4) AS HTY
A survey of the medieval culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

EUV 3185 Vikings (4) AS HTY
The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.

EUH 3188 Medieval Society (4) AS HTY
A study of the daily life and attitudes of the medieval nobleman, peasant, townsman, and the agrarian-urban economy and society which affected their lives.

EUH 3184 Medieval Politics (4) AS HTY
An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, city, and church.

EUH 3202 History of 17th and 18th Century Europe (4) AS HTY
A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

EUH 3205 History of Nineteenth Century Europe (4) AS HTY
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

EUH 3210 History of Twentieth Century Europe (4) AS HTY
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

EUH 3401 Classical Greece (4) AS HTY
A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.

EUH 3402 Age of Alexander (4) AS HTY
A study focusing on the career of Alexander the Great and on the Greek and Macedonian conquest of Imperial Persia. Also treated are the great hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

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

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

EUH 3461 German History to 1870 (4) AS HTY
A political, social, and cultural approach to the history of the Germanans from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.

EUH 3462 German History 1870 to the Present (4) AS HTY
A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

EUH 3501 British History to 1688 (4) AS HTY
A study of major developments in British history from the 15th century to 1688.

EUH 3502 British History 1688 to Present (4) AS HTY
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern graphic western state.

EUH 3575 History of Imperial Russia, 1689-1917 (4) AS HTY
A survey of social, political, economic, and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include the enlightenment and modernization of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reforms, the role of the West, and the collapse of the Romanov dynasty.

EUH 3576 History of the Soviet Union, 1917-1991 (4) AS HTY
A study of Soviet society under communism from the Revolution to the collapse of the USSR. Topics include the origins and development of revolutionary socialism, the Bolshevik seizure of power, Stalinism and the Great Terror, popular dissent and resistance, the containment and influence of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.

EUS 3000 Europe SS (3) AS INT
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

EUS 3022 Russia SS HP AF (3) AS INT
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

EVR 2001 Introduction to Environmental Science NS (3) AS ESP
An introductory lecture and laboratory course linking the human and physical/biological world. The course will develop an understanding of population and resource interactions.

EVR 2001L Environmental Science Lab (1) AS ESP
A laboratory course linking the human and physical/biological world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field and classroom experiences.

EVR 2002 Environmental Science: Regional and Global Issues NS (3) AS ESP
This course will provide students with an understanding of the scientific principles underlying today's global environmental problems and their potential solutions. We will examine how our social, political and economic systems affect the environment.

EVR 2217 Energy, Environment and Sustainability NS (3) EN ECH PR: MAC 1105. A critical analysis of energy sources, distribution and consumption using scientific methodology. Attributes of commonly used energy sources including environmental impact. Social, political and economic implications from a global perspective.

EVR 2861 Introduction to Environmental Policy NS (3) AS ESP
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the local, national and international level.

EVR 4027 Wetland Environments MW (3) ESP PR: PCB 3043 or CI. Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and considerations of wetland conservation and policies.

EVR 4104 Karst Environments NS (3) AS ESP PR: EVR 2001. The objective is to provide an understanding of the scientific principles pertaining to karst environments in Florida and around the world. Both physical processes and human interactions/impacts will be examined. Not restricted to majors and not repeatable.

EVR 414 Climate Change NS (3) AS ESP PR: EVR 2001. The objective is to provide an understanding of the scientific principles pertaining to global and regional climate change. Both mechanisms causing the change and human impacts on climate will be examined. Not restricted to majors and not repeatable.

EVR 4218 Research Methods in Wildlife Ecology (3) AS ESP Research Methods in Wildlife Ecology will review the ways in which data are collected, analyzed, and reported, so that informed decisions about wildlife management and conservation can be made. The course will have both classroom and field components.

EVR 4900 Directed Readings (1-6) AS ESP To provide advanced students with interdisciplinary research experience in areas of specific interest.

EVR 4905 Independent Study (1-6) AS ESP To provide advanced students with the opportunity for independent study in areas of specific interest.

EVR 4910 Environmental Science and Policy Project (3-12) AS ESP Open to senior majors only. S/U only. Environmental science project consisting of research in a field related to environmental science/environmental policy. Supervised by a faculty member. Contract and report required.

EVR 4921 Environmental Science and Policy Seminar (1) AS ESP Restricted to senior majors. S/U only. A topical reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy.

EVR 4930 Selected topics (1-4) AS ESP 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 Environmental Science, Policy, Ethics and Management are included.

EVR 4940 Environmental Science Internship (3-12) AS ESP Open to senior majors only. S/U only. The purpose of this course is to promote the student's understanding and application of environmental science and policy within a practical organizational context. Contract and report required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT 4065</td>
<td>History and Principles of Vocational Education</td>
<td>(4) ED EDV</td>
<td>An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.</td>
</tr>
<tr>
<td>EVT 4084C</td>
<td>Professional Development in Industrial Technical Education</td>
<td>(1-3) ED EDV</td>
<td>Designed for the ITE teacher in forming plans of professional development. Competencies include the development of a personal education philosophy; attributes in creating harmonious school community relationships; and desirable staff and teacher associations.</td>
</tr>
<tr>
<td>EVT 4165</td>
<td>Curriculum Construction: Industrial-Technical Education</td>
<td>(4) ED EDV</td>
<td>Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced materials. Open to majors and non-majors.</td>
</tr>
<tr>
<td>EVT 4365</td>
<td>Basic Teaching Methods in Vocational Education</td>
<td>(4) ED EDV</td>
<td>Examines the role of the vocational instructor in the teaching learning process, looks at factors that promote and inhibit learning. Reviews a wide variety of instructional approaches, techniques and methods; includes selection of techniques for situations.</td>
</tr>
<tr>
<td>EVT 4367</td>
<td>Assessing Student Skill in Industrial Technical Education</td>
<td>(4) ED EDV</td>
<td>Techniques for assessing student's mastery of skills in industrial/technical education. Focuses on specific competencies including developing and administering performance tests, monitoring student progress, and others. Open to majors and non-majors.</td>
</tr>
<tr>
<td>EVT 4562</td>
<td>Vocational Education for Special Needs Students</td>
<td>(4) ED EDV</td>
<td>Focuses on modifying the vocational education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of minority, handicapped, disadvantaged, non-traditional and other special needs students.</td>
</tr>
<tr>
<td>EVT 4651</td>
<td>Equity in Schools and the Workplace 6A MW</td>
<td>(3) ED EDV</td>
<td>Issues related to gender equity in schools and the workplace. Includes legal, ethical, psychological, sociological, and economic factors; males and females in traditional and non-traditional occupations.</td>
</tr>
<tr>
<td>EVT 4905</td>
<td>Independent Study: Industrial-Technical Education</td>
<td>(1-3) ED EDV</td>
<td>PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.</td>
</tr>
<tr>
<td>EVT 4909</td>
<td>Directed Study: Industrial-Technical Education</td>
<td>(1-3) ED EDV</td>
<td>PR: CI. To extend competency in teaching field.</td>
</tr>
<tr>
<td>EVT 4936</td>
<td>Senior Seminar in Industrial-Technical Education</td>
<td>(2) ED EDV</td>
<td>PR: Senior standing; CR: EVT 4940. Synthesis of teacher candidate’s courses in complete college program.</td>
</tr>
<tr>
<td>EVT 4940</td>
<td>Internship: Industrial-Technical Education</td>
<td>(1-12) ED EDV</td>
<td>CR: EVT 4936. S/U only. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours.</td>
</tr>
<tr>
<td>EVT 4946</td>
<td>Supervised Field Experience: Industrial-Technical Education</td>
<td>(1-6) ED EDV</td>
<td>PR: CI. S/U only. Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.</td>
</tr>
<tr>
<td>EVT 5369</td>
<td>Preparation and Development for Teaching</td>
<td>(4) ED EDV</td>
<td>The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.</td>
</tr>
<tr>
<td>EVT 5664</td>
<td>School Community Development</td>
<td>(3) ED EDV</td>
<td>Identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement, and public support.</td>
</tr>
<tr>
<td>EXP 4104</td>
<td>Sensory Processes</td>
<td>(3) AS PSY</td>
<td>PR: PSY 3213 with a grade of C or better or CI. Available to both majors and non-majors. Psychophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.</td>
</tr>
<tr>
<td>EXP 4204C</td>
<td>Perception</td>
<td>(3) AS PSY</td>
<td>PR: PSY 3213 with a grade of C or better or CI. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.</td>
</tr>
<tr>
<td>EXP 4304</td>
<td>Motivation</td>
<td>(3) AS PSY</td>
<td>PR: PSY 3213 with a grade of C or better or CI. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.</td>
</tr>
<tr>
<td>EXP 4404</td>
<td>Psychology of Learning</td>
<td>(3) AS PSY</td>
<td>PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.</td>
</tr>
<tr>
<td>EXP 4640</td>
<td>Psychology of Language</td>
<td>(3) AS PSY</td>
<td>PR: PSY 3213. Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. The current status of theory and research in the field will be covered.</td>
</tr>
<tr>
<td>EXP 4680C</td>
<td>Cognitive Psychology</td>
<td>(3) AS PSY</td>
<td>PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.</td>
</tr>
<tr>
<td>FIL 2000</td>
<td>The Language Of Vision 6A FA</td>
<td>(4) VP ART</td>
<td>PR: BMC 2100 and BMC 3602 or DPR. The language, conventions, elements, and patterns of the film medium as related to current methods of effective mass communication and new theories of nonverbal communication.</td>
</tr>
<tr>
<td>FIL 3004</td>
<td>The Film as Mass Communication I: Syntax</td>
<td>(3) AS COM</td>
<td>PR: MMC 2100 and MMC 3602 or DPR. The language, conventions, elements, and patterns of the film medium as related to current methods of effective mass communication and new theories of nonverbal communication.</td>
</tr>
<tr>
<td>FIL 3400</td>
<td>Film as Mass Communication II</td>
<td>(3) AS COM</td>
<td>A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films.</td>
</tr>
<tr>
<td>FIL 3427C</td>
<td>Beginning Film</td>
<td>(3) VP ART</td>
<td>Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.</td>
</tr>
<tr>
<td>FIL 3845</td>
<td>World Cinema 6A FA</td>
<td>(4) VP ART</td>
<td>Offers international perspectives through an examination of films from around the world. Each week narrative films from acclaimed directors will be screened, read about and discussed.</td>
</tr>
<tr>
<td>FIL 4050</td>
<td>Social History of the Film</td>
<td>(3) AS COM</td>
<td>PR: MMC 2100 and MMC 3602 or DPR. The development of the film from 1945 to the present.</td>
</tr>
<tr>
<td>FIL 4433C</td>
<td>Advanced Film</td>
<td>(3) VP ART</td>
<td>PR: FIL 3845. More advanced projects in filmmaking to further develop works both technically and conceptually.</td>
</tr>
<tr>
<td>FIL 5469C</td>
<td>Scenography</td>
<td>(4) VP ART</td>
<td>PR: FIL 3845. More advanced projects in filmmaking to further develop works both technically and conceptually.</td>
</tr>
<tr>
<td>FIN 2104</td>
<td>Personal Finance</td>
<td>(3) BA FIN</td>
<td>Not available for credit to upper-level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA. Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints.</td>
</tr>
<tr>
<td>FIN 2106</td>
<td>Introduction to Investments</td>
<td>(3) BA FIN</td>
<td>Not available for credit to upper-level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA. Emphasizes the operations of the security markets and the risks and returns of alternative investment media. Designed for non-business administration students.</td>
</tr>
<tr>
<td>FIN 2935S</td>
<td>Selected Topics in Finance</td>
<td>(1-6) BA FIN</td>
<td>Not available for credit to upper-level students who have been admitted to the College of Business Administration. Topics to be selected by department chair.</td>
</tr>
<tr>
<td>FIN 3233</td>
<td>Money and Banking</td>
<td>(3) BA FIN</td>
<td>PR: ECO 2013. Examines the structure and operations of the U.S. monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.</td>
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<tr>
<td>FIN 3403</td>
<td>Principles of Finance</td>
<td>(3) BA FIN</td>
<td>PR: ACG 2071, ECO 2013, and ECO 2023. Study of the processes, decision structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.</td>
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FIN 3604 International Finance (3) BA FIN
PR: FIN 3403. Study of factors affecting international business, assessment of risks, international managerial finance, institutions and instruments of international business finance.

FIN 4245 Federal Reserve System and Monetary Policy (3) BA FIN
PR: FIN 3233 or CI. An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

FIN 4303 Financial Institutions and Markets (3) BA FIN
PR: FIN 3403. A study of financial institutions and their roles in the capital markets; includes the savings allocation, investment, and financial decision making processes.

FIN 4324 Bank Management (3) BA FIN
CP: FIN 3403. Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem-solving techniques to major problem areas in banking.

FIN 4412 Working Capital Management (3) BA FIN
PR: FIN 3403. An examination of short-term financial management - that is, policies and decisions related to managing the current operations of a firm. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.

FIN 4451 Advanced Corporation Finance (3) BA FIN
PR: FIN 3403. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganizations.

FIN 4443 Financial Policies and Strategies (3) BA FIN
PR: FIN 4444 seminar prior to enrollment. Primarily a capstone case exam of financial policies and the application of financial analysis to alternative strategies.

FIN 4461 Financial Statement Analysis (3) BA FIN
PR: FIN 3403. Provides an understanding of the relationship between financial statements produced in accordance with GAAP and the informational content such statements provide. After completing the course, the student should have a better understanding of the usefulness of published financial statements to various users in a variety of circumstances.

FIN 4504 Principles of Investments (3) BA FIN
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact on the valuation process.

FIN 4514 Advanced Investment Analysis and Management (3) BA FIN
PR: FIN 4504. A comprehensive study of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

FIN 4905 Independent Study (1-3) BA FIN
PR: CI, CC. S/U only. Specialized independent study determined by the student's needs and interests.

FIN 4915 Independent Research (1-3) BA FIN
PR: CI. The research project will be mutually determined by the student and instructor.

FIN 4934 Selected Topics in Finance (1-3) BA FIN
Topics to be selected by instructor and department chairperson on pertinent finance issues.

FLE 4290 Technology in the Foreign and Second Language Classroom (3) ED EXD
This course prepares pre-service and in-service teachers to infuse technology into foreign language and ESOL instruction. Students will develop technology skills and knowledge based on sound pedagogical principles that reflect research and theory in Second Language Acquisition and will apply this practical and theoretical knowledge to K-16 Foreign Language/ESOL instructional situations.

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School (3) ED EXD
PR: EDG 4620 or concurrent registration. Fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4316 Language Principles and Acquisition (1-3) ED EXD
PR: FLE 4317. Overview of applied Second Language Acquisition theory and the components of language, linking them to methods and techniques of providing comprehensible instruction and supporting the development of oral proficiency and literacy skills for (LEP) children.

FLE 4317 Teaching Students with Limited English Proficiency (3) ED EXD
This course is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for students with Limited English Proficiency.

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School (3) ED EXD
PR: FLE 4314. Fluency in the target language and in English or DPR. Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

FLE 4362 ESOL 1 - Curriculum and Pedagogy of ESOL (3) ED EXD
This course is designed to prepare pre-professional (pre-service) teachers to provide linguistically and culturally appropriate instruction, learning opportunities and assessment for English Language Learners (ELLs) in grades K-12.

FLE 4363 ESOL 2 - Literacy Development in English Language Learners (3) ED EXD
PR: FLE 4362 or FLE 4317. This course is designed to provide students with a critical understanding of instructional delivery which caters to the linguistic and literacy needs of minority/heritage communities. Providing students with a sociocultural-critical theoretical framework.

FLE 4364 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3) ED EXD
PR: FLE 4362 and FLE 4363. This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.

FLE 4365 ESOL Competencies and Strategies (1-3) ED EXD
Designed to enable participants to meet the special limitations and cultural educational needs of LEP students in content area classes. Designed to provide a theoretical and practical foundation for ESOL competencies and strategies.

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School (3) ED EXD
PR: Senior standing or enrollment in Plan II Master's Program or DPR. Required concurrently with FLE 4314 or FLE 4333. Fluency in the target language and in English. Pre-internship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

FLE 4936 Senior Seminar in Foreign Language Education (2) EDEX
PR: Senior standing. Required concurrently with internship. Analysis of teacher candidate's courses in complete college program.

FLE 4940 Internship: Foreign Language Education (1-12) ED EXD
Intern takes Senior Seminar in Education concurrently. S/U only. One full semester of internship in a public or private school.

FLE 5145 Language Principles, Acquisition and Teaching (3) EDEX
PR: FLE 5345 Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory and components of language. Methods & techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.

FLE 5291 Technology in the Foreign Language Classroom (3) EDEX
PR: FLE 5313 and FLE 5331. This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.

FLE 5313 Methods of Teaching Foreign Language and ESOL in the Elementary School (3) ED EXD
This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.

FLE 5331 Methods of Teaching Foreign Language and ESOL in the Secondary School (3) ED EXD
PR: FLE 5313. This course provides for the development of knowledge and skills necessary to prepare students to assume roles as foreign language (FL) and ESOL teachers at the secondary school level. It represents the second part of a sequence of methods courses.
FLE 5345 Teaching English Language Learners K-12 (3) ED EDX
This course is designed to introduce teachers to the theory and practice of teaching English Language Learners K-12. It covers phonological, morphological, and syntactic structures of English and French. Departmental approval required.

FRE 2240 Conversation II (3) AS WLE
PR: FRE 2241 or equivalent. Conversation practice with concentration on current idiomatic usage.

FRE 2241 Conversation I (3) AS WLE
PR: FRE 1121. For development of basic conversational skills.

FRE 2270 Overseas Study-Intro. French (1-4) AS WLE
PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required.

FRE 3234 Reading in French Literature and Culture (3) AS WLE
PR: Fre 2201 or equivalent. This course is designed to build reading skills in French while giving students a broad background in French culture.

FRE 3420 Composition I (3) AS WLE
PR: FRE 2200 and/or FRE 2201. A fundamental composition course for students who have completed FRE 2200 and/or 2201.

FRE 3440 French For Business (3) AS WLE
PR: FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.

FRE 3470 Overseas Study (1-6) AS WLE
Departmental approval required. An intensive study-travel project in France.

FRE 3500 French Civilization (3) AS WLE
Readings and discussion on the cultural history of France.

FRE 3502 The Francophone World MW (3) AS WLE
An undergraduate 3 credit course, which offers an overview of the Francophone world. This course is taught in French and meets throughout the world, outside of France: French Canada, the Caribbean, Belgium, Switzerland, the Maghreb, Sub-Saharan Africa, the Indian Ocean, the Middle East, Southeast Asia, Louisiana.

FRE 3692 African Images in Francophone Film HP AF SS MW (3) AS WLE
This is a film based course and technologically enhanced course which will look at cultural, socio-economic, political and gender issues in French speaking Africa. Course materials will be available in English and French.

FRE 4421 Composition II (3) AS WLE
Continuation of French composition. This course is designed to follow FRE 3420.

FRE 4471 Advanced Overseas Study (1-6) AS WLE
PR: FRE 3470 or CI. Departmental approval required. Intensive language study in France.

FRE 4700 French Linguistics (3) AS WLE
PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

FRE 4905 Directed Study (1-3) AS WLE
Departmental approval required.

FRE 4930 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

FRE 5245 Advanced Written Expression (3) AS WLE
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5566 Contemporary France (3) AS WLE
PR: FRE 3500 or equivalent. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

FRT 3001 Great French Love Stories in Translation MW (3) AS WLE
An overview of the evolution of the concept of romantic and passionate love in French literature throughout the centuries and its impact on western literature and thought.

FRT 3140 French Literary Masterpieces in English Translation 6A LW (3) AS WLE
A survey of the major works of France, tracing not only literary but intellectual and cultural history from the Middle Ages to the present.

FRW 4100 The French Novel MW (3) AS WLE
PR: FRE 3234, FRE 3420 or CI. Study of the most representative novels from the 17th to the 20th centuries in France, examining literary movements, ideas, and techniques. Course taught in French.

FRW 4101 Introduction to French Drama and Poetry MW (3) AS WLE
PR: FRE 3234. A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Molieire, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Vall concey, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year. Course taught in French.

FRW 5222 Classical Prose and Poetry (3) AS WLE
PR: FRW 4101. Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.
FRW 5745 French Literature of Quebec (3) AS WLE
PR: A survey of Francophone literature and cultures is recommended. Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.

FRW 5755 African and Caribbean Literature (3) AS WLE
PR: A survey of French literature. An overview of the main representative literary works in French from North and Sub-Saharan Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Taught in French.

FRW 5829 An Introduction to Modern French Literary Criticism (3) AS WLE
A graduate elective 3 credit course entirely taught in French, which offers a survey of the main trends and methods in 20th Century literary criticism, the French having been at the avant-garde of the field.

FRW 5934 Selected Topics (1-3) AS WLE
PR: Upper-level or graduate standing. Study of an author, movement or theme.

FSS 3231 Introduction to Food Production Management (3) US HH
Food preparation, standards and techniques in commercial food production and service. Factors affecting the quality of food, practical experience in food production and service, in accordance with food standards, sanitation & safety and cost control.

GEA 2000 World Regional Geography SS HP AF (4) AS GPY
Comparative and analytical analysis of representative regions of the world with emphasis on political, cultural, economic, environmental, and physical diversity.

GEA 3194 Regional Geography (4) AS GPY
Variable title course to systematically study and compare special regions identified by the instructor.

GEA 3405 Geography of Latin America 6A (4) AS GPY
Systematic geographic analysis of the Latin American world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

GEA 3500 Geography of Europe 6A (4) AS GPY
Systematic geographic analysis of the European world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

GEA 3703 Geography of Asia (4) AS GPY
Systematic geographic analysis of the Asian world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

GBE 2935 Selected Topics in Business (1-6) BA GBA
Topics to be selected by department chair.

GEB 4890 Strategic Management and Decision Making MW (3)
BA GBA
PR: Senior standing and FIN 3403, MAN 3025, MAR 3023. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4915 Independent Study (1-3) BA GBA
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

GEB 4915 Independent Research (1-4) BA GBA
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

GEB 4935 Selected Topics in Business Administration (1-4)
BA GBA
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

GEO 1930 Geography of Current Events SS (4) AS GPY
Application of basic geographic principles to the analysis of contemporary events in various parts of the world.

GEO 2200 Introduction to Physical Geography NS (3) AS GPY
CR: GEO 2200L. Principles of physical geography: maps, earth-surface relationships; meteorological, hydrological, geological, and glacial processes; and resultant landforms.

GEO 2200L Introduction to Physical Geography Lab (1) AS GPY
CR: GEO 2200. Laboratory portion of Introduction to Physical Geography (GEO 2200).

GEO 2371 Introduction to Earth Systems Science NS (3) AS GPY
For non-majors only. The application of basic earth system science analysis to environmental problems. Review of impact of human activities on the surface of the earth at local and global scales.

GEO 2400 Introduction to Human Geography SS (4) AS GPY
Systematic treatment of human activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.

GEO 2931 Special Topics (1-4) AS GPY
Topics are at the discretion of the instructor. This course will offer lower level topics to attract new majors.

GEO 3164C Research Methods in Geography (4) AS GPY
CR: GEO 2200. Laboratory portion of Introduction to Physical Geography (GEO 2200).

GEO 3602 Urban Geography (4) AS GPY
PR: STA 2023 or STA 2212 or QMB 2100. Statistical analysis in geographic research.

GEO 4064C Geographic Techniques and Methodology (4) AS GPY
PR: GIS 3006 and GEO 3164C, or CI. Selected topics in various geographic techniques and methodologies and their application.

GEO 4064C Topics in Physical Geography (4) AS GPY
PR: GEO 2200 or CI. Intensive study of a topic selected from physical geography.

GEO 4210 Process Geomorphology (4) AS GPY
PR: GEO 2200 or GLY 2010 or CI. Origin, evolution, and distribution of the landforms of North America.

GEO 4244 Tropical Meteorology NS (4) AS GPY
PR: GEO 2200, one approved Calculus course, or CI. This course examines the tropical atmosphere, its interaction with land and ocean, as well as weather and climate phenomena that are unique to the tropics. Students will take an in-depth look at hurricane climatology, the El Nino and Southern Oscillation phenomenon, thunderstorms and lightning, satellite remote sensing, monsoons, sea-breeze convergence and Florida climatology, surface energy exchange, land use change and its impact on tropical climates.

GEO 4265 Soil Genesis and Classification (4) AS GPY
PR: GEO 2200, or CI. A systematic study of soil genesis and classification with a focus on North American and Florida soils.

GEO 4280C Hydrology (4) AS GPY
PR: GEO 2200 or CI. Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrologic analyses to water-resource management issues are examined.

GEO 4284 Water Resources Management NS (4) AS GPY
PR: Senior standing. Geomorphic perspectives on water resources management at the global, national and local scale, including political, socio-economic, technical and scientific aspects.

GEO 4300 Biogeography (4) AS GPY
PR: GEO 2200 or CI. Analysis of the present and past distribution of species at an intermediate to large spatial scale.
GER 4340 Natural Hazards (4) AS GPY
PR: Junior or Senior Standing. Examination of the physical, social, economic, political, and cultural factors that create the phenomena of natural hazards. Case studies from around the world will include floods, droughts, tornadoes, hurricanes, freezes, heat waves, volcanic eruptions, earthquakes, tsunamis, and volcanic activities.

GEO 4372 Global Conservation 6A MW (4) AS GPY
The distribution, exploitation, and conservation of physical and human resources, ecology.

GER 4421 Cultural Geography (4) AS GPY
PR: GEO 2400 or CI. The interrelationships of culture and nature, from ancient times to the present.

GER 4471 Political Geography MW (4) AS GPY
PR: GEO 2400 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4302 Economic Geography (4) AS GPY
PR: GEO 2400 or CI. The spatial organization of economic production, consumption, and exchange systems.

GEO 4604 Topics in Urban Geography MW (4) AS GPY
PR: GEO 3602, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

GEO 4700 Transportation Geography (4) AS GPY
PR: GEO 2400 and GEO 3164 or CI. General concepts related to the movement of goods and people, with particular emphasis on spatial principles and urban transportation problems and planning.

GEO 4900 Directed Reading (1-4) AS GPY
PR: 20 hours in geography and CI prior to registration.

GEO 4910 Independent Research (1-4) AS GPY
PR: 20 hours in geography and CI prior to registration.

GEO 4930 Selected Topics (4) AS GPY
Topics are at the discretion of the instructor. This course will offer upper-level, advanced topics in all aspects of Geography. Course can be repeated for credit as long as the title is different, for up to 8 credits.

GEO 4933 Geography Colloquium (1) AS GPY
Senior Standing in geography. Weekly topical lectures by faculty and outside speakers. Students will develop a plan for their professional or graduate careers.

GER 1120L Beginning German I Laboratory (1) AS WLE
CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing German.

GER 1120L Beginning German I Laboratory (1) AS WLE
CR: GER 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

GER 1121L Beginning German I Laboratory II (4) AS WLE
PR: GER 1120L or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.

GER 1121L Beginning German I Laboratory (1) AS WLE
CR: GER 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

GER 2200L German II (3) AS WLE
PR: GER 1121 or equivalent. Review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.

GER 2201 German IV (3) AS WLE
PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.

GER 2240 Conversation I (3) AS WLE
PR: GER 1121. For development of basic conversational skills.

GER 3420 Composition I (3) AS WLE
A fundamental course for students who have completed GER 2200 or GER 2201.

GER 3440 German for Business and International Trade (3) AS WLE
PR: GER 2200, or CI. An introduction to the German language in ordinary business transactions.

GER 3500 German Civilization (3) AS WLE
PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.

GER 3573 Cultural Observations in Germany (3) AS WLE
This course allows students to experience Germany from a culturalistorical perspective and gives them insights into a city’s significance within Germany as a whole. It also includes an emphasis on German language use and cultural practices.

GER 4410 Conversation II (3) AS WLE
Free conversation based on the current German idiom.

GER 4421 Composition II (3) AS WLE
Practical training in modern German usage and differences of style.

GER 5845 History of the German Language (3) AS WLE
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.

GET 3103 German Literature in English Translation MW (3) AS WLE
Analysis and interpretation of selected major works of German literature, to be read in English, with regard to their thought content and relevance to out thoughts and actions.

GET 3522 Fantastic Films of Early German Cinema HP MW (4) AS WLE
Overview of early 20th century German films with emphasis on horror, science fiction, and fantasy films. Course offers insights into Germany’s artistic, intellectual, and social history, as well as general film history and criticism. Taught in English.

GET 3524 German Popular Film HP MW (4) AS WLE
Overview of films with significant popular success at German box office from 1920s to present. Films will be discussed in the context of Germany’s artistic, intellectual, and social history as well as general film history and criticism. Taught in English.

GET 4523 New German Cinema to Present MW HP (4) AS WLE
Analyzes and interprets of selected major works of German literature, to be read in English, with regard to their thought content and relevance to out thoughts and actions.

GEW 4900 Directed Study (1-3) AS WLE
Departmental approval required.

GEW 4930 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

GEW 5489 20th Century Literature to 1945 (3) AS WLE
Study of major trends in German literature since WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthall, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GEW 5490 20th Century Literature from 1945 to Present (3) AS WLE
Study of major trends in German literature since WW II with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.

GEW 5515 The Enlightenment (3) AS WLE
Selected dramas and critical writings by Lessing, Wieland, Kant.

GEW 5545 Romanticism (3) AS WLE
Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.

GEW 5555 Realism (3) AS WLE
Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.

GEW 5566 Faust (3) AS WLE
Sources, form, content, and literary significance of Urfaust and Faust.

GEW 5615 Schiller (3) AS WLE
Selected dramas, philosophical, and aesthetical writings.

GEW 5934 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

GEY 2000 Introduction to Gerontology SS (3) AS GEY
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multidisciplinary perspective, including the biological, psychological, and sociological aspects of aging.
GEY 3323 Community Services for Older Adults (3) AS GEY
This class is designed to introduce community resources to students to older adults and to careers in the field of aging services. Content includes theoretical and practical issues, as well as exposure to opportunities for service and employment.

GEY 3681 Physiological Changes and Aging (3) AS GEY
A survey of normal and pathological physical changes occurring from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.

GEY 3625 Sociocultural Aspects of Aging SS AF (3) AS GEY
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic aspects of aging, theories of sociocultural gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community.

GEY 4322 Gerontological Case Management (3) AS GEY
This course examines the role and function of case management in meeting the care needs of the older adult. All aspects of case management practice are covered, including the elements of the case management process as well as ethical and legal issues.

GEY 4327 Understanding Policies and Practices of Long Term Care HP SS MW (3) AS GEY
PR: GEY 2000. This course provides principles for managing disability in a variety of settings. Topics include historical context, experience of disability, and challenges of providing care for disabled persons. Course is repeatable and not restricted to GEY majors.

GEY 4328 Health Care Operations AF HP SS MW (3) AS GEY
PR: GEY 4327, ACG 2011, each with a grade of C or better. This course addresses the health care operations of long-term care facilities. This course is for students in the BS in long-term care administration, but not limited to GEY majors. The course is repeatable for credit.

GEY 4329 Regulatory and Clinical Operations (3) AS GEY
PR: GEY 4328, ACG 2011, each with a grade of C or better. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts. The course is not repeatable and not restricted to GEY majors.

GEY 4340 Retirement and LTC Housing for the Elderly (3) AS GEY
This course focuses on housing, environment, and long-term care theories, availability of affordable housing with services, and a number of age-related housing solutions. Repeatable for credit, and not restricted to GEY majors.

GEY 4360 Gerontological Counseling (3) AS GEY
An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.

GEY 4401 Research Methods in Gerontology (3) AS GEY
PR: STA 2122 or equivalent with a grade of C or better. Restricted to Geology majors with permission of the instructor. Methodology and techniques of social research in gerontology. Design of gerontology studies, collection and analysis of data, interpretation of results, and preparation of reports.

GEY 4608 Alzheimer’s Disease Management (3) AS GEY
PR: GEY 2000 or GEY 3326. This course will provide instruction on effective approaches for providing care to persons with Alzheimer’s Disease and related disorders in residential and home care settings. The major dementing disorders and typical behaviors presented by patients are presented along with strategies for successful behavior management. Building a dementia program and building dementia care teams are also covered.

GEY 4612 Psychology of Aging SS (3) AS GEY
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychology and applications of computerized cognitive assessments.

GEY 4628 Race, Ethnicity and Aging SS (3) AS GEY
This course addresses how people of different ethnic and racial groups age, in the physical, psychological, and social context. Topics include cultural competence and sensitivity. Not restricted; not repeatable.

GEY 4635 Business Management in an Aging Society MW (3) AS GEY
This course provides students with an interdisciplinary perspective that addresses both business management and the impact of our aging society on business.

GEY 4641 Death and Dying SS (3) AS GEY
A broad overview of basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered.

GEY 4647 Ethical and Legal Issues of Aging SS MW (3) AS GEY
A consideration of the major ethical and legal issues in aging and their implications for policies, priorities, and services.

GEY 4995 Directed Reading and Research (1-3) AS GEY
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

GEY 4935 Special Topics in Gerontology (3) AS GEY
Courses on topics such as pre-retirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.

GEY 4945 Field Placement (1-9) AS GEY
PR: CI. Subject to availability of internship sites approved by the School of Aging Studies. Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (6 hours), or to a nursing home if in the BS program (9 hours).

GEY 5620 Sociological Aspects Of Aging (3) AS GEY
Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.

GEY 5630 Economics and Aging (3) AS GEY
Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.

GEY 5642 Perspectives on Death and Dying (3) AS GEY
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

GIS 210C Map Interpretation (4) AS GPY
Analysis and synthesis of various types of maps and map projections.

GIS 3006 Computer Cartography (4) AS GPY
An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.

GIS 4035 Computer Cartography for Non-Majors (4) AS GPY
PR: GIS 3004 and GEO 3164C, or CI. An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.

GIS 4035C Remote Sensing of the Environment (4) AS GPY
PR: GIS 3006 and GEO 3164C, or CI. Analysis of satellite images and aerial photographs for studies of the environment.

GIS 4043C Geographical Information Systems (4) AS GPY
PR: GIS 3006 and GEO 3164C, or CI. An introduction to the concepts underlying Geographical Information Systems, with an emphasis on analytical capabilities of such systems in both raster and vector domains.

GIS 5049 GIS for Non-Majors (3) AS GPY
An introduction to the concepts underlying digital thematic mapping and geospatial information systems (GIS) for non-geography majors and non-geography graduate students.

GIS 5075 Global Positioning Systems (3) AS GPY
PR: GIS 5049. GIS for Non-Majors or permission from the instructor. Examination of the theory, operation and application of Global Positioning Systems (GPS).

GLY 2000 Environmental and Environmental Systems NS (3) AS GLY
May substitute for GLY 2010 for geology majors. This course examines the geology of the earth and the environment, using an earth systems approach that looks at interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will learn general principles of geology, travel-world-wide on the internet, and participate in discussions on topics ranging from the scientific method to the latest geologic discoveries. Open University course; taught via internet and TV. Open University course; taught via internet and TV.

GLY 2000L Essentials of Geology Laboratory (1) AS GLY
Fundamental concepts and skills of modern geology, including rock and mineral identification, analysis of geologic maps, field analysis, and applied photogeologic techniques. Open University course; taught via internet and TV.

GLY 2010L Dynamic Earth Laboratory (1) AS GLY
GLY 2030 Hazards of the Earth’s Surface: Environmental Geology NS (3) AS GLY
May substitute for GLY 2010 for geology majors. 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 aspects of land use and planning.

GLY 2050 Science, Earth and Life NS (3) AS GLY
May substitute for GLY 2010 for geology majors. The nature, history and philosophy of science intended primarily for non-science majors. Consideration of science as a way of knowing through examples taken primarily from historical geology and biology but also from physics and astronomy. Consideration of social relevance of science.

GLY 2051 Origins: From the Big Bang to the Ice Age NS (3) AS GLY
The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinction’s including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)

GLY 2100 History of the Earth and Life NS (3) AS GLY
PR: A course in geology. Required for Geology majors; open to non-majors. Study of the physical and biological history of the earth including evolution of the major groups of organisms, plate tectonics, and interpretation of ancient environments. Lab.

GLY 2100L Earth History Laboratory (1) AS GLY
Lab. study of the history of the earth and life. Required for Geology majors; open to non-majors.

GLY 2160 Geology of the National Parks NS (3) AS GLY
This course is an introduction to the nature of geologic processes including plate tectonics, earthquakes, volcanism, glaciation, and shoreline processes drawing on examples from our National Parks.

GLY 2930 Selected Topics in Geology (1-3) AS GLY
Does not count toward the geology major. Topical courses in geology of general interest.

GLY 3040 Fluid Geology of the National Parks (4) AS GLY

GLY 3311C The Solid Earth: Petrology and Geochemistry (4) AS GLY

GLY 3552C Sedimentary Record 1: Sedimentary Processes and Materials (4) AS GLY
PR: GLY 2000L. CHM 2045, MAC 2281. CR: GLY 3311C. A lecture and laboratory class that discusses sedimentary processes, formation and classification of sedimentary rock, and the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

GLY 3610C Introduction to Invertebrate Paleontology (4) AS GLY
PR: GLY 2100. BSC 2010 or equivalent strongly encouraged as background. Lectures cover principles and applications of paleontology, including biostratigraphy, taphonomy, paleoecology, and macro- and microevolutionary patterns and processes. Labs survey the invertebrate phyla comprising the bulk of the fossil record.

GLY 3720C The Fluid Earth (4) AS GLY
PR: GLY 2000L, MAC 2311 and MAC 2312 or equivalent; CHM 2045 and CHM 2046; PHY 2048 and PHY 2048L. Physical, chemical and biological processes affecting fluids of the lithosphere, oceans and atmosphere. Water as a geologic medium and global entity. A systems approach. Not available as S/U for geology majors; S/U available for others.

GLY 3850 Geology For Engineers (3) AS GLY
PR: Junior standing in College of Engineering or CI. No credit toward the geology major, or for those with credit for GLY 2010. An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems.

GLY 4045 Moons, Planets, and Meteors: An Introduction to Planetary Science NS (3) AS GLY
PR: Junior standing. Solar System exploration, from Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study, meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.

GLY 4053 Theories and Arguments about the Earth MW (3) AS GLY
PR: 2000 level geology course. History of thinking about the Earth: context - geologic controversies; emphasis - geologic reasoning.

GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (4) AS GLY
PR: GLY 2000L, GLY 3552C, BSC 2010. The study of "deep time", including how it is measured, how it is correlated over the Earth's surface, and how important physical, biologic, and chemical geologic processes have varied with time. Lec-Lab.

GLY 4554C Sedimentary Record 2: The Earth's Surface (4) AS GLY
PR: At least one course in Geology with lab. Principles of weathering, erosion, production, and transport of sediment on the earth's surface, and the resulting geomorphology. Modern sedimentary environments and the process-response systems that govern them. Course is open to anyone with at least one course in geology with lab. Course is not available on an S/U basis for geology majors; it is for other majors.

GLY 4734 Beaches and Coastal Environments MW (3) AS GLY
A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, and environmental hand.

GLY 4780 Geological Field Studies (1-3) AS GLY
PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. Lec. Field trip.

GLY 4822C Fluid Earth 2: Hydrogeology (4) AS GLY

GLY 4866 Computational Geology (3) AS GLY

GLY 4905 Independent Study (1-3) AS GLY
PR: CI. S/U only. Specialized independent study determined by the student’s needs and interests.

GLY 4915 Undergraduate Research (1-3) AS GLY
PR: Senior or advanced junior standing and written permission of department prior to registration. S/U only. Individual experimental investigations with faculty supervision.

GLY 4920 Geology Colloquium (1) AS GLY
PR: Senior standing in Geology. S/U only. Weekly topical lectures by faculty, graduate students and invited speakers.

GLY 4921 Geocommunications (3) AS GLY
PR: Twelve (12) or more hours upper level geology courses. A course in communicating within the disciplines of the earth sciences. Emphasis will be on: writing for publication and technical reports, presentation and preparation of posters, and preparation and presentation of oral papers in earth sciences. Course is open to anyone majoring in geology, geography, anthropology or environmental science and policy. Course is not available on a S/U basis for geology majors; S/U available for others.

GLY 4930 Selected Topics in Geology (1-4) AS GLY
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.

GLY 4946L Practical and Applied Geology: Teaching Experience (1) AS GLY
PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses. CI. CR: Enrollment in other Practical and Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to give students experience in teaching geology. Topics vary widely, with several different offerings each semester. May be repeated for credit.
GRA 4945 Graphic Design: Professional Practicum (3) VP ART
Restricted to majors. This course covers the organization and presentation of a design/advertising/graphic portfolio and appropriate related materials. Emphasis is upon portfolio development, professional production, and self promotional skills.

GRE 1121 Beginning Classical Greek I (4) AS WLE
PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 2140 New Testament Greek I (4) AS REL

GRE 2141 New Testament Greek II (4) AS REL

GRE 2220 Intermediate Classical Greek (4) AS WLE
PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level.

GRK 1120 Beginning Modern Greek I (4) AS WLE
CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 1127 Beginning Modern Greek II Laboratory (3) AS WLE
PR: Senior standing in geology or CI. CR: GRE 1127L. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only.

GLY 4949L Practical and Applied Geology: Field Experience (1) AS GLY
PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4950C Senior Project: Portfolio (3) VP ART
Restricted to majors. This course covers the organization and presentation of a design/advertising/graphic portfolio and appropriate related materials. Emphasis is upon portfolio development, professional production, and self promotional skills.

GRW 5934 Selected Topics (1-4) AS WLE
Departmental approval required. S/U only. Permits study options at departmental discretion.

HBR 1120 Modern Hebrew I (4) AS WLE
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

HBR 1121 Modern Hebrew II Laboratory (4) AS WLE
PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

HBR 2140 New Testament Hebrew I (4) AS WLE
PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

HBR 2141 New Testament Hebrew II (4) AS WLE
PR: HBR 1120 or its equivalent; CR: HBR 1121L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More advanced behavioral skills are attained. Basic reading skills are acquired.
HFT 2201 Modern Hebrew IV (4) AS WLE
PR: HBR 2220 or the equivalent. Continued study of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

HBR 2220 Modern Hebrew III (4) AS WLE
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

HBR 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion.

HEB 1120 Basic Hebrew I (4) AS REL
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

HEB 1121 Basic Hebrew II (4) AS REL
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

HFT 3005 Introduction to Hospitality and Tourism (3) US HRM
An overview of the hospitality industry, including all of its related fields: restaurant, lodging, meetings, conventions and exhibitions. Also featured are the applications of the general marketing, human resources, leadership, and management.

HFT 3263 Restaurant and Catering Management (3) US HRM
PR: HFT 3424, FSS 3231 Management of food and beverages as they relate to planning, production, supervision and cost control in restaurants and catering food services, with emphasis on techniques of food preparation, menu merchandising, food safety, bar service and the wine list.

HFT 3423 Hospitality Information Systems (3) US HRM
PR: ISM 3011, HFT 3005. The study of management information systems in the hospitality management industry. The students will evaluate software and hardware computer systems and applications software being used in the hospitality industry and develop selection strategies.

HFT 3424 Cost Control in Hospitality Operations (3) US HRM
PR: HFT 3005, FIN 3403, MAN 3025 Provides students with a thorough understanding of hospitality financial accounting concepts. The emphasis of the course is to use accounting information in making managerial decisions and to prepare and understand hospitality financial statements.

HFT 3503 Hospitality Marketing and Sales (3) US HRM
PR: MAR 3023 Principles of marketing and sales and practical application in hospitality marketing philosophies; the marketing mix; product differentiation; corporate travel market; and the association, convention, and trade show market.

HFT 3603 Law and Security for the Hospitality Industry (3) US HRM
PR: HFT 3005 Functions of the law, legal environment and legal reasoning. An overview of the security issues in the hospitality industry. The law pertaining to contracts, workmen’s comp, and the implications of the law and economic enterprise in the hospitality industry.

HFT 3861 Beverage Management (3) US HRM
An introduction to the identification, use and service of wines, spirits, and other alcoholic beverages. An in-depth analysis of beverage operations to include selection/storage, inventory, purchasing, sales/promotion/merchandising, profits and bar management.

HFT 4221 Human Resources Management (3) US HRM
PR: HFT 3005, MAR 3023 Designed to educate new managers and supervisors in the complex issues involved in a comprehensive human resource program and its importance to hotel and restaurant business. Workmen’s Compensation, ADA, training, unions, EEO and discrimination issues.

HFT 4253 Lodging Management (3) US HRM
PR: HFT 3005, MAN 3025 Principles, practices, and procedures of managerial functions as they relate to the operation of hotels. Training, conflict resolution, total quality management, crisis management, employee empowerment and service standards are focus of team building.

HFT 4323 Facilities Management in Hospitality Operations (3) US HRM
PR: HFT 3005 Engineering aspects of hospitality establishments, preventive maintenance procedures, energy conservation, waste management, pollution control, life safety systems, and facilities management and layout. Air conditioning and heating, sound control.

HFT 4471 Management Accounting and Finance in Hospitality (3) US HRM
PR: FIN 3403, HFT 3005, HFT 3424 Financial functions in hospitality, interpret hospitality financial statements, capital investment decision making, financial instruments and concepts.

HIS 3938 Special Topics (2-4) AS HTY
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, and topics may vary.

HIS 3939 Major Issues in History MW 3 (3) AS HTY
PR: History major status and 2.25 HTY major GPA required. An examination of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.

HIS 4104 Theory of History (4) AS HTY
PR: History major status and 2.25 HTY major GPA required. An introduction to the disciplines of history by examining a specific historical issue and its relation to at least one of the following dimensions: gender, race and ethnicity, international perspectives, environmental perspectives. Does not count for History major or minor credit.

HIS 4184 Theory of History (4) AS HTY
PR: History major status and 2.25 HTY major GPA required. An introduction to the disciplines of history by examining a specific historical issue and its relation to at least one of the following dimensions: gender, race and ethnicity, international perspectives, environmental perspectives. Does not count for History major or minor credit.

HIS 4900 Directed Reading (1-4) AS HTY
PR: CI. Arrangement with instructor prior to registration. Readings in special topics.

HIS 4930 Special Topics in History (2-4) AS HTY
PR: History major status and 2.25 HTY major GPA required. An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war. Does not count for History major or minor credit.

HIS 4936 Pro-Seminar in History 6A MW (4) AS HTY
PR: History major status and 2.25 HTY major GPA required. Advanced topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section.

HFT 4853 Restaurant Trends and Challenges Seminar (3) US HRM
PR: Senior standing. Advanced level course focusing on contemporary management issues and challenges facing the foodservice and hospitality industries. Topic covered will be applicable to current trends applicable to a variety of situations.

HFT 4930 Special Topics in Hospitality (1-3) US HRM
PR: HFT 3005 Topics to be selected by instructor and department chairperson for pertinent Hospitality Management issues.

HFT 4936 Hotel Management Seminar (3) US HRM
PR: Senior standing. Advanced level course focusing on current problems and trends in hotel management and the hospitality industry.

HFT 4945 Advanced Internship (3) US HRM
PR: HFT 3005 Coordinated hospitality training combines practical experience with didactic academic analysis. Principles, theory and standard practices applied to operational situations. S/U only.

HLP 2081 Personal Wellness: A Lifetime Commitment (3) ED EDJ
An examination of the bases for adopting a positive health lifestyle and on major emphasis on diet, weight management, physical fitness, stress management, and substance-abuse management.

HLP 4722 Health and Physical Education for the Child (2) ED EDE
The course helps elementary education majors understand the health needs of K-children and to learn the role of the classroom teacher in providing health services, healthy environments, and health & physical ed. instruction.

HSA 4011 Introduction to Public Health (3) PH PHC
A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

HSC 2100 Contemporary Health Science SS (3) PH PHC
A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

HSC 2133 Sex, Health, and Decision-Making SS (3) PH CFH
This course will provide the student with an overview of the issues involving sexual behaviors, decision-making processes and health outcomes. The course will offer a public health perspective of the
consequences of risk-taking activities as well as a psychosocial and cultural variety of antecedent behaviors.

HSC 2400 First Aid (2) ED EDP
Meet the American Red Cross certification requirements in standard and advanced first aid.

HSC 3233 Selected Topics in Public Health (1-6) PH PHC
Overview of major public health and health related issues of interest to undergraduates. Course explores a variety of health topics that are related to improving the health and health behaviors of individuals, groups and communities. Specific topics may vary each semester. No prerequisites. Majors and non-majors. May be repeated for up to 6 credits.

HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child (3) ED EDP
Provide students with the knowledge to teach developmentally appropriate motor activities; to provide continuous health services; create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students.

HSC 3541 Human Structure and Function NS (3) PH CFH
This course is designed to introduce the structural levels of the body beginning with chemicals and progressing through cells, tissues, organs and systems with emphasis on homeostasis, stress and feedback systems. Not restricted to majors.

HSC 4001 Foundations of Global Health (3) PH PHC
This course introduces students to the principles of public health from a global perspective. Emphasis will be placed on the impact of social, economic, political and environmental factors that influence health and access to health care across the globe.

HSC 4134 Prevention of Mental Illness (3) PH PHC
This course introduces the contributions of prevention science and public health in impeding the development of mental disorders and the events that lead to mental disorders with the major developmental focus on childhood.

HSC 4172 Women’s Health: A Public Health Perspective (3) PH PHC
From a public health perspective, this course will explore the multidimensional and multidisciplinary dimensions of women’s health. The course will emphasize health promotion, disease prevention, and overall well-being.

HSC 4211 Health, Behavior and Society (3) PH PHC
This course focuses on an ecological perspective of the determinants of health including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, environment, policies and globalization.

HSC 4504 Foundations of Public Health Immunology (3) PH PHC
This course provides an overview of the principles of immunology and an introduction to the applications of immunology and immunologic techniques used in the surveillance, prevention and control of disease and public health importance.

HSC 4531 Medical Terminology NS (3) PH CFH
This course provides a unique educational program to improve the student’s medical vocabulary. The course includes medical and scientific concepts and terminologies, which can be used in other health professional courses. Not restricted to any major.

HSC 4554 Survey of Human Diseases (3) PH PHC
PR: Fund. of Biology with Lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.

HSC 4579 Foundations of Maternal and Child Health (3) PH PHC
This course provides an overview of maternal and child health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions for families and children.

HSC 4580 Foundations of Food Safety (3) PH PHC
This course provides an overview of food safety practices and principles emphasizing the role of the food handler. Topics include proper food handling procedures, food safety hazards, foodborne illness prevention, and food safety regulations.

HSC 4630 Understanding U.S. Health Care (3) PH PHC
An introduction to the health care system, including an overview of important components of the U.S. health care system, health policy, funding sources, and comparisons with other developed nations.

HSC 4631 Critical Issues in Public Health (3) PH PHC
This course provides students the opportunity to learn about the multiple ways to view controversial topics in public health. The course covers topics including biomedical issues, social & behavioral factors related to health issues.

HSC 4933 Special Topics in Public Health (1-6) PH PHC
PR: CI. Content will be governed by student demand and instructor interest.

HSC 5037 Professional Foundations of Health Education (1) PH CFH
The study of the practice of health education in various settings, and selected historical, cultural, philosophical, professional, and ethical issues in the practice of education.

HUM 1025 The Arts FA (3) AS HUM
Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.

HUM 1580 Introduction to Film Studies SS FA (4) AS HUM
Exploration of the history of creative filmmaking from its beginnings to the present time. Open to both majors and non-majors.

HUM 2120 Studies in Culture: The Classical Through Medieval Periods HP (3) AS HUM
A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.

HUM 2230 Studies in Culture: The Renaissance Through the Twentieth Century HP (3) AS HUM
A historical survey of the visual arts, literature, music and thought of Europe from the Renaissance through the Twentieth century. Issues to be examined may include the relationship between science and the arts and the consequences of the growing contacts among world civilizations and the impact of technological change.

HUM 2271 Eastern and Western Culture from Antiquity to 1400 AF (3) AS HUM
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe focused on India.

HUM 2273 Eastern and Western Culture Since 1400 AF (3) AS HUM
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from the Renaissance through the present, emphasizing Europe, the United States, and India.

HUM 2515, Introduction, the Cultural Study of Popular Music (3) AS HUM
An introduction to the cultural study of popular song, this class examines how music constructs racial, gender, and class identities and intersects with politics, globalization, and commerce. Variable topic, open to nonmajors, not repeatable for credit.

HUM 2930 Selected Topics (1-4) AS HUM
An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time).

HUM 3231 The Renaissance (3) AS HUM
PR: HUM 2210 or HUM 2230. An examination of the arts of the Renaissance, focusing on primary texts and images. Thematic include humanism, the revival of antiquity, the concept of the individual, the Reformation and Counter-Reformation, and the impact of New World explorations.

HUM 3237 The Seventeenth Century (3) AS HUM
PR: HUM 2210 or HUM 2230. An examination of the development of the art and culture of the Baroque Period, roughly the 17th Century, focusing on primary texts and images. Themes will include mysticism, sensuality, rationalism, science, absolutism, and liberty.

HUM 3240 The Early Middle Ages (3) AS HUM
PR: HUM 2210 or HUM 2230. This course examines the diverse cultures of Europe from the fourth to eleventh centuries. Major issues include the formation of religious cultures, modes of cultural contact, relationships between texts and images, and uses of earlier traditions.

HUM 3241 Central Medieval and Gothic Europe (3) AS HUM
PR: HUM 2210 or HUM 2230. By studying texts and artifacts, this course examines the diverse cultures of Europe from the eleventh to fourteenth centuries. A central issue covered will be the efforts of the church to create an all-encompassing Christian culture.

HUM 3242 The Enlightenment (3) AS HUM
PR: HUM 2210 or HUM 2230. By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.

HUM 3244 Nineteenth-Century Arts and Letters (3) AS HUM
PR: HUM 2210 or HUM 2230. By studying 19th century literature, music, and visual art, this course examines phenomena such as the rise of capitalism, colonial expansion, nationalism, urbanism,
The course addresses issues of social science or natural science.

IDS 2931 Selected Topics (1-5) AS IAS
Selected topics in liberal arts and sciences. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

IDS 2932 Selected Topics HP (3) AS IAS
Selected topics in the liberal arts and sciences.

IDS 2933 Selected Topics III SS (3) AS IAS
Selected topics in the Liberal Arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

IDS 2934 Selected Topics IV SS (3) AS IAS
Selected topics in the Liberal Arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

IDS 3115 Values and Choices 6A MW (3) ED EDF
An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

IDS 3186 Scientific and Ethical Dimensions of Human Disease MW (3) AS IAS
An interdisciplinary perspective of the biological basis of human disease combined with critical thinking and medical ethics. Basic concepts of human disease are integrated with bioethical dimensions of patient choice, physician responsibility and current health care issues.

IDS 3662 Arts Connections FA (3) VP FAI
This is an interdisciplinary course to the arts disciplines of music, dance, theatre, and art. Artists from the four disciplines will provide weekly presentations centered around ideas and issues that have formed the basis of their creative research. Influences of diversity, new technologies and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting underlying values and paradigms that form our culture(s).

IDS 3663 Critical Issues Affecting the Arts 6A MW (3) VP FAI
PR: Junior standing or CI. A discussion-based examination of cultural policies, economic factors, historical and financial factors which impact Art, Dance, Music, and Theatre.

IDS 3668 Images of Contemporary Urban Culture 6A LW (3) AS IAS
Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.

IDS 3949 Cooperative Education, Parallel (0-2) US COE
PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Part-time (10-25 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program. S/U Only.

IDS 4910 Undergraduate Research (1-4) HC HON
PR: DPR. An interdisciplinary approach to the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place.

IDS 4910 Community Research (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community related research experience.

IDS 4942 Community Internship (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community internship experience.

IDS 2664 Historical Perspectives I HP (3) AS IAS
Approaches the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place. With this understanding, students will produce several of their own histories.

IDS 2931 Selected Topics (1-5) AS IAS
Selected topics in liberal arts and sciences. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

IDS 2932 Selected Topics HP (3) AS IAS
Selected topics in the liberal arts and sciences.

IDS 2933 Selected Topics III SS (3) AS IAS
Selected topics in the Liberal Arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

IDS 2934 Selected Topics IV SS (3) AS IAS
Selected topics in the Liberal Arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences.

IDS 3115 Values and Choices 6A MW (3) ED EDF
An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

IDS 3186 Scientific and Ethical Dimensions of Human Disease MW (3) AS IAS
An interdisciplinary perspective of the biological basis of human disease combined with critical thinking and medical ethics. Basic concepts of human disease are integrated with bioethical dimensions of patient choice, physician responsibility and current health care issues.

IDS 3662 Arts Connections FA (3) VP FAI
This is an interdisciplinary course to the arts disciplines of music, dance, theatre, and art. Artists from the four disciplines will provide weekly presentations centered around ideas and issues that have formed the basis of their creative research. Influences of diversity, new technologies and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting underlying values and paradigms that form our culture(s).

IDS 3663 Critical Issues Affecting the Arts 6A MW (3) VP FAI
PR: Junior standing or CI. A discussion-based examination of cultural policies, economic factors, historical and financial factors which impact Art, Dance, Music, and Theatre.

IDS 3668 Images of Contemporary Urban Culture 6A LW (3) AS IAS
Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.

IDS 3949 Cooperative Education, Parallel (0-2) US COE
PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Part-time (10-25 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program. S/U Only.

IDS 4910 Undergraduate Research (1-4) HC HON
PR: DPR. An interdisciplinary approach to the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place.

IDS 4910 Community Research (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community related research experience.

IDS 4942 Community Internship (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community internship experience.
Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and the Co-Operative Education Program.

IDS 4955 International Community Research (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with an international community research experience.

IDS 4956 International Community Internship (1-4) AS CEL
PR: CEL Program approval. To provide students with an international community internship experience. Repeatable up to 8 credit hours.

IDS 5176 Problems in Museum Studies (3) VP ART
PR: Art Advisor’s Approval This class is designed as both an academic and theoretical course to introduce students to the museum profession and develop critical thinking skills required to solve problems in the rapidly changing typography of museums. Students will develop managerial and administrative skills as they meet with and discuss the job descriptions of curators, educators, collection managers, marketing professionals, exhibit designers, registrars, and fundraisers.

INP 2101 Applied Psychology SS (3) AS PSY
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical service.

INP 4004 Industrial Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, stress, decision-making.

INR 1015 World Perspective SS AF (3) AS INT
An interdisciplinary study of the international system, major world regions, and problems.

INR 2002 Introduction to International Relations (3) AS POL
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

INR 3003 Introduction to International Studies (3) AS INT
An interdisciplinary study which stresses methods and analysis. A major portion will focus on the roles which different disciplines play in interpreting the international scene.

INR 3011 Globalization (3) AS INT
Influence of globalization on political-economic and social systems around the world. International organizations involved with globalization processes are studied along with nations benefiting and suffering from the consequences of globalization.

INR 3018 World Ideologies MW (3) AS INT
A course which details and examines the ideologies of today’s independent countries; analyzing them in their political, social, cultural and historical context.

INR 3033 International Political Cultures MW (3) AS INT
This course will explore ways in which culture influences the nature of government, economics, industry, politics, and international relations.

INR 3038 International Wealth and Power SS (3) AS INT
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

INR 3081 International Issues and Actors (3) AS INT
Departmental approval required. For majors and minors in INT only. An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations.

INR 3084 International Terrorism SS AF (3) AS INT
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

INR 3102 American Foreign Policy (3) AS POL
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

INR 3141 Global Security Policy (3) AS INT
A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.

INR 3202 International Human Rights MW (3) AS INT
This courses explores the evolution of international rights from the Greeks to the present. It examines human rights issues in major regions of the world.

INR 3336 Intelligence and U.S. Foreign Policy (3) AS INT
An examination of U.S. intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

INR 3555 Overseas Study (1-6) AS INT
A program of individual or group research in a foreign country.

INR 4035 International Political Economy (3) AS POL
Analysis of the development and policies of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4083 Conflict In The World MW (3) AS INT
PR: Junior/Senior standing. An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, theories and peacemaking strategies, and the concept of Early Warning Systems related to the outbreak of conflict.

INR 4254 Africa in World Affairs MW (3) AS INT
An examination of Africa’s place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.

INR 4403 International Law SS (3) AS POL
Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.

INR 4502 International Relations SS AF (3) AS POL
Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.

INR 4507 Directed Research (1-3) AS INT
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

INR 4910 Directed Research (1-3) AS INT
PR: CI. A supervised program of interdisciplinary research in areas of specific interest.

INR 4931 Selected Topics (1-4) AS INT
Interdisciplinary studies with course content dependent on student demand and instructor’s interest.

INR 4936 Senior Seminar MW (3) AS INT
PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student’s final semester.

INR 4943 Internship in International Studies (3-6) AS INT
PR: Senior status, S/U only. For majors only. The purpose of the course is to promote the student’s understanding of global international issues within a local and practical context.

INR 5012 Globalization (3) AS INT
Examination of globalization’s impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that impacts the student of the nation-state system and power. Open to majors and non-majors.

INR 4996 Directed Research SS (3) AS INT
PR: Jr./Sr./GS. Explores specific topics and provides the student with an opportunity for an in-dept study of historical and contemporary problems in international politics.

ISC 1004 Integrated Natural Sciences I: Science that Matters NS (3) AS IDS
Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

ISC 1005 Integrated Natural Sciences II: Science that Matters NS (3) AS IDS
Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

ISM 3051 Information in Organizations (3) BA QMB
PR: CGS 2100 or equivalent. An introduction to the language, concepts, structures and processes involved in the management of information systems including fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

ISM 3113 Systems Analysis and Design (3) BA QMB
PR: ISM 3011 with a grade of “C” or better (not C-). The course presents concepts, procedures, and tools needed to build computer-based information systems. The objective is to develop project
management, data collection, analysis, design, testing and maintenance of information systems.

ISM 3232 Business Application Development (3) BA QMB
CP: ISM 3011 with a grade of "C" or better (not C-). Presentation of business application development using an object-oriented programming language. Good procedural design techniques are emphasized. Business applications are developed.

ISM 3431 Management Science Production/Operations Management Applications (3) BA QMB
PR: MAC 2233 and ISM 2241. Fundamentals of production operations management (POM) and fundamentals of management science (MS). The application of MS models in the solution of POM problems.

ISM 4133 Advanced Systems Analysis and Design (3) BA QMB
PR: ISM 4212 with a grade of "C" or better (not C-). This course builds previous class and/or work experience in systems development, with particular emphasis on the use of an integrated CASE tool on a team project. Students will gain an understanding of systems development problems and approaches using a variety of methods, such as, lectures, discussion, team presentations, guest speakers, demonstrations and computer use.

ISM 4141 Web Application Development/Java (3) BA QMB
PR: ISM 3232 with a grade of "C" or better (not C-). Java will be used to introduce object oriented concepts. Programming assignments cover a variety of application features including graphical user interface, database connectivity, multitreading, & client-server applications. Java and Java Server Pages (JSP).

ISM 4212 Database Design and Administration (3) BA QMB
PR: ISM 3113 with a grade of "C" or better (not C-). An introduction to the concepts and principles of database management. Provides practical experience with users and managers of database systems with an understanding of physical vs. logical representations, data modeling, implementation, and data management.

ISM 4213 Advanced Database Administration (3) BA QMB
PR: ISM 3113 or ISM 4212 with grades of "C" or better (not C-). Essential concepts of database administration in a business environment are covered in order to prepare students to understand and deal with database administration issues and concepts. Students gain hands-on experience by administering a database environment and completing assignments that involve resource management, data administration, security, backup, recovery and database tuning issues.

ISM 4220 Business Data Communications (3) BA QMB
PR: ISM 3011 with a grade of "C" or better (not C-). Fundamentals of data communication, including network architectures, communication protocols, transmission standards, and internetworking. Basic concepts in distributed computing will also be covered.

ISM 4233 Information System Interface Design (3) BA QMB
PR: ISM 3232 with a grade of "C" or better (not C-). An introduction to theories of human-computer interaction and the principles and practices of information system interface design, evaluation, and integration. Students develop programs utilizing various user interface design techniques.

ISM 4234 Object-Oriented Design and Development (3) BA QMB
PR: ISM 3232 with a grade of "C" or better (not C-). This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects.

ISM 4240 Distributed Operating Systems (3) BA QMB
PR: ISM 3113 with a grade of "C" or better (not C-). Introduction to distributed operating systems fundamentals such as distributed systems architecture, file structures, client-server, open systems, resource allocation, and basic tools for manipulating these operating environments.

ISM 4290 Senior Seminar in Information Systems (3) BA QMB
PR: ISM 4212 with a grade of "C" or better (not C-). A seminar covering advanced topics in systems management, analysis and design. Applications of these procedures to actual or hypothetical cases.

ISM 4300 Managing Information Resources (3) BA QMB
PR: ISM 4212 and ISM 4220, with grades of "C" or better (not C-). Current issues in information systems management focusing on managing computer resources and social issues such as ethics, privacy, and legal issues including intellectual property.

ISM 4362 Global Information Systems (3) BA QMB
PR: ISM 3011 with a grade of "C" or better (not C-). Role of information technology in global business organizations and challenges in building information systems to enable global operations.

ISM 4400 Decision Support Systems (3) BA QMB
PR: QMB 3200, ISM 3011, with a grade of "C" or better (not C-). Study of quantitative analysis tools and their use in organizational decision making. Emphasis on a structured approach to making common business decisions, demonstrating several forms of mathematical modeling and its business management science techniques.

ISM 4480 Electronic Commerce Systems (3) BA QMB
PR: ISM 3011 with a grade of "C" or better (not C-). MIS major or CC. Familiarize students with the opportunities and challenges associated with e-commerce and its business models, to explore the underlying technologies used in implementing e-commerce systems, and to develop the skills needed to manage effective Web sites.

ISM 4905 Independent Study (1-6) BA QMB
S/U only. Independent study as directed by designated faculty.

ISM 4930 Selected Topics in MIS (1-3) BA QMB
Selected topics in MIS.

ISM 4950 Independent Research (1-6) BA QMB
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

ISS 1101 Knowledge and Society SS (3) AS ISS
Course introduces students to issues concerning the relationship between knowledge and society. Among the issues addressed are competing accounts of knowledge and the relationship between knowledge and other forms of human experience and different aspects of social life such as religion, morality, aesthetics, politics, and gender.

ISS 1102 Self and Society SS (3) AS ISS
Course introduces students to issues concerning the relationship between the self (or individual) and society. Among the topics that may be addressed are the idea of human nature, how human nature is shaped by social and cultural factors; the moral obligations between individuals and society; and how our understanding of the self is shaped by gender and culture.

ISS 1103 Nature and Culture SS (3) AS ISS
Course examines competing ideas and theories concerning the relationship between nature and culture. Among the issues and questions examined are the relationship between nature and our awareness of it; to what extent is nature transformable; should "nature" dictate the shape of social institutions; how does technology affect our society and environment.

ISS 3010 Introduction to the Social Sciences (3) AS ISS
Integrates the range of social science fields into a global interdisciplinary perspective. Views social institutions and issues from perspectives of changing paradigms.

ISS 3930 Selected Topics in the Social Sciences (1-4) AS ISS
Interdisciplinary studies of varying topics, with course content dependent on student demand and instructor’s interest.

ISS 4151 Native American Women (3) AS ISS
An interdisciplinary examination of lives of Native American Women, past and present. Topics include history, education, indigenous techniques.

ISS 4900 Directed Readings (1-3) AS ISS
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

ISS 4910 Directed Research (1-3) AS ISS
PR: CI. A supervised program of interdisciplinary research in areas of specific interest.

ISS 4935 Seminar in the Social Sciences MW (3) AS ISS
PR: Senior standing and ISS 3010 or CI. The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of theoretical models to research on salient social issues.

ISS 5934 Selected Topics (1-3) AS AFA
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest.

ITA 1121 Beginning Italian I (4) AS WLE
CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehensiveness, speaking, and reading.

ITA 1120 Beginning Italian Laboratory I (1) AS WLE
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media.

ITA 1121 Beginning Italian II (4) AS WLE
CR: ITA 1120L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehensiveness, speaking and reading.

ITA 1121L Beginning Italian II Laboratory (1) AS WLE
CR: ITA 1121. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously.
A laboratory designed to offer additional practice using various communication tools and media.

ITALIAN (ITALIAN) 3 (AS WLE)
PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

ITALIAN (ITALIAN) 3 (AS WLE)
PR: ITA 2200. This course marks the fourth level in the acquisition of Italian language. It continues to encourage students to speak, listen, read, and write in the target language through frequent communicative activities.

ITALIAN CONVERSATION I (ITALIAN) 3 (AS WLE)
PR: ITA 2200 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION II (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION III (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION IV (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION V (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION VI (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION VII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION VIII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION IX (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION X (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XI (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XIII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XIV (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XV (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XVI (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XVII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XVIII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XIX (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XX (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXI (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXIII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXIV (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXV (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXVI (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXVII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXVIII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXIX (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXX (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXXI (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITALIAN CONVERSATION XXXII (ITALIAN) 3 (AS WLE)
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student's knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.
JPN 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.

JPN 4930 Selected Topics (1-5) AS WLE
Departmental approval required. Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion.

LAE 4314 Teaching Writing in the Elementary School, Grades K-6 (3) ED EDE
This course is for students to understand children's writing development and to design and implement instructional strategies for teaching language arts in the elementary school. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

LAE 4323 Methods of Teaching English: Middle School (3) ED EDT
Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.

LAE 4435 Methods of Teaching English: High School: Grades K-6 (3) ED EDT
PR: LAE 4464. Must be taken one semester prior to internship concurrently with LAE 4530. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking into a literature-based program for high school students.

LAE 4441 Teaching Literature in the Elementary School, Grades K-6 6A LW (3) ED EDE
Pr: Elementary Education majors or CL. The purpose of this course is for students to understand children's writing development and to design and implement instructional strategies for teaching language arts in the elementary school. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

LAE 4464 Adolescent Literature for Middle and Secondary Students 6A LW (3) ED EDT
PR: English Education majors or CI. Recommended to be taken with LAE 4323 two semesters prior to internship. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 4465 Teaching World Literature to Middle and Secondary Students (3) ED EDT
World literature encompasses more than Western European literature. This course is designed to emphasize, but is not limited to, a study of Eastern literature. This course fulfills the world literature course requirement for teacher certification in English.

LAE 4503 Methods of Teaching English: Practicum (3) ED EDE

LAE 4936 Senior Seminar in English Education (2) ED PR: Senior standing. Required concurrently with internship.

LAE 4940 Internship: English Education (1-12) ED EDT
S/U only. One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from the time of registration.

LAE 5462 Young Adult and World Literature for New Teachers (3) ED EDI
PR: Teaching position whether English degree or 30 hrs of Undergraduate English A study of the types of literature read by adolescents, including literature representative of other cultures, with emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 5842 Classroom Communication in English Education (3) ED EDE
Identifies characteristics of classroom communication environment; offers insights, info, instructional strategies designed to help you become effective classroom communication for managers. Emphasis on role of media & non-print texts in students' lives.

LAE 5932 Selected Topics in the Teaching of English (3) ED EDT
PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.

LAH 2020 Latin American Civilization HP AF (3) AS HTY
An introduction to selected issues, events, and people in Latin American history from 1492 to the present. Focus on Argentina, Brazil, Chile, Cuba, and Mexico. Intended for students in any discipline; no prerequisites. An entry-level course for Latin American studies.

LAH 2733 Latin American History in Film HP AF (3) AS HTY
Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

LAH 3130 Colonial Latin America (4) AS HTY
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 Modern Latin America (4) AS HTY
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 History of Mexico (4) AS HTY
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 History of the Caribbean (4) AS HTY
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, orientation society, and colonial/neo-colonial relationships.

LAH 3480 History of Cuba (4) AS HTY
Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.

LAS 3002 Latin America (3) AS INT
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

LAS 3004 The Americas - Latin and Caribbean (3) AS INT
This is a telecourse that is designed to introduce the complexities of Latin America and the Caribbean to students in the U.S. (Open University - telecourse.)

LAS 3116 Latin America Through Film AF (3) AS INT
This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.

LAS 3934 Selected Topics: Latin American Studies (3-9) AS INT
Latin America region will be analyzed through different specific topics to provide students analytical tools to understand hemispheric relations and the relevance of this complex region for the USA. Open to non-majors; repeatable up to 9 credits.

LAS 4900 Internship in Latin America and the Caribbean (1-9) AS INT
PR: CI. Designed to complement other instruction focused on Latin America and the Caribbean. Open to all majors and is repeatable up to 9 hours.

LAT 1120 Beginning Latin I (4) AS WLE
An introductory course in Latin grammar with appropriate readings.

LAT 1121 Beginning Latin II (4) AS WLE
PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.

LAT 2221 Intermediate Latin II (4) AS WLE
PR: LAT 2220. This class will introduce students to their first Latin author, and to the techniques and skills of intermediate work in Latin. It will also provide a comprehensive review of Latin Grammar. It is not restricted to majors, and not repeatable for credit.

LIN 2002 Language, Culture and Film AF (3) AS WLE
Offers initial exposure to foreign languages and cultures. Through lecture, demonstration, discussion, and the viewing of full-length feature films, students are introduced to a variety of prominent modern and ancient languages and cultures.
LIN 3010 Introduction to Linguistics (3) AS WLE
Introduction to the basic principles of linguistics science; phonological and grammatical analysis and description; language change and genetic relationships.

LIN 3670 English Grammar and Usage (3) AS ENG
A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not be counted toward the English major.

LIN 3801 Language and Meaning 6A (3) AS WLE
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF-TV Channel 16 by the O.U. Program.

LIN 4040 Descriptive Linguistics (3) AS WLE
PR: LIN 3010 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 analysis and descriptions will be developed and compared.

LIN 4575 Language Types of the World (1) AS WLE
LIN 4600 Language and Society (3) AS WLE
PR: LIN 3010. 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 cultural groups. Problems in communication between strata.

LIN 4671 Traditional English Grammar (3) AS ENG
A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.

LIN 4680 Structure of American English (3) AS ENG
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.

LIN 4710 Language and Communication: Acquisition and Development (3) AS WLE
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. the acquisition and development of phonology, syntax, semantics, pragmatics, and nonverbal communication and the role of language in general cognitive development.

LIN 4903 Directed Reading (1-3) AS WLE
PR: CI. Readings in special topics.

LIN 4930 Selected Topics (1-3) AS WLE
PR: CI. Course content depends upon students’ needs and instructor’s interest and may change from one year to the next. Will not be counted toward the English major.

LIN 5700 Applied Linguistics (3) AS WLE
Analysis of the phonological, morphological, and syntactic features of English as a basis for linguistic application to problems of the acquisition of English by native speakers.

LIS 2004 Library and Internet Research Skills (3) AS LIS
An introduction to information research skills as they apply to using both academic libraries and the Internet. Assignments will focus on developing skills to locate, evaluate, and use sources of information.

LIS 2937 Selected Topics in Library/Information Science (1-3) AS LIS
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 3301 World Wide Web Page Design and Management (3) AS LIS

LIS 4004 Selected Topics in Information Studies (3) AS LIS
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 5000 Foundations of Library and Information Science (3) AS LIS
Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 5268 Microcomputer Applications Library and Information Centers (3) AS LIS
Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.

LIS 5315 Instructional Graphics (3) AS LIS
Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV in Schools and Libraries (3) AS LIS
Small format video tape recordings and the utilization of open and closed broadcasts in libraries and the schools.

LIS 5937 Selected Topics in Library Studies (1-4) AS LIS
Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

LIT 2010 Introduction to Literature 6A HP (3) AS ENG
The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for informed enjoyment. Will not be counted toward the English major.

LIT 2010 Introduction to Fiction 6A HP (3) AS ENG
A study of the short story and novel as literary forms; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

LIT 2030 Introduction to Poetry 6A HP (3) AS ENG
A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not be counted toward the English major.

LIT 2040 Introduction to Drama 6A HP (3) AS ENG
A study of the major forms of drama as literature and theatre; approached from a historical perspective though not restricted to any historical period. Will not be counted toward the English major.

LIT 3022 Modern Short Prose HP (3) AS ENG
PR: ENC 110 and ENC 1102. This course for English majors and minors explores modern short prose in World, British, and American literatures; genres include the short story, the short short story, the short novel, and the essay. Not repeatable.

LIT 3031 Survey of Poetry (3) AS ENG
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the Poetry Option.

LIT 3043 Modern Drama (3) AS ENG
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

LIT 3093 Contemporary Literature (3) AS ENG
An introduction to the fiction, poetry, and drama written since 1945—American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

LIT 3101 Literature of the Western World Through the Renaissance 6A (3) AS ENG
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

LIT 3102 Literature of the Western World Since the Renaissance 6A (3) AS ENG
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sarthe, and Camus, among others.

LIT 3103 Great Literature of the World 6A MW LW (3) AS ENG
A survey of world literature including samples from the ancient and modern era, western and eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity, and gender; thinking and writing skills. Will not be counted toward the English major.

LIT 3144 Modern European Novel 6A HP (3) AS ENG
A study of the Modern European novel in translation as it developed from the nineteeth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

LIT 3155 Modern Literature 6A HP MW LW (3) AS ENG
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the Poetry Option.

LIT 3301 Cultural Studies and the Popular Arts 6A MW LW (3) AS ENG
A study of twentieth century culture as it is represented in the film, fiction, and other cultural artifacts of many different nationalities.
Focuses on values/ethics, race, ethnicity and gender, thinking and
writing skills. Will not be counted toward the English major.

LIT 3374 The Bible As Literature MW (3) AS ENG
Major emphasis on literary types, literary personalities of the Old
and New Testaments, and Biblical archetypes of British and
American literature. Fall Semester, Old Testament; Spring
Semester, New Testament. Focuses on values/ethics, race,
ethnicity and gender; thinking and writing skills. May be taken
twice for credit with different topics. May be counted once
toward the English major.

LIT 3383 The Image of Women in Literature LW (3) AS ENG
A study that seeks to trace the origins of contemporary views
about women, to analyze major Eastern/Western literary portrayals
of women, to examine ideas about women’s roles, and to compare/
contrast cultural/racial images of women. Will not be counted
toward the English major.

LIT 3410 Religious and Philosophical Themes (3) AS ENG
Theological and philosophical ideas, allusions, and symbols in
the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus,
Sartre, among others.

LIT 3451 Literature and the Occult 6A MW LW (3) AS ENG
An introduction to the occult tradition as a major ingredient in
English, Continental, American, and Multicultural literature; analysis
of the origins, classifications, and areas of the various magic arts
from the classical to the modern. It will examine through the
lens of values/ethics, race/ethnicity and gender; thinking and writing
skills. Will not be counted toward the English major.

LIT 3930 Special Topics in English Studies (3) AS ENG
The study of specialized areas of literary interest, suitable
for junior and senior English majors. Topics will vary according
to student interest and instructor expertise. May be taken twice
for credit with different topics.

LIT 4386 British and American Literature by Women 6A MW LW
(3) AS ENG
Survey of women’s literary tradition in England and America from
the seventeenth century to the present. Thematic focus includes
self, marriage,, charity, madness, race and generations. Writing
intensive. Will not be counted toward the English major.

LIT 4463 Film and Culture 6A LW (3) AS ENG
Exploration of the history of creative filmmaking from its beginnings
to the present time. Open to both majors and non-majors.

LIT 4804 Literature as Cultural Study MW (3) AS ENG
The study of literary texts as cultural artifacts. Literary texts as
historical, social, political, psychological, philosophical, religious,
etc. documents. Topics and works vary. Will not be counted
toward the English major.

LIT 4900 Selected Topics in English Studies (1-4) AS ENG
The content of the course will be governed by student demand and
instructor interest. 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 taken twice for credit
with different topics.

LIT 5900 Directed Reading (1-4) AS WLE
Study of an author, movement, or theme.

LIT 5934 Selected Topics (4) AS WLE
Study of an author, movement, or theme.

MAA 4211 Intermediate Analysis I 6A (4) AS MTH
PR: MAC 2313 and MAS 3105. Sequences, series, metric spaces,
continuity, differentiation.

MAA 4212 Intermediate Analysis II 6A (3) AS MTH
PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence,
related topics.

MAA 4402 Complex Variables 6A (3) AS MTH
PR: MAP 2302 or CI. No credit for students with credit in MAA 5405.
Complex numbers, Cauchy-Riemann equations, analytic and
conformal functions, power series, Cauchy Theorem, Cauchy
Integral Formula, residue theory.

MAA 5306 Real Analysis I (3) AS MTH
PR: MAA 4211. Riemann-Stieltjes integrals, uniform convergence,
related topics.

MAA 5307 Real Analysis II (3) AS MTH
PR: MAA 5306. Metric spaces, Banach spaces, and function spaces;
measure and integration on abstract spaces.

MCS 1105 College Algebra 6A QM (3) AS MTH
PR: C (2.0) or better in MAT 1033, or 490 or better SAT Math score,
or 21 or better ACT Math score, or 90 or better Elementary Algebra
CPT score, or 40 or better College-Level Math CPT score. No credit
for students with prior credit for either MAC 1140 or MAC 1141.
Concepts of the real number system, functions, graphs, and complex
numbers. Analytic skills for solving linear, quadratic, polynomial,
exponential, and logarithmic equations. Mathematical modeling of
real-world applications. College Algebra may be taken either for
General Education credit or as preparation for a pre-calculus
course.

MAC 1144 Precalculus Trigonometry 6A (2) AS MTH
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score,
or 24 or better ACT Math Course. CP: MAC 1140. Angles, trigonometric
functions, properties and graphs of trigonometric functions, right
triangles, laws of sines and cosines, polar coordinates.

MAC 1145 Precalculus Algebra 6A QM (3) AS MTH
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score,
or 24 or better ACT Math Course. CP: MAC 1144. Review of
functions and graphs. Analytic geometry including conic sections
and rotation of axes, systems of equations including matrix algebra
and determinants, sequences and series including Binomial
Theorem.

MAC 1147 Precalculus Algebra and Trigonometry 6A QM (4)
(3) AS MTH
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math score,
or 24 or better ACT Math score, or 60 or better College-Level Math
Course. No credit for students with credit for either MAC 1140
or MAC 1114. This is an accelerated combination of MAC 1140 and
MAC 1114; this course is best for students who have already seen
some trigonometry. See the descriptions of MAC 1140 and MAC
1114.

MAC 2233 Business Calculus 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 1105, or C (2.0) or better in MAC 1140,
or 26 or better ACT Math score, or 78 or better College-Level Math
CPT score. No credit for Mathematics majors or students with
credit for either MAC 2241, MAC 2281, or MAC 2311. Linear
equations and functions, mathematics of finance, differentiation
and integration of algebraic, exponential and logarithmic functions
with applications to business, finance and economics.

MAC 2241 Life Sciences Calculus I 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 1114, or C (2.0) or better in MAC 1147,
or 26 or better SAT Math score, or 90 or better College-Level Math
CPT score. No credit for Mathematics majors or students with
credit for either MAC 2241, MAC 2281, or MAC 2311. Linear
equations and functions, mathematics of finance, differentiation
and integration of algebraic, exponential and logarithmic functions
with applications to life sciences.

MAC 2242 Life Sciences Calculus II 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 2241. No credit for Mathematics majors
or students with credit in MAC 2282 or MAC 2322. Techniques of
integration, differential equations, functions of several variables,
series and Taylor polynomials.

MAC 2281 Engineering Calculus I 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140,
or C (2.0) or better in MAC 1147, or 650 or better SAT Math score,
or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometric functions. No credit for mathematics majors or for students with credit in MAC 2233, MAC 2242, or MAC 2311. Differentiation, limits, differentials, extremes, indefinite integral. No credit for mathematics majors or for students with credit in MAC 2233 or MAC 2243 or MAC 2311.

MAC 2282 Engineering Calculus II 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 2281. No credit for students with credit in MAC 2242 or MAC 2312. Definite integral, trigonometric functions, logarithms, exponentials, applications.

MAC 2283 Engineering Calculus III 6A (4) AS MTH
PR: C (2.0) or better in MAC 2282 or CC. No credit for students with credit in MAC 2313. Techniques of integration, numerical methods, series, and an introduction to vector geometry, polar coordinates, and elementary linear algebra, applications.

MAC 3111 Calculus I 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. No credit for students with credit in MAC 2233, MAC 2241, or MAC 2281. Differentiation, limits, differentials, extremes, indefinite integral. No credit for students with credit in MAC 2233 or MAC 2243 or MAC 2311.

MAC 3122 Calculus II 6A QM (4) AS MTH
PR: C (2.0) or better in MAC 2311 or CC. No credit for students with credit in MAC 2242 or MAC 2282. Antiderivatives, the definite integral, applications, series, log, exponential, and trig functions.

MAC 3131 Calculus III 6A (4) AS MTH
PR: C (2.0) or better in MAC 2312 or CC. No credit for students with credit in MAC 2283. Integration, polar coordinates, conic sections, sequences, and series, indeterminate forms and improper integrals.

MAD 3100 Discrete Mathematics 6A (3) AS MTH
PR: MAC 2281 or MAC 2311. No credit for Mathematics majors. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

MAD 4401 Numerical Analysis 6A (3) AS MTH
PR: MAP 2302 and MAS 3105. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

MAD 4504 Theory of Computation 6A (3) AS MTH

MAN 3025 Principles of Management (3) BA MAN
PR: Junior standing. Examines intrapersonal, interpersonal, group/ team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

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

MAN 3301 Human Resource Management (3) BA MAN
PR: C (2.0) or better in MAC 2281 or CC. No credit for Mathematics majors. Groups, fields, vector spaces as they relate to high school and geometry.

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

MAN 4129 Theory and Practice of Management Skills (3) BA MAN
This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

MAN 4280 Organizational Development and Change (3) BA MAN
PR: MAN 3240 or CI. A lab course where students experimentally apply behavioral science techniques in an “action-research” framework to the cycle of planned change so as to build a more effective organization.

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

MAN 4402 Employment Laws (3) BA MAN
Federal and state regulation of the employment relationship, including wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining legislation.
MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (BA) MAN
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4504 Operations Management: A Systems Approach (BA) QMB
PR: ISM 3431 or equivalent. Studies the problems of “operations” in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

MAN 4507 Operation Production Systems (BA) QMB
PR: MAN 4504 or CI. Study of closed loop production planning and control systems. Master production planning, inventory management, materials requirements planning, capacity, management, production activity. Relationship to organizational effectiveness.

MAN 4600 International Management (BA) MAN
PR: MAN 3025, Senior Standing or CI. Examines the effects of international cultural differences on business practices within and outside the United States and provides methods to build synergies and establish/enhance competitive advantage via those differences.

MAN 4702 Disaster Recovery and Business Continuity Planning (3) SIT
PR: Electives may be taken at any time after completion of the first semester. When organizations are interrupted by disasters, accidents, or natural events, a loss of money, data, and/or productivity occurs. The extent to which the loss affects the organization’s health depends on its ability to deal with these disruptions.

MAN 4802 Entrepreneurship and Small Business Management (BA) MAN
PR: ACG 2021, ACG 2071, MAR 3023, or CI. Study of the factors involved in starting and managing a small-to-medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

MAN 4804 Small Business Management Counseling (BA) MAN
PR: MAN 4802 or CI. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4905 Independent Study (1-3) BA MAN
PR: CI. S/U only. Specialized independent study determined by the students needs and interests.

MAN 4930 Selected Topics in Management (1-3) BA MAN
Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 Independent Research (1-4) BA MAN
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAP 2302 Differential Equations 6A (3) AS MTH
PR: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.

MAP 3516 Ordinary Differential Equations I (3) AS MTH
PR: MAP 2302 and MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.

MAP 3517 Ordinary Differential Equations II (3) AS MTH
PR: MAP 3516 and MAA 5307 or CI. Topics selected from fixed point theory, comparision theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAP 3545 Applied Partial Differential Equations (3) AS MTH
PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace’s equation, classification, Green’s functions with emphasis on applications.

MAP 5407 Methods of Applied Mathematics (3) AS MTH

MAR 2931 Selected Topics in Marketing (1-4) BA MKT
Topics to be selected by the College of Business. Topics to be selected by department chairperson.

MAR 3023 Basic Marketing (3) BA MKT
PR: Junior standing. Surveys the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

MAR 3400 Professional Selling (3) BA MKT
PR: MAR 3023 or CI. A study of the stages of the professional selling process, and the role of sales in today’s marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills.

MAR 3613 Marketing Research (3) BA MKT
PR: QMB 2100, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3823 Marketing Management (3) BA MKT
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

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

MAR 4213 Logistics and Physical Distribution Management (3) BA MKT
PR: MAR 3023 or CI. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution systems. Emphasis on the influence of information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

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

MAR 4333 Promotion Management (3) BA MKT
PR: MAR 3023 or CI. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. Decision making process in development of a promotional program is emphasized.

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

MAR 4533 Business to Business (BA) MKT
PR: MAR 3023. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

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

MAR 4524 Marketing Management Problems (3) BA MKT
PR: Senior Standing, MAR 3823, MAR 3613, MAR 4333. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other functional areas of the business. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills.

MAR 4903 Independent Research (1-3) BA MKT
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the students’ needs and interests.

MAR 4933 Selected Topics in Marketing (1-3) BA MKT
Topics to be selected by instructor and department chairperson.

MAS 1100 Constructive Number Theory and Linear Algebra (2) US DE A
PR: Acceptance in USF-Hillsborough County Mathematics and Science Program. Computational and constructive aspects of
number theory. Topics include: properties of integers, Diophantine Equations, congruence, quadratic residues polynomials over the integers, systems of linear equations, matrices and determinants.

**MAS 3105 Linear Algebra 6A (4) AS MTH**
CP: MGF 3301 and either MAC 2283 or MAC 2313. Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.

**MAS 4156 Vector Calculus 6A (4) AS MTH**
PR: MAS 3105 and either MAC 2313 or MAC 2283. Implicit function and inverse function theorems, parameterized surfaces, submanifolds on Euclidean space, exterior calculus of differential forms, differential of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

**MAS 4214 Elementary Number Theory 6A (3) AS MTH**
PR: MAC 2312. No credit towards Mathematics major. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruencies, number functions and other selected topics.

**MAS 4301 Elementary Abstract Algebra 6A (3) AS MTH**
PR: MAS 3105. An introduction to the basic algebraic structures; groups, rings, integral domains, and fields; homomorphisms and isomorphisms.

**MAS 5107 Advanced Linear Algebra (3) AS MTH**

**MAS 5216 Number Theory (3) AS MTH**
PR: MAS 3105 and MAS 4301, or CI. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudo primes, primitive roots, law of quadratic reciprocity, factorization, and primality testing algorithms.

**MAS 5311 Algebra I (3) AS MTH**
PR: MAS 3105 and MAS 4301 or CI. Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

**MAS 5312 Algebra II (3) AS MTH**
PR: MAS 5311 or CI. Continuation of MAS 5311. Finely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

**MAT 2936 Technology Seminar 6A (1) AS MTH**
PR: MAS 3105 and MAC 2313. An introduction to the basic computer tools necessary in scientific communication and document preparation.

**MAT 4930 Selected Topics in Mathematics 6A (1-4) AS MTH**
PR: CI. The course content will depend on the interest of faculty members and student demand.

**MAT 4935 Selected Topics in Mathematics 6A (1-4) AS MTH**
PR: MAC 4301. An introduction to the major topics in mathematics. Focus on disease states and the role of bacteria, archaea, viruses, and eukaryotic microbes. Laboratory includes computer media preparation and culturing, staining and enumeration techniques. Lecture and Laboratory. PCB 3063 is recommended.

**MCB 4115C Determinative Bacteriology (5) AS BIO**
PR: MCB 3020C, CHM 2210, MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3034 or PCB 3063 or PCB 3712 and CHM 2211. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec-lab.

**MCB 4404 Microbial Physiology and Genetics (4) AS BIO**
PR: MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: PCB 3034 or PCB 3063 or PCB 3712 and CHM 2211. Physiological, metabolic, and genetic phenomena to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. Emphasizes the interdependence of physiological and genetic approaches. Lecture only.

**MCB 4404L Microbial Physiology and Genetics Laboratory (1) AS BIO**
CR: MCB 4404. Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria. Laboratory only.

**MCB 4503 Virology (3) AS BIO**
PR: MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3034 or PCB 3063 or PCB 3712 and CHM 2211. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogeneis, and interactions with host cells.

**MCB 4910 Microbiology Undergraduate Research (1-4) AS BIO**
PR: CI. For B.S. Microbiology majors only. S/U only. Individual investigation with faculty supervision.

**MCB 4934 Seminar in Microbiology (1) AS BIO**
PR: Senior or advanced junior standing. S/U only. Biology majors may take for elective credit.

**MCB 5206 Public Health and Pathogenic Microbiology (3) AS BIO**
PR: MCB 3020C. CI. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

**MCB 5655 Applied and Environmental Biology (3) AS BIO**
PR: MCB 3020C. A study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.

**MCB 5815 Medical Mycology (3) AS BIO**
PR: MCB 3020C or CI. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

**MET 4002 Climatology (3) AS GPY**
PR: GEO 2200 or CI. An introductory survey of climatology. A qualitative study of the dynamics and general circulation of the atmosphere. Surface and upper level atmosphere linkages in the mid latitudes will be examined. Discussion of the regional climatic patterns and anomalies throughout the world.

**MET 4010C Meteorology (4) AS GPY**
PR: GEO 2200 or CI. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.
topics are presented in their historical context and their impact on the development of mathematics is discussed.

MGF 2131 Chaos and Fractals 6A QM (3) AS MTH
PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra Class score. Computer experiments in the behavior of functions under iteration: periodicity, attractors, stability, complex numbers, Cantor set, fractional dimension, sensitive dependence.

MGF 3301 Bridge to Abstract Mathematics 6A QM (4) AS MTH PR: MAC 2311 or MAC 2283. Techniques and logic of the construction of proofs. Topics will be selected from propositional logic, set theory, relations and functions, equivalence relations, Boolean algebra, cardinality, and limits.

MHF 4403 The Early History of Mathematics 6A MW (3) AS MTH PR: MAC 2312 and upper-level standing. A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 4406 The History of Modern Mathematics 6A MW (3) AS MTH
PR: MAC 2313. Traces the development of mathematical ideas in Western culture.

MHF 5402 The Early History of Mathematics (3) AS MTH PR: MAC 2312 A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 5405 History of Modern Mathematics (3) AS MTH PR: MAC 2313. Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MHS 3411 Multidisciplinary Behavioral Healthcare Services (3) FM FMH
PR: CI or Junior Standing minimum. Working in behavioral healthcare requires the application of specific knowledge and skills. This open enrollment course offers a practical multidisciplinary look at service delivery. Students will examine their career and educational goals in context.

MHS 4025 Human Relations Skills in Counseling (4) ED EDG
PR: Senior Standing minimum. Human Relations Skills in Counseling is a practical course that provides students with the necessary knowledge and skills needed for effective interpersonal relationships. Lecture, seminar, experiential training.

MHS 4002 Behavioral Health Systems Delivery (3) FM FMH
PR: MHS 3411 This course is designed to provide students with an understanding of the significant issues and trends in behavioral health delivery systems in America. Four major areas will be emphasized: 1) history and legislation; 2) systems delivery; 3) programs and policies; 4) selected at-risk populations. This course is not repeatable for credit and is open to non-majors in behavioral healthcare.

MHS 4052 Human Relations Skills in Counseling (4) ED EDG
PR: Senior Standing minimum. Human Relations Skills in Counseling is a practical course that provides students with the necessary knowledge and skills needed for effective interpersonal relationships. Lecture, seminar, experiential training.

MHS 4408 Experiential Practices in Behavioral Healthcare Treatment (3) FM FMH
PR: MHS 3411 This course explores exemplary clinical practices in public behavioral health service delivery. Best or exemplary practices are defined as those that have both a track record and their efficacy has been empirically validated. Modules may begin with a historical perspective of the treatment of a specific population or a treatment strategy but will primarily focus on emerging methodologies.

MHS 4425 Field Experience in Behavioral Healthcare (3) FM FMH PR: MHS 3411, MHS 4002. MHS 4408 This experiential class allows the student to observe and participate with multidisciplinary staff of a provider agency. The student will attend team meetings, observe individual, group, and case management services. Assignments will be made to maximize the student’s time investment in the field. Observations and experiences will be discussed in biweekly class meetings. Students are required to spend 120 hours (an average of 8 hours per week for 15 weeks) in an agency. A faculty mentor will conduct an independent research project in behavioral health (mental health and/or substance abuse) under the guidance of a faculty mentor. May be repeated for maximum of 8 credits.

MHS 4905 Independent Study: Guidance and Counseling Education (1-4) ED EDG
PR: DPR, S/U only. Specialized independent study determined by the student’s needs and interests.

MHS 4906 Directed Study (1-4) FM FMH
PR: Consent of instructor. Student must have a contract with an instructor.

MHS 4912 Independent Research in Behavioral Health (1-4) FM FMH
PR: 1 course in statistics; 1 course in research methods. Students will conduct an independent research project in behavioral health (mental health and/or substance abuse) under the guidance of a faculty mentor. May be repeated for maximum of 8 credits.

MHS 4931 Selected Topics (1-4) FM FMH
PR: Consent of instructor. The course content will depend on the student’s need and instructor’s interest. The course may be repeated for different topics up to 8 hours.

MMF 300 Foundations of Mental Health Counseling (3) AS REH
PR: CC. A skill-building course on the utilization of one’s self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.

MHS 5405 Human Growth and Development (3) AS REH
PR: RCS 5780, MHS 5020 Majors only. Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

MHS 5905 Directed Study (1-4) ED EDG
PR: Consent of instructor. Independent study on a selected topic.

MLS 4038 Introduction to Medical Technology (2) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on medical technology requires the application of specific knowledge and skills. This open enrollment course emphasizes patient presentation, and computer applications.

MLS 4860 Clinical Urology and Body Fluids (2) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, peritoneal, and joint fluids.

MLS 4861 Clinical Immunology (2) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on immunology, including topics such as immunology, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

MLS 4865 Clinical Immunohematology (6) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including blood coagulation and morphological and biochemical aspects of blood cells.

MLS 4863 Clinical Microbiology (6) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on microbiology, including topics such as immunology, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

MLS 4864 Clinical Chemistry (6) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course emphasizing pathophysiology responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.

MLS 4866 Clinical Laboratory Management and Education (1) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including written, oral, and computer-based instruction.

MMC 2100 Writing for the Mass Media (3) AS COM
PR: sophomores and juniors standing and acceptance into an approved affiliated hospital. A hospital clinical course on the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

MMC 3140 Web Publishing (3) AS COM
PR: Junior standing. Fundamentals of Web design/publishing
experience. Course will introduce students to the basic topics, nomenclature, pragmatics, and mechanics involved in Web publishing. Restricted to majors; not repeatable for credit.

**MMC 3602 Mass Communications and Society SS HP (3) AS COM**

**MMC 4106 Science Writing (3) AS COM**
PR: CI. Will focus on techniques (angles, analogies, story structures, dialogue, narrative/plot) to translate complex scientific information into simplified but accurate stories for a non-scientific audience. NOT restricted to majors; not repeatable for credit.

**MMC 4120 Media Convergence (3) AS COM**
PR: JOU 2100, MMC 2100, MMC 3602. Students will learn to write for various media and develop news judgment across platforms. A project will include writing, digital photography and capturing audio for a Web news report. Restricted to majors; not repeatable for credit.

**MMC 4123 Media Script Writing (3) AS COM**
PR: MMC 2100 and MMC 3602. An introduction to the techniques of writing scripts for electronic media. Emphasis is on documentary presentation.

**MMC 4131 Video Storytelling (3) AS COM**
PR: MMC 2100, MMC 3602, VIC 3001. Students will be introduced to concepts and technologies needed to begin working with video as a medium of communication. Basic principles of video editing are taught with short and long form projects. Restricted to majors; not repeatable for credit.

**MMC 4200 History and Principles of Communications Law (3) AS COM**
PR: MMC 2100 and MMC 3602. Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, public relations, and new media.

**MMC 4203 Communication Ethics (3) AS COM**
PR: MMC 2100 and MMC 3602 or CI. A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.

**MMC 4420 Research Methods in Mass Communications (3) AS COM**
PR: MMC 2100 and MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.

**MMC 4503 Literary Journalism (3) AS COM**
PR: JOU 2100 and MMC 2100 or CI. Students will read, discuss, and analyze major works of literary journalism, demonstrating their ability to think critically about the works covered by submitting written commentaries about them.

**MMC 4900 Directed Reading in Mass Communications (1-3) AS COM**
PR: Junior standing and CI. Reading and directed study in special topics.

**MMC 4910 Individual Research in Mass Communications (1-3) AS COM**
PR: Junior standing and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

**MMC 4936 Selected Topics in Mass Communications Studies (1-3) AS COM**
PR: MMC 2100, MMC 3602 and CI. Courses designed to meet current or specific topics of interest to instructors and students.

**MMC 4945 Media Internship-Seminar (3) AS COM**
PR: CI and 15 hours in Mass Comm. courses and completion of an 8-12 week paid media internship with newspaper, broadcast station, or other media-related agency approved by the School. S/ U only. Reports on experiences for discussion and evaluation.

**MUS 1001C Introduction to Music (1) AS MUS**
PR: CI and completion of all Academic Writing courses. Introduces to concepts and techniques critical to effective leadership; teaches personal development life skills relative to leadership, officership, and Army profession; focuses on team building through Korean and U.S. military customs, traditions, and history.

**MUS 1002C Introduction to Tactical Leadership (2) AS MUS**
PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MUS 2000C Adaptive Team Leadership (3) US MIS**
PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MUS 2012C Leadership in a Complex World (3) US MIS**
PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MUS 2020C Developing Adaptive Leaders (3) US MIS**
PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MUS 2900 Army Physical Readiness (1) US MIS**
PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.
MUC 3231 Composition (3) VP MUS
PR: Necessary competency at junior level determined by faculty jury. DPR. Private instruction in original composition. Required of composition majors.

MUC 3401 Electronic Music-Analog Synthesis I (3) VP MUS
PR: MUC 3031 and DPR. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3402 Electronic Music-Analog Synthesis II (3) VP MUS
PR: MUC 2301 and DPR. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441 Electronic Music-Digital Synthesis I (3) VP MUS
PR: MUC 3401 or MUC 3402 and DPR. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 3442 Electronic Music-Digital Synthesis II (3) VP MUS
PR: MUC 3401 or MUC 3402 and DPR. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 4241 Composition (3) VP MUS
PR: Necessary competency at junior level determined by faculty jury. DPR. Private instruction in original composition. Required of composition majors, a minimum of six semester hours.

MUC 4403 Electronic Music-Real-Time Performance I (3) VP MUS
PR: MUC 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis; interfacing electronics with conventional instruments.

MUC 4404 Electronic Music-Real-Time Performance II (3) VP MUS
PR: MUC 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4620 Jazz Composition (3) VP MUS
PR: MUT 3354 and/or DPR. Private instruction in original jazz composition. Required of All Jazz Studios Comp. majors, minimum six of hours.

MUC 5625 Jazz Composition (2) VP MUS
PR: CI. Required of all composition majors. Private instruction in original composition.

MUE 2090 Theoretical Bases Of Music Education (3) VP MUS
PR: The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

MUE 3421 Choral Techniques and Pedagogy (1) VP MUS
A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester.

MUE 3422 Wind Techniques and Pedagogy (2) VP MUS
PR: MUG 3104 A two-semester sequence intended to equip music education students with basic performance, pedagogical, and rehearsal techniques, applicable to brass and woodwind instruments and ensembles.

MUE 3423 String Techniques and Pedagogy (1) VP MUS
PR: DPR. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester.

MUE 3930 Music Education Forum (1) VP MUS
PR: Status as a music education major, permission of the Music Advisor. Discuss MusEd professional organizations (MENC, CMENC, ISME, etc.). Students join CMENC and attend the FMEA conference. Add'l topics: classroom management, school safety, professionalism, education law, and MusEd for special students. Required for MusEd majors 4 semesters @ 1 credit hour per term.

MUE 4210 Music For The Child (3) VP MUS
PR: Admission to the College of Education. DPR. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

MUE 4311 K-12 General Music Methods and Practicum (4) VP MUS
PR: MUE 2090 This course will consist of theoretical and practical training in teaching General Music Education K-12. It will include the study of philosophies, strategies and methodologies in contemporary General Music Education used in the USA and internationally.

MUE 4311 Choral Methods In The Secondary School (3) VP MUS

MUE 4332 Instrumental Music In The Secondary School (3) VP MUS

MUE 4480 Special Ensemble Methods (2) VP MUS
This course is restricted to majors and is repeatable for up to 6 credits.

MUE 4936 Senior Seminar In Music (2) VP MUS

MUE 4940 Internship: Music Education (6-10) VP MUS
CR: MUE 4936. S/U only. DPR. One full semester of internship in public or private elementary and secondary schools. Restricted to majors. May not be repeated for credit.

MUG 3104 Basic Conducting (2) VP MUS
PR: DPR. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

MUG 4302 Instrumental Conducting (2) VP MUS
PR: MUG 3404 and DPR. A study of those techniques of conducting utilized to instrumental music. Required concurrently with MUE 4940.

MUG 5623 Music In The United States FA (3) VP MUS
A comparative survey of the stylistic traits and functions of the folk and traditional music, both sacred and secular, of diverse Western and non-Western cultures. For non-majors, may be taken by majors as electives with departmental approval.

MUG 2632 Music In The United States FA (3) VP MUS
Designated for majors and non-majors, this course will use live performances, videocassettes, and recordings to illustrate music as practiced in America from Colonial to present times. Included in the course will be study of the contributions of various ethnic/minority groups, and discussions of the relevant social issues connected with these contributions.
MUL 3001 Issues in Music FA AF (2-3) VP MUS
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.

MUL 3012 Music in Your Life FA (3) VP MUS
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.

MUN 1100 University Pep Band (1-3) VP MUS
This course provides performance experiences with the Pep Band. The course is open to any major area. Fall Term participation is required prior to enrollment.

MUN 1110 University Marching Band (1-3) VP MUS
This course provides performance experiences with the Marching Band. The course is open to any major area.

MUN 3143 Wind Ensemble (1) VP MUS
PR: DPR. 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.

MUN 3313 University Singers (1) VP MUS
PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3333 Chamber Singers (1) VP MUS
PR: DPR. 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.

MUN 3333 University-Community Chorus (1) VP MUS
PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments.

MUS 4905 Directed Study (1-4) VP MUS
PR: DPR. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration. A contract with all necessary signatures is required for registration.

MUS 4930 Selected Topics In Music (1-4) VP MUS
PR: DPR. The content of the course will be governed by student demand and instructor approval. The requirement for the successful completion of the course is attendance at one (1) department-approved recital/concerts throughout the semester.

MUS 4931 Selected Studio Topics In Music (1-4) VP MUS
PR: DPR. Open only to non-music majors. Lectures and live performances will not count as degree credit for music majors.

MUT 1001 Rudiments Of Music (2) VP MUS
Open to non-music majors: development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

MUT 1111 Music Theory I (3) VP MUS
PR: DPR. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

MUT 1112 Music Theory II (3) VP MUS
PR: MUT 1111, DPR. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

MUT 1241 Aural Theory I (1) VP MUS
PR: DPR. To be taken concurrently with MUT 1111, MUT 1112. 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.

MUT 1242 Aural Theory II (1) VP MUS
PR: MUT 1241. 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.
MUT 2116 Music Theory III (3) VP MUS
PR: MUT 1112, DPR. Required of music majors, continuation of MUT 1111 and 1112.

MUT 2117 Music Theory IV (3) VP MUS
PR: MUT 2116, DPR. Required of music majors, continuation of MUT 2111, 1112, and 1116.

MUT 2246 Aural Theory III (1) VP MUS
PR: MUT 2142. To be taken concurrently with MUT 2116, MUT 2117, DPR. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

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

MUT 2641 Jazz Theory And Improvisation I (2) VP MUS
PR: MUT 1112 and/or DPR. A study of jazz improvisational techniques and related jazz theory.

MUT 2642 Jazz Theory And Improvisation II (2) VP MUS
PR: MUT 2641 or DPR. A study of jazz improvisational techniques and related jazz theory.

MUT 3353 Jazz Composition and Arranging I (3) VP MUS
PR: MUT 2112 and DPR. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 3354 Jazz Composition And Arranging II (3) VP MUS
PR: MUT 3353 and DPR. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 3663 Advanced Jazz Improvisation I (2) VP MUS
PR: MUT 2642 or DPR. A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 3664 Advanced Jazz Improvisation II (2) VP MUS
PR: MUT 3663, DPR. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 4310 Orchestration I (2) VP MUS
PR: DPR. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 4311 Orchestration II (2) VP MUS
PR: MUT 4310, DPR. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 4421 Eighteenth Century Practice (3) VP MUS
PR: MUT 2111, DPR. An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

MUT 4571 Twentieth Century Practice (3) VP MUS
PR: MUT 2117, DPR. A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

MUT 5051 Graduate Review Of Music Theory (2) VP MUS
PR: DPR. A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and does not count toward the graduate degree requirements.

MVB 1211 Applied Trumpet (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1212 Applied French Horn (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1213 Applied Trombone (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1214 Applied Euphonium (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1215 Applied Tuba (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1311 Trumpet Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1312 French Horn Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1313 Trombone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1314 Euphonium Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1315 Tuba Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1411 Trumpet Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1412 French Horn Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1413 Trombone Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1414 Euphonium Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1415 Tuba Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 2321 Trumpet Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 2322 French Horn Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 2323 Trombone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 2324 Euphonium Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only.
Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 2325 Trombone Principal (2) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all music majors. Private and class instruction.

MVB 2445 Tuba Principal (2) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3335 Trombone Principal (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3336 French Horn Principal (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3341 Euphonium Major (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all music majors. Private and class instruction.

MVB 3343 Tuba Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3342 French Horn Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3344 Euphonium Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3345 Tuba Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3346 Trombone Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3347 Bassoon (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3348 Euphonium Principal (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3349 Bass Trombone (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3441 Trumpet Major (3) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3442 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3443 Trombone Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3444 Euphonium Principal (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3445 Tuba Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3446 Trombone Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3447 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3448 Euphonium Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3449 Bass Trombone (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3450 Tuba Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3451 Trumpet Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3452 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3453 Trombone Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3454 Trumpet Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3455 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3456 Euphonium Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3457 Trombone Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3458 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3459 Tuba Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3460 Trombone Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3461 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3462 Euphonium Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3463 Trombone Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3464 Trumpet Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3465 French Horn Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3466 Euphonium Major (3) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3467 Trombone Major (2) VP MUS
PR: DPR. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.
MVJ 5259 Applied Jazz Percussion Secondary (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 4950 Applied Jazz Performance (3) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 3339 Applied Jazz Percussion Principal (2) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 3430 Applied Jazz Piano Principal (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 3433 Jazz Guitar Major (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 3434 Jazz Bass Major (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 4349 Jazz Percussion Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 4444 Jazz Bass Major (3) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 4449 Jazz Percussion Major (3) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 4950 Applied Jazz Performance (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 5250 Applied Jazz Piano Secondary (2) VP MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5252 Applied Jazz Bass Secondary (2) VP MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5253 Applied Jazz Guitar Secondary (2) VP MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5254 Applied Jazz Bass Secondary (2) VP MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5259 Applied Jazz Percussion Secondary (2) VP MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.
MVK 3431 Piano Major (3) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVK 4441 Piano Major (3) VP MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVK 4646 Piano Pedagogy I (4) VP MUS
PR: DPR. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

MVK 4648 Piano Pedagogy II (4) VP MUS
PR: MVK 4640, DPR. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

MVK 5251 Applied Piano (2-4) VP MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVP 1111 Keyboard Skills I (2) VP MUS
PR: DPR. Course is open by audition only. One-half hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVP 1111 Keyboard Skills II (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVP 1111 Keyboard Skills III (2) VP MUS
PR: DPR. Course is open by audition only. One-half hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVP 1111 Keyboard Skills IV (2) VP MUS
PR: DPR. Necessary competency determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 1211 Keyboard Skills V (2) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 1211 Keyboard Skills VI (2) VP MUS
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 1211 Keyboard Skills VII (2) VP MUS
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 1211 Keyboard Skills VIII (2) VP MUS
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 1211 Keyboard Skills IX (2) VP MUS
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 1211 Keyboard Skills X (2) VP MUS
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 2321 Percussion Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVP 3431 Percussion Major (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 5051 Applied Jazz Performance (2) VP MUS
PR: Necessary competency at sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MV J 5051 Applied Jazz Performance (2) VP MUS
PR: Necessary competency at sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.
major and for a limited number of nonmusic majors who have had prior musical training.

**MVS 1214 Applied Double Bass** (1) VP MUS
PR: DPR. Course is open by audition only. One-half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVS 1311 Violin Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1312 Viola Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1313 Violoncello Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1314 Double Bass Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1344 Double Bass Major** (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1343 Violoncello Major** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1342 Viola Major** (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1341 Violin Major** (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 2322 Viola Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 2323 Violoncello Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 2324 Double Bass Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 2421 Violin Major** (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 2422 Viola Major** (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 2423 Violoncello Major** (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 2424 Double Bass Major** (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 3331 Violin Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 3332 Viola Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 3333 Violoncello Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 3334 Double Bass Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 3431 Violin Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 3432 Viola Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 3433 Cello Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 4341 Violin Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 4342 Viola Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 4343 Violoncello Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 4344 Double Bass Principal** (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 4441 Violin Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 4442 Viola Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 4443 Cello Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 4444 Double Bass Major** (3) VP MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 5251 Applied Viola** (3) VP MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.
MVS 5252 Applied Viola (2-4) VP MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5253 Applied Cello (2-4) VP MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5254 Applied Double Bass (2-4) VP MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVV 1211 Applied Voice (1) VP MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVV 1311 Voice Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 1411 Voice Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 2321 Voice Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 2421 Voice Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 3331 Voice Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 3411 Voice Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 4441 Voice Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 5251 Applied Voice (2-4) VP MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MWW 1211 Applied Flute (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MWW 1212 Applied Oboe (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MWW 1213 Applied Clarinet (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MWW 1214 Applied Bassoon (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MWW 1215 Applied Saxophone (1) VP MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MWW 1311 Flute Principal (2) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1312 Oboe Principal (2) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1313 Clarinet Principal (2) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1314 Bassoon Principal (2) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1315 Saxophone Principal (2) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1411 Flute Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1412 Oboe Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1413 Clarinet Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1414 Bassoon Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 1415 Saxophone Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 2231 Flute Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 2322 Oboe Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 2323 Clarinet Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MWW 2324 Bassoon Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.
MVW 2421 Flute Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2422 Oboe Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2424 Bassoon Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2423 Clarinet Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2425 Saxophone Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2426 Saxophone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2427 Oboe Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2428 Bassoon Principal (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2429 Clarinet Principal (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2430 Saxophone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2431 Flute Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2432 Oboe Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2433 Clarinet Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2434 Bassoon Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2435 Saxophone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2436 Flute Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2437 Oboe Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2438 Bassoon Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2439 Clarinet Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2440 Bassoon Principal (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2441 Flute Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2442 Oboe Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2443 Clarinet Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2444 Bassoon Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2445 Saxophone Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2446 Saxophone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2447 Clarinet Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2448 Bassoon Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2449 Saxophone Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2450 Flute Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2451 Oboe Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2452 Clarinet Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2453 Bassoon Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2454 Saxophone Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2455 Flute Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2456 Oboe Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2457 Clarinet Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2458 Bassoon Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2459 Saxophone Major (3) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2460 Flute Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 2461 Oboe Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.
NUR 3026L Clinical Experience in Health Assessment - RN (1) NU NUR
PR: Admission to nursing major or CI. CR: NUR 3066. Clinical experience on history taking, physical assessment skills basic to biopsychosocial assessment and physical examination of adults and children. Emphasizes diagnostic reasoning and identification of alteration in functional health patterns.

NUR 3125 Pathophysiology for Nursing Practice (4) NU NUR
PR: Admission to the nursing major or CI. Central concepts of pathophysiology: cells, tissues, organs and systems. Provides essential knowledge base in pathophysiology across the lifespan for professional nursing practice.

NUR 3145 Pharmacology in Nursing Practice (3) NU NUR
PR: Admission to the nursing major or CI. Focus on the basic and clinical concepts of pharmacology in nursing practice. Examines pharmacochemistry; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications and nursing implications.

NUR 3215 Medical Surgical Nursing I (3) NU NUR
PR: NUR3026, NUR3026L, NUR3066, NUR3076, NUR3125, NUR 3215L. Focuses on the nursing assessment, prevention, and management of selected health care problems in adults of all ages. Critical thinking is used to analyze the effects of changes in health status and impact of nursing intervention for: patients with alteration in fluid and electrolyte balance, Hemotologic System, Cardiovascular System, Pulmonary System, Renal System, Endocrine, Cancer, Mutsystem Dysfunction.

NUR 3215L Medical Surgical Nursing Clinical I (4) NU NUR
PR: NUR3026, NUR3026L, NUR3066, NUR3076, NUR3125, NUR 3215L. Emphasize clinical judgment in implementing therapeutic nursing interventions for patients with selected health problems related to specific abnormalities in functional patterns.

NUR 3525 Psychiatric/Mental Health Nursing (3) NU NUR

NUR 3525L Psychiatric/Mental Health Nursing Clinical (3) NU NUR
PR: NUR3076, NUR3066, NUR3125, NUR 3526L, NUR3066. CR: NUR 3525. Focus on clinical intervention using critical thinking and communication skills with patients who require complex psychiatric rehabilitative care. Opportunities are offered to apply knowledge of psychopathology and psychopharmacological therapies across the lifespan.

NUR 3805 Education Transitions for Registered Nurses (3) NU NUR
PR: CI. Nursing Majors. Introduction to contemporary bioethical and legal issues confronting health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

NUR 4028L Accelerated Fundamentals Laboratory (1) NU NUR
Experiences in the fundamental skills of clinical nursing practice. The focus is on applying the nursing process and developing nurse psychomotor skills.

NUR 4097 Introduction to Nursing Humanities MW (3) NU NUR
Overview of the humanities in nursing including an exploration of fictional and biographical literature, visual art, film, and multidisciplinary professional literature focusing on human experience of and response to health, illness, death, and dying.

NUR 4098 Perioperative Nursing (3) NU NUR
PR: Admission to the nursing major or Registered Nurse. Provide nursing students or Registered Nurses with basic knowledge and clinical skills to function in an entry level. Extensive classroom and clinical experience in aseptic technique and considerations for perioperative procedures are included.

NUR 4165 Nursing Inquiry (3) NU NUR
PR: Admission to the nursing major or CI. An introductory course in statistics is recommended. An analysis of the research process. Emphasis on identification of researchable nursing problems and
evaluations of research that is applicable to nursing practice. Focus on evidence-based practice for nursing.

NUR 4178 Complimentary and Alternative Therapies MW (3) NU NUR
Explore and analyze Complementary and Alternative Therapies and their effectiveness and appropriateness. Discuss Alternative Medical Systems, Mind-Body Interventions, Biologically Based Therapies, Manipulative and Body-Based Methods, and Energy Therapies.

NUR 4194 An Interdisciplinary Perspective in HIV Disease 6A MW MW (3) NU NUR
Provides an interdisciplinary perspective on HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; historical, social, and political aspects; issues of race, gender, and ethnicity; values, ethics, and their influence on responses to HIV; and how the media has shaped the epidemic.

NUR 4216 Medical Surgical Nursing (4) NU NUR
Focus on the nursing assessment, prevention, and management of multiple health care problems. Critical thinking is used to analyze the effects of changes in health status and the impact of nursing intervention for patients with alterations in Visual and Auditory systems, Neurological systems, Musculoskeletal systems, Gastrointestinal systems, and Reproductive systems.

NUR 4216L Medical Surgical Nursing Clinical II (5) NU NUR

NUR 4235L Accelerated Integrated Clinical I (5) NU NUR
Focus on critical thinking, effective communication and nursing interventions for individuals of all ages in the in-patient and community settings.

NUR 4257 Critical Care (2) NU NUR
PR: Nursing Majors or CI. Basic concepts of critical care nursing, focusing on selected health problems to analyze the effects of changes in health status.

NUR 4286 Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults 6A MW (3) NU NUR
PR: NUR 3215, NUR 3215L, NUR 3415, CR: NUR 4216L. Focus on the assessment, prevention, and management of multiple health care problems. Critical thinking is used to analyze the effects of changes in health status and the impact of nursing intervention for patients with alterations in Visual and Auditory systems, Neurological systems, Musculoskeletal systems, Gastrointestinal systems, and Reproductive systems.

NUR 4455 Women's Health Nursing 2 (2) NU NUR
Focus on health promotion, risk factor identification, disease prevention, and health restoration related to the physiological and psychological changes occurring during a woman's life cycle including pregnancy.

NUR 4635L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women's Health (3-7) NU NUR
PR: NUR 4216, NUR 4216L. CR: NUR 4455, NUR 4635, NUR 4455. Provides clinical learning experiences in community and hospital settings. Focuses on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness, and treat illness and injury in children, adolescents, adults and families, and diverse community populations across the age spectrum.

NUR 4636 Community/Public Health: Population-Focused Nursing MW (3) NU NUR
PR: NUR 4216, NUR 4216L or CI. In-depth examination of community health nursing, public health, epidemiology, culture, and environment essential to preventing illness and injury and promoting and preserving health among diverse populations at risk.

NUR 4636L Community/Public Health Nursing Clinical (3) NU NUR
CR: NUR 4636 (can be taken prior to or with NUR 4636L). Provides clinical experiences in community-based sites in both urban and rural settings. Focuses on nurses who design and implement interventions to prevent and/or reduce risk of disease and injury and to promote health and wellness among diverse populations across the lifespan.

NUR 4645 Substance Abuse Across the Lifespan (3) NU NUR
Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts of substance use/abuse to clinical assessment, diagnosis and intervention with clients and families across the lifespan is explored.

NUR 4655 Cultural Diversity in Health and Issues MW (3) NU NUR
Explore the impact of culture on health, illness and the meanings these terms carry for members of differing sociocultural populations. Health-related practices, values, strategies for health care and beliefs among cultural groups will be analyzed.

NUR 4677L Accelerated Integrated Clinical II (5) NU NUR
Focus on nursing interventions for the patient with physical and mental health problems. Therapeutic communication and clinical judgment to implement nursing interventions with the patient and family.

NUR 4838 Leadership and Management in Professional Nursing Practice (3) NU NUR
PR: NUR 4455, NUR 4355, NUR 4636, NUR 4636L or CI. Principles of nursing leadership and management with an emphasis on decision-making, prioritization, setting, delegating, and managing nursing care. Focus on preparation of the professional nurse to work collaboratively in the interdisciplinary health care environment. Clinical experience for registered nurse students will be designed to build upon a practice background.

NUR 4905C Independent Study (1-5) NU NUR
PR: Permission of faculty. Open to majors and non-majors. Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned and supervised.

NUR 4930 Registered Nurse First Assistant Course (3) NU NUR
PR: CI. This course will provide a foundation of knowledge and technical skills necessary for the experienced perioperative registered nurse to function in the role of registered nurse first assistant (RNFA).

NUR 4935 Selected Topics In Nursing (1-8) NU NUR
PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory.

NUR 4940 Internship for the Registered Nurse First Assistant (4) NU NUR
PR: CI. This course provides 120 hours of clinical experiences in the roles and responsibilities and technical skills required of the registered nurse first assistant (RNFA).

NUR 4948L Preceptorship (6) NU NUR
PR: NUR 4216, NUR 4216L, NUR 4455, NUR 4455, NUR 4636, NUR 4635L. Individually contracted 150 hours of clinical practicum collaboratively planned by students, faculty, and agency personnel. Opportunity to synthesize theory and clinical practice for professional nursing.

OCE 2001 Introduction to Oceanography NS (3) MS MSC
Overview of biological, chemical, geological, and physical and cultural oceanography.

OCE 4930 Selected Topics in Marine Science (1-4) MS MSC
Selected topics in marine science including marine biology, marine chemistry, marine geology, geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.

ORI 2000 Introduction to Communication As Performance (3) AS SPE
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

ORI 3950 Communication As Performance Laboratory (1-3) AS SPE
PR: EDC 2600 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.

ORI 4019 Performing Identity and Culture (3) AS SPE
PR: ORI 2000. Focused on theory and practice of identity and culture as performed in ritual, community, and aesthetic contexts. Majors only; nonmajors by permit only. May not be repeated for credit.

ORI 4120 Performance of Poetry (3) AS SPE
PR: SPC 2600 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study poetic theory and poetic techniques.

ORI 4150 Performing Nonfiction (3) AS SPE
PR: ORI 2000. Explores the genre of nonfiction, including diaries, memoirs, travelogues, new journalism, personal essays, and weblogs. For majors; nonmajors by permit. May not be repeated for credit.

ORI 4220 Performing Young Adult Literature (3) AS SPE
PR: ORI 2000. Performance of literature written for young adults with an emphasis on cultural values and beliefs. For majors; nonmajors by permit only. May not be repeated for credit.
ORI 4310 Group Performance of Literature (3) AS SPE
PR: ORI 2000. Explores the intersection of writing and performance as aesthetic and communicative practices. For majors; nonmajors by permit only. May not be repeated for credit. ORI 4410 Performance Art (3) AS SPE
PR: ORI 2000. Explores history, criticism, and practice of performance art as a genre of performance. Restricted to majors; nonmajors with permit only. Not repeatable for credit. ORI 4419 Performing Relationships (3) AS SPE
PR: ORI 2000. Explores interpersonal, organizational, and intercultural theories of human relationships as realized in literary texts through performance. For majors; nonmajors permit only. May not be repeated for credit. ORI 4931 Performance and Video (3) AS SPE
PR: ORI 2000. CR: ORI 3950. This course features adaptation, direction, and performance of literature for video productions. ORI 5930 Topics in Performance Genres (3) AS SPE
Variable topics course. PR: URP 4050 or URP 6056, GS or Sr. Analysis of basic concepts, theories, principles and practices of personnel management and supervision that influence the attainment of desired performance goals in today's public and not-for-profit organizations. Course participants will explore issues that influence the successful management of human resources in dynamic employment settings. PAD 4712 Managing Information Resources in the Public Sector (3) AS PAD
PR: ORI 2000. CR: PCB 4723. Laboratory portion of Animal Physiology. Lecture only. PAD 4930 Selected Topics in Public Administration and Public Policy (3) AS PAD
PR: ORI 2000. CR: PCB 4723. Laboratory portion of Animal Physiology. Laboratory course based on student demand and instructor's interest. May be repeated for up to 6 credits as topics vary. PAD 5035 Issues in Public Administration and Public Policy (3) AS PAD
Sr. & GS only. Selected issues and topics in Public Administration and Public Policy. PAD 5044 Environment of Public Administration (3) AS PAD
PR: ORI 2000. CR: PCB 4723. Laboratory portion of Animal Physiology. Examination of the legal, political, and ethical environment in which public managers work. PAD 5333 Concepts and Issues in Public Planning (3) AS PAD
PR: URP 4050 or URP 6056, GS or Sr. Analysis of basic concepts, issues, and strategies of planning, policy determination, collection of information, and decision-making. PAD 5605 Administrative Law and Regulation (3) AS PAD
An examination of the constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management practices, and relationships with other branches of government. PAD 5700 Research Methods in Public Administration (3) AS PAD
PR: MPA, GCQM, and GCNM majors only. Research design: skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs. PAD 5807 Urban and Local Government Administration (3) AS PAD
PR: ORI 2000. CR: PCB 4723. Laboratory portion of Animal Physiology. GS or Sr. Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process. PAD 5816 Comparative Public Administration (3) AS PAD
PR: ORI 2000. CR: PCB 4723. Laboratory portion of Animal Physiology. GS or Sr. How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic contexts. PCB 1511 Molecular and Human Genetics (3) US DEA
PR: Acceptance in USF-Hillsborough County Biomedical and Life Science Program. Molecular genetics with applications to biomedical science; genetic engineering; chromosomes, their molecular architecture, abnormalities, and other topics. Laboratory included. PCB 1910 Topics in Biomedical Science (3) US DEA
PR: Acceptance in USF-Hillsborough County Biomedical and Life Science Program. Designed to initiate high school students to the fundamentals of scientific research. Students are given lectures and perform laboratory exercises in pathogenic microbiology, immunology, marine biology, and plant biochemistry. Most of their time is spent working on individual research projects. PCB 3023 Cell Biology (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2210. A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Lecture only. PCB 3032 Laboratory Portion of Cell Biology (1) AS BIO
CP: PCB 3023. Laboratory portion of Cell Biology. Metabolic processes within the cell. PCB 3043 Principles of Ecology (3) AS BIO
BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. Introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lecture only. PCB 3043 Principles of Ecology Laboratory (1) AS BIO
CP: PCB 3043. Laboratory portion of PCB 3043, Principles of Ecology. PCB 3063 General Genetics (3) AS BIO
BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2210. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lecture only. PCB 3063L General Genetics Laboratory (1) AS BIO
CP: PCB 3063. Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions. PCB 3712 General Physiology (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023. Comparative analysis of animal structure and function: organ systems and activities of body tissue and organs. Functional responses of plants to both internal and environmental signals. Lecture only. PCB 3713L General Physiology Laboratory (1) AS BIO
PR: PCB 3712. Laboratory portion of General Physiology. PCB 4234 Principles of Immunology (3) AS BIO
PR: PCB 3023 or PCB 3063 or MCB 3020C and CHM 2210 and MAC 1105 or higher-level MCB course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Emphasis is on organization and functions of vertebrate immune system. Basic cellular and molecular mechanisms of immune responses in health and disease are addressed as well as the principles and applications of immunological methods. Lecture only. PCB 4522C Experimental Genetics (3) AS BIO
Experimental analysis of genetic systems. Lec-Lab. PCB 4674 Organic Evolution (3) AS BIO
PR: PCB 3063. An introduction to modern evolutionary theory. Lectures on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lab-class. PCB 4723 Animal Physiology (3) AS BIO
PCB 3712 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. Comparative analysis of the physiological processes and mechanisms employed by animals to interact with their environment and to maintain their organization. Lecture only. PCB 4723L Animal Physiology Laboratory (1) AS BIO
CR: PCB 4723. Laboratory portion of Animal Physiology.
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<tr>
<th>Course Code</th>
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<tr>
<td>PCB 4843</td>
<td>Principles of Neuroscience</td>
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<tr>
<td>PCB 4723</td>
<td>Study of the mammalian brain'a structure and function, with an emphasis on the</td>
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<td>human neuroanatomy, neuropathology, and neuropsychology.</td>
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<td>PCB 5256</td>
<td>Developmental Mechanisms</td>
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<td>PET 3365</td>
<td>Physical Activity Epidemiology</td>
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<td>PET 3361</td>
<td>Nutrition for Fitness and Sport</td>
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<td>PET 3353</td>
<td>Exercise Physiology</td>
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<td>PET 3012</td>
<td>Professional Development in Physical Education I (1)</td>
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<td>PET 3031</td>
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<td>PET 3312</td>
<td>Biomechanics</td>
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<td>PET 3313</td>
<td>Exercise Physiology I (3)</td>
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<td>PET 3013</td>
<td>Professional Development in Physical Education II (1)</td>
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<td>PET 3252</td>
<td>Issues in Sport MW (3)</td>
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<td>PET 3316</td>
<td>Nutrition for Fitness and Sport</td>
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<td>PET 3317</td>
<td>Exercise Physiology</td>
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<td>Exercise Testing and Prescription</td>
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<td>Physical Activity Epidemiology</td>
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<tr>
<td>PET 3404</td>
<td>Emergency Response and Planning</td>
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**PCB 4843 Principles of Neuroscience (3) AS BIO**
- PR: PCB 4723 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: CHM 2211.

**PCB 5256 Developmental Mechanisms (3) AS BIO**
- PR: ZOO 4685. Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors.

**PET 3365 Physical Activity Epidemiology (3) ED EDP**
- PR: Admission to the Exercise Science Program. A presentation of the background and main concepts of epidemiology and discussion and summary of original research. Major topics include coronary artery disease, cerebrovascular disease, peripheral vascular disease, diabetes, arthritis, and COPD.

**PET 3404 Emergency Response and Planning (3) ED EDP**
- PR: Admission to the Exercise Science Program. Students will develop emergency response knowledge and skills through ARC first aid emergency response, CPR/AED certifications and will proactively assess, develop and implement a plan of response for emergency situations in fitness/wellness centers.
PET 3421 Curriculum and Instruction in Physical Education (3) ED EDP
Physical Education majors only. Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.

PET 3441 Investigational Design and Content: Middle School Physical Education (3) ED EDP
Physical Education majors only. The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner.

PET 3613 Measurement and Evaluation in Athletic Training (3) ME ATH
PR: PET 3696. This course is an introduction to the study and practice of measurement and evaluation techniques used in the assessment and rehabilitation of orthopaedic injuries. AT majors only. Credit not repeatable.

PET 3617C Upper Extremity Assessment (3) ME ATH
Athletic Training majors only. The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine.

PET 3618C Lower Extremity Assessment (3) ME ATH
Athletic Training majors only. The study and practice of techniques used when assessing injuries to the lower extremity, hip, pelvis, low back and foot.

PET 3621C Athletic Training Techniques (3) ME ATH
Athletic Training majors only. Overview course including basic components of the athletic training profession including the preparation, recognition, and immediate care of athletic injuries. Medical terminology, emergency procedures, and taping procedures will be covered.

PET 3640 Adapted Physical Education (3) ED EDP
Physical Education majors only. A study of characteristics, programming needs and teaching of physical education for students with disabilities.

PET 3660 Athletic Training Administration and Policy (3) ME ATH
Athletic Training majors only. Analysis and application of organizational skills and administrative structure of the athletic training profession, including current theory about budget management, medical record keeping, drug testing, facility design and maintenance, legal aspects of sports medicine, athletic physical examinations, medical ethics, current educational concepts, and administrative policy.

PET 3670L Clinical Experience in Athletic Training II (3) ME ATH
PR: PET 3671L. Athletic Training majors only. Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory and mid-level athletic training skills. Weekly seminar also required.

PET 3671L Clinical Experience in Athletic Training I (3) ME ATH
PR: PET 3621C. Athletic Training majors only. Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. A weekly seminar is also required.

PET 3696 Documentation in Athletic Training (1) ME ATH
PR: Admission to Athletic Training Program. CR: PET 3613. Designed to prepare athletic training students with an introduction to the foundation of appropriate terminology, documentation, and communication methods as they relate to athletic training and sports medicine. Majors only.

PET 3713 Theory and Practice of Teaching Group Exercise (3) EDP
PR: Admission to the Exercise Science Program. In developing group exercise leadership skills, students will learn how to apply the principles of teaching safe and effective exercises designed to enhance cardiovascular endurance, muscular strength/endurance, and flexibility.

PET 3931 Selected Topics in Sports Medicine (1-3) ME ATH
DPR. Topics offered are selected to reflect student need and faculty interest.

PET 3940 Practicum in Fitness/Wellness (3) ED EDP
PR: Admission to the Exercise Science Program. This course will provide the initial field experience in a community fitness/wellness center serving general populations. Students will gain practical experience with regard to teaching group exercise and conducting health fitness tests.

PET 4093 Strength and Conditioning (3) ED EDP
PR: Admission to the Exercise Science Program. This course will provide students with the information necessary for designing and implementing a successful strength and conditioning program through assessment and analysis of fitness and sport movement.

PET 4141 Trends and Tasks- Elementary Physical Education (3) ED EDP
Taken concurrently with PET 4942 Physical Education Internship: Elementary. Physical Education Majors only. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters.

PET 4142 Trends and Tasks - Secondary Physical Education (1) ED EDP
Taken concurrently with PET 4944 Physical Education Internship: Secondary. Physical Education Majors only. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters.

PET 4219 Exercise Psychology (3) ED EDP
PR: Admission to the Exercise Science Program. A presentation of the basic concepts related to exercise behavior. The content will include topics related to the psychosocial dimensions of exercise behavior to include participation, motivation, and adherence. Theoretical models will also be presented.

PET 4304 Principles and Issues in Coaching (3) ED EDP
Physical Education majors only. The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

PET 4353 Exercise Physiology II (3) ED EDP
PR: PET 3351. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patient, arthritics, elderly, and high performance athletes. Open to non-majors.

PET 4384 Exercise Prescription for Strength & Conditioning (3) ME ATH
PR: PET 3351. Athletic Training majors only. Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring.

PET 4401 Class Management, Safety, Ethics, Law, and Organization and Administration of Physical Education (3) EDEP
Physical Education majors only. This course will examine the various classroom management approaches, professional ethics, school law, safety, and the organization and administration of physical education programs.

PET 4402 Planning and Evaluating Fitness/Wellness Programs (3) ED EDP
PR: Admission to the Exercise Science Program. This course will focus on the design of high quality fitness/wellness programs in worksite and other settings. Students will learn and apply the major components of program planning – needs assessment, development, implementation, and evaluation.

PET 4406 Individualized Fitness/Wellness Programming (3) EDEP
PR: Admission to the Exercise Science Program. In this course students will learn how to assess, evaluate, and design safe and effective programs for individual clients. Students will also learn how to incorporate appropriate activities for specialized clients or populations.

PET 4416 Administration of Fitness/Wellness Centers (3) ED EDP
PR: Admission to the Exercise Science Program. This course will examine management issues in the areas of human resources, budgeting, marketing, legal liability, and risk management. Students will develop skills to manage safe/effective programs and services in various fitness/wellness settings.

PET 4432 Instructional Design and Content: Physical Education Elementary (3) ED EDP
Physical Education majors only. This is the first in a two-course sequence in which students study movement forms and instructional content and design suitable for elementary age students. Majors only.

PET 4433 Instructional Design and Content: Physical Education Elementary II (3) ED EDP
Physical Education majors only. This course prepares students to select, plan, conduct complex movement experiences for students K-6.

PET 4442 Instructional Design and Content: Physical Education Secondary (3) ED EDP
Physical Education majors only. Development of knowledge and skills related to the teaching of selected movement activities such as
as team sports, gymnastics, and physical fitness. Focus is on understanding athletic principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.

**PET 4550 Clinical Exercise Testing and Prescription (3) ED EDP**
PR: Admission to the Exercise Science Program. A presentation of concepts related to the clinical aspects of fitness assessment and exercise programming. Clinical conditions that will be considered include: cardiovascular disease, pulmonary disease, metabolic disease, arthritis, and diabetes.

**PET 4625 Advanced Athletic Training (3) ME ATH**
PR: PET 3617C and PET 3618C. Athletic Training majors only. Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

**PET 4627 General Medical Conditions in the Athlete (3) ME ATH**
PR: PET 3617C and PET 3618C. Advanced theory of pathology in injury, management of tissue and bone healing environments, disease, internal illness and injury and other general medical conditions. Issues related to radiology and pharmacology are also discussed.

**PET 4632C Therapeutic Modalities (3) ME ATH**
Athletic Training majors only. This course provides an introduction to the theoretical and practical applications of modalities for the prevention, management and rehabilitation of physically active individuals. Concepts pertaining to the use of pharmacology, thermotherapy, cryotherapy, electrical stimulation, hydrotherapy, fluidotherapy, ultrasound, biofeedback and manual techniques will be emphasized.

**PET 4633C Therapeutic Rehabilitation (3) ME ATH**
Athletic Training majors only. Theories and applications methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.

**PET 4672L Clinical Experience in Athletic Training III (3) ME ATH**
PR: PET 3617L. Athletic Training majors only. Performance of mid-level athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in mid-level and advanced athletic training skills. Weekly seminar also required.

**PET 4673L Clinical Experience in Athletic Training IV (3) ME ATH**
PR: PET 4672L. Athletic Training majors only. Continuation of clinical experience utilizing new skills under the direction of a NATA/BOC certified/licensed athletic trainer accompanied by a one-hour seminar each week. This course provides students with the opportunity to develop competence in a variety of mid-level and advanced athletic training skills. Students may be assigned to a USF athletic team and/or one or more off-campus clinical affiliations. Students at this level will develop instruction skills by assisting peer-supervisors for level I, II and III students.

**PET 4905 Independent Study: Professional Physical Education (1-4) ED EDP**
PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests. Repeatable 1 time.

**PET 4908 Independent Study in Sports Medicine (1-3) ME S/U**
PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests. Repeatable 1 time.

**PET 4931 Selected Topics in Sports Medicine (3) ED EDP**
PR: PET 3310, PET 3351. Pertinent and timely topics in sports medicine will be discussed. Topics and issues may vary but could include psychology of injury, environmental issues, reimbursement, pharmacology, ethical/legal issues, and performance enhancement. A.T. majors only.

**PET 4933 Seminar in Sports Medicine 6A LW (3) ME ATH**
PR: PET 3617C and PET 3618C. The advanced study, writing, and discussion of topics and issues related to the field of athletic training. Emphasis is on professional preparation, credentialing, governance, ethics, and scope of practice. Employment issues will also be studied.

**PET 4981 Case Studies in Athletic Health Care (3) ME ATH**
Athletic Training majors only. Capstone course intended to provide a unifying opportunity to utilize concepts, principles and skills learned from other athletic training courses.

**PET 4941 Internship in Fitness/Wellness (9) ED EDP**
PR: Admission to the Exercise Science Program. This course will provide the final field experience in a community fitness/wellness center serving both general and special populations. Practical experiences within focus on all aspects of program development, delivery, and management.

**PET 4942 Physical Education Pre-Internship: Elementary (3) EDP**
PR: CC. A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies.

**PET 4944 Physical Education Pre-Internship: Secondary (3) ED EDP**
CC. A part-time internship in middle or high school level physical education with focus on the relationship of physical education to the needs of the adolescent and the implementation of appropriate content and methodology.

**PET 4946 Internship in Physical Education: Elementary (6) ED EDP**
CC. A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education.

**PET 4947 Internship in Physical Education: Secondary (6) ED EDP**
S/U only. Physical Education majors only. A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students.

**PGY 2110C Color Photography (3) VP ART**
Development of knowledge and skills of color photography for publication and presentation. Emphasis is on the use of transparency and negative color materials in their application to the media.

**PGY 2401C Beginning Photography (3) VP ART**
Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experimental ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will provide an overview of significant trends and directions in contemporary art photography.

**PGY 3001 Photography in American Culture (3) AS AMS**
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

**PGY 3410C Intermediate Photography (3) VP ART**
PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ARH 2050, ARH 2051, PGY 2410C. A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction. Repeatable up to 9 hours.

**PGY 3610C Photojournalism I (3) AS COM**

**PGY 3620 Photojournalism II (3) AS COM**
PR: PGY 3610C. Laboratory required. Advanced process and practice of photography for publication.

**PGY 3801C Digital Media I (3) VP ART**
Restricted to majors. This course builds upon the concepts introduced in Introduction to Multimedia Systems and focuses upon digital photographic creation and editing.

**PGY 3930C Special Topics: Photography (3) VP ART**
PR: PGY 3410C. A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction by exposing the student to new ideas, technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography.

**PGY 4420C Advanced Photography (3) VP ART**
PR: PGY 3410C (3 cr.), PGY 3930C (6 cr.) and a 3.25 major GPA. Majors only. Continued problems in photography. May be repeated.

**PGY 4460C Digital Media II (3) VP ART**
Restricted to majors. This course builds upon the concepts introduced in Digital Media I and focuses upon digital photographic, web and digital video creation.

**PGY 5420C Art Photography (4) VP ART**
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements.

**PHC 4542 Stress, Health and College Life (3) PH CFS**
The purpose of this course is to examine the relationship between stress, as a multi-casual concept, health and disease. Focus areas include: the historical evolution and current theories of stress as they relate to types of stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.

**PHC 5933 Special Topics (1-3) PH PHC**
Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current...
PHI 2000 Introduction to Philosophy 6A HP (3) AS PHI
An introduction to selected philosophical problems and traditions.

PHI 2962 History of Western Philosophy: Ancient Philosophy (3) AS PHI
A survey of Western philosophy from the Pre-Socratics to Late Antiquity.

PHI 3400 History of Philosophy: Modern (3) AS PHI
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

PHI 3420 Early Modern Philosophy (3) AS PHI
A survey of Western philosophy from the end of the Renaissance to the beginnings of the Enlightenment.

PHI 4440 Continental Philosophy (3) AS PHI
A study of developments in post-Kantian European philosophy.

PHI 4600 Contemporary Philosophy 6A MW (3) AS PHI
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHI 4700 American Philosophy 6A MW (3) AS PHI
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

PHI 4820 Chinese Philosophy (3) AS PHI
A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.

PHI 1103 Critical Thinking SS (3) AS PHI
Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.

PHI 1401 Science and Society 6A SS (3) AS PHI
This class teaches students to become a better "Scientific Citizen," i.e. to be able to better understand and participate in the process by which we come to conclusions about the natural and social world that matter to us as a society.

PHI 1600 Introduction to Ethics HP SS (3) AS PHI
A study of ethical theories, concepts, problems and methods.

PHI 2101 Introduction to Formal Logic 6A QM (3) AS PHI
An elementary study of prepositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

PHI 2630 Contemporary Moral Issues SS (3) AS PHI
Open to all students. A study of contemporary moral issues concerning racism, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

PHI 2631 Ethics and Business SS (3) AS PHI
An application of traditional ethical theories to contemporary business problems in business.

PHI 3404 Philosophy of Science (3) AS PHI
How is science different from other methods of inquiry about the world? What distinguishes science from pseudoscience? From religion? How do we test scientific theories? What are the factors that lead scientists to accept a theory?

PHI 3633 Biomedical Ethics (3) AS PHI
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

PHI 3636 Professional Ethics (3) AS PHI
An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

PHI 3640 Environmental Ethics SS (3) AS PHI
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

PHI 3700 Philosophy of Religion 6A SS (3) AS PHI
A study of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3905 Directed Study (1-4) AS PHI
An analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3930 Selected Topics (1-4) AS PHI
A selected topic course supervised by a faculty member.

PHI 4073 African Philosophy MW (3) AS PHI
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought.

PHI 4300 Theory of Knowledge 6A MW (3) AS PHI
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 4362 Philosophy of Mind 6A MW (3) AS PHI
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, and the problems of other minds, the physical basis for intelligence.

PHI 4363 Feminist Ethics MW (3) AS PHI
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others.

PHI 4670 Contemporary Ethical Theory (3) AS PHI
A survey of contemporary ethical theory, focusing both on the literature about the status of ethical theory and moral scepticism, moral nihilism, narrative ethics—and on specific types of theories—ontological theories, consequentialist theories, rights-based theories, virtue theories, and analytic ethics.

PHI 4800 Aesthetics 6A MW (3) AS PHI
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 4905 Directed Study (1-4) AS PHI
PR: CI. Approval slip from instructor required. Individual study directed by a faculty member.

PHI 4930 Selected Topics (1-3) AS PHI
PR: CI. Approval slip from instructor required. Selected topics according to the needs of the senior students.

PHI 5348 Philosophy of Capstone Seminar (3) AS PHI
PR: Junior or Senior standing; declared philosophy major. Exit course for philosophy majors. Topics will vary at instructor's discretion, but are expected to span conventional boundaries between the branches of philosophical inquiry.

PHI 5135 Symbolic Logic (3) AS PHI
PR: PHI 2101 or CI. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

PHI 5225 Philosophy of Language (3) AS PHI
PR: Eight hours of philosophy, major in linguistics, or CI. An examination of semantically, syntactically, 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. Seminar format.

PHI 5913 Research (1-4) AS PHI
PR: CI. Approval slip from instructor required. Individual research supervised by a faculty member.

PHI 5934 Selected Topics (1-3) AS PHI
PR: CI. Approval slip from instructor required. Selected topics according to the needs of the student.

PHM 3020 Philosophies of Love and Sex (3) AS PHI
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

PHM 3100 Social Philosophy 6A SS HP (3) AS PHI
An analysis of rival theories of social order and their philosophical foundations.

PHM 3400 Introduction to Philosophy of Law (3) AS PHI
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity.

PHM 4120 Major Black Thinkers MW (3) AS AFA
PR: Junior or Senior standing. Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

PHM 4331 Modern Political Philosophy 6A MW (3) AS PHI
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.

PHM 4340 Contemporary Political Philosophy 6A MW (3) AS PHI
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.
PHM 5125 Topics in Feminist Philosophy (3) AS PHI
A study of feminist philosophical approaches to epistemology, aesthetics and political philosophy. May also be taken for credit in Women’s Studies.

PHM 5126 Social Issues in Biomedical Ethics (3) AS PHI
An examination of the social and political issues arising from rapid changes in medicine and technology. Topics covered may include social issues related to the just distribution of health care, reproductive technologies, HIV and AIDS, eugenics, genetic testing, and related ethical relations.

PHP 3786 Existentialism 6A HP (3) AS PHI
A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.

PHP 4000 Plato 6A MW (3) AS PHI
The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic.

PHP 4010 Aristotle 6A MW (3) AS PHI
Study of Aristotle’s philosophy.

PHP 4410 Kant (3) AS PHI
Lecture and discussion of Kant’s philosophy, especially the Critique of Pure Reason.

PHP 4740 The Rationalists 6A MW (3) AS PHI
A careful study of the metaphysics and epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

PHP 4745 The Empiricists 6A MW (3) AS PHI
A careful study of the metaphysics and epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

PHP 4784 Analytical Philosophy 6A (3) AS PHI
A study devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.

PHP 4788 Philosophy of Marxism 6A MW (3) AS PHI
A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

PHT 5021 Professional Issues I (2) ME PHT
Foundations of systems thinking, decision making, professional expression, responsibility, and accountability (including legal/ethical concepts), culture and argumentation for the roles of the physical therapist. Learners will further develop their abilities to make legal and ethical decisions. The class will examine state laws governing the practice of physical therapy and related services. Restricted to majors.

PHT 5022 Professional Issues II (2) ME PHT
An introduction to critical injury and educator roles and responsibilities; explores the concepts of decision-making, evaluation of research, theories of learning, research and clinical pathways. Restricted to majors.

PHT 5023 Professional Issues III (3) ME PHT
Focus on legal, ethical, and professional responsibility and accountability of the physical therapist. Learners will further develop their abilities to make legal and ethical decisions. The class will examine state laws governing the practice of physical therapy and related services. Restricted to majors.

PHT 5171C Foundational Science I (3) ME PHT
Introduction to the peripheral neuromuscular, skeletal, integumentary, and circulatory systems in normal and pathological states. Includes the anatomy and physiology of bones, joints, skin, nerves, and blood vessels, as well as the response of these tissues to injury and their potential for healing. Restricted to majors.

PHT 5172C Foundational Science II (1) ME PHT
Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.

PHT 5184 Movement Science I (2) ME PHT
A basic introduction to movement science and its foundational principles from four different perspectives: biomechanics; kinesiology, exercise physiology; and motor control, learning and development. Restricted to majors. Repeatable for 2 cr.

PHT 5185 Movement Science II (3) ME PHT
PR: PHT 5184 Elaboration of movement science principles with emphasis on mechanisms, kinetic, functional anatomy, exercise physiology, histopathology, motor control and connective tissue properties. Restricted to majors. Repeatable for 3 cr.

PHT 5271 Patient/Client Management I (3) ME PHT
Introduction to patient/client management of individuals with musculoskeletal disorders involving the limbs. Restricted to majors.

PHT 5272 Patient/Client Management II (2) ME PHT
Application of principles of patient/client management to patients with cardiopulmonary disease or dysfunction and diabetes in order to identify and write plans of care for related movement dysfunction. Restricted to majors.

PHT 5273 Patient/Client Management III (3) ME PHT
Learners apply principles of patient/client management to patients with progressive, non-progressive diseases and injuries of the nervous system. Restricted to majors.

PHT 5275C Physical Therapy Science I (4) ME PHT
Introduction to physical therapy skills in examination, evaluation, and diagnosis for clients with uncomplicated musculoskeletal impairments involving the extremities. Emphasis on obtaining a history and performing physical therapy tests and measures leading to a differential diagnosis by application of principles of movement. Restricted to majors.

PHT 5276C Physical Therapy Science II (4) ME PHT
Introduction to physical therapy skills used in examination, evaluation, diagnosis of and intervention for clients with activity limitations associated with cardiovascular, hematological, or pulmonary disorders. Major emphasis on selecting, justifying, administering, and interpreting physiological responses to physical agents and therapeutic exercises. Restricted to majors.

PHT 5277C Physical Therapy Science III (3) ME PHT
Examination, evaluation, diagnosis, and intervention for movement-related problems secondary to impairments of the nervous system. Contemporary theories of motor development, motor learning and motor control will be introduced. Student knowledge will be demonstrated with clinical problem-solving scenarios. Restricted to majors.

PHT 5283C Physical Therapy Procedures (3) ME PHT
Introduction to selected physical therapy interventions, obtaining a patient history, and conducting a systems screen. Restricted to majors. Repeatable for 1 cr.

PHT 5316 Medical Management I (1) ME PHT
Introduction to medical diagnostics, pharmacological principles, and common orthopedic surgical procedures as components of medical management including repair of bone and soft tissue. Restricted to majors. Repeatable for 1 credit.

PHT 5380 Medical Management II (1) ME PHT
PR: PHT 5316 Seminar on the medical and surgical management; epidemiology; pathophysiology; pharmacology of injuries and diseases of the cardiopulmonary system including repair and regeneration. Restricted to majors. Repeatable for 1 credit.

PHT 5822 Clinical Education I (3) ME PHT
Initial clinical practice experience for the development of patient care skills. The course is graded Satisfactory/Unsatisfactory. Restricted to majors.

PHT 5906 Directed Independent Study (1-10) ME PHT
Directed independent stud, content to be decided. Restricted to majors.

PHT 5934 Special Topics I (1-10) ME PHT
Exploration of physical therapy practice issues. Topics may vary each semester the course is offered. A seminar and/or lab course. Restricted to majors. Not repeatable for credit.

PHT 5960 Clinical Proficiency and Problem Solving I (1) ME PHT
Practicum for student/client management of individuals with musculoskeletal related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

PHT 5961 Clinical Proficiency and Problem Solving II (1) ME PHT
PR: PHT 5960 Practicum for the synthesis of skills, knowledge, and values for management of individuals with cardiopulmonary and endocrine related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

PHY 2020 Conceptual Physics NS (3) AS PHY
No credit for Physics or Mathematics majors. A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today.

PHY 2048 General Physics NS I (3) AS PHY
PR: MAC 2281 or MAC 2311. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses. First semester of a two semester sequence of calculus-based general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) for physics majors and engineering students.

PHY 2048L General Physics I Laboratory (1) AS PHY
PR: MAC 2281 or MAC 2311. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053L and PHY 2048L courses.
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<td>Electricity and Magnetism II (3) AS PHY</td>
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<td>PHY 5973</td>
<td>Applications of Physics to Biology and Medicine II (4) AS PHY</td>
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First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students.

PHY 2049 General Physics II NS (3) AS PHY
PR: MAC 2282 or MAC 2312, PHY 2048. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses. Second semester of general physics and laboratory for physics majors and engineering students.

PHY 2053 General Physics I (3) AS PHY
PR: MAC 1140 or MAC 1114, or MAC 1147. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses. First semester of a two-semester sequence of non-calculus-based general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) for science students.

PHY 2054L General Physics I Laboratory (1) AS PHY
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses. Second semester of non-calculus-based general physics for science students.

PHY 2054 General Physics II NS (3) AS PHY
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses. Second semester of general physics lab for science students.

PHY 2055 General Physics II NS (3) AS PHY
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses. Second semester of general physics lab for science students.

PHY 3101 Modern Physics (3) AS PHY
PR: PHY 2049, MAC 2283 or MAC 2313. Special relativity. Reflection, refractive, dispersion, interference, diffraction, polarization, and laboratory.

PHY 3221 Great Themes in Physics 6A MW (3) AS PHY

PHY 4222 Mechanics II (3) AS PHY
PR: PHY 3221; CR: MAP 2302. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange’s and Hamilton’s equations; inertia tensor; general rotation of rigid bodies.

PHY 4234 Electricity and Magnetism II (3) AS PHY
PR: PHY 3323. Introduction to special relativity, magnetic fields and potentials, magnetic materials, and electromagnetic circuits. Maxwell’s equations and applications.

PHY 4523 Statistical Physics (3) AS PHY
PR: PHY 3101, senior status. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

PHY 4604 Introduction to Quantum Mechanics (3) AS PHY
PR: PHY 3101, or CI. Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter physics.

PHY 4744C Introduction to Electronics and Test Instrumentation (3) AS PHY
PR: PHY 3221. Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital and analog multimeters, etc.).

PHY 4823L Advanced Laboratory (3) AS PHY
PR: PHY 3822L. Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.

PHY 4905 Independent Study (1-3) AS PHY

PHY 4910 Undergraduate Research (1-4) AS PHY
PR: Senior or advanced junior standing and CC. S/U only. An individual investigation in the laboratory or library, or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement.

PHY 4930 Undergraduate Seminar (1) AS PHY
PR: Senior or advanced junior standing and CC. S/U only. An undergraduate physics majors must enroll in this course at least once. Regular attendance is required. This course introduces students to the research areas in the Physics Department.

PHY 4936 Selected Topics in Physics (1-6) AS PHY
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.

PHY 5720C Electronics for Research (3) AS PHY
A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital Ics, breadboarding techniques and electronics test instrumentation. Spring Semester.

PHY 5937 Selected Topics in Physics (1-4) AS PHY
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

PHY 5971 Mathematical Methods in Physics (3) AS PHY
PR: PHY 2049 or PHY 2054. First semester of a two-semester sequence on solving problems in General Physics I. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

PHY 5972 Problems in General Physics I (1) AS PHY
PR: PHY 2049 or PHY 2054. Second semester of a two-semester sequence on solving problems in General Physics I. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

PHY 5973 Problems in General Physics II (1) AS PHY
PR: PHY 2049 or PHY 2054. Second semester of a two-semester sequence on solving problems in General Physics II. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

PHY 4822 Mechanics II (3) AS PHY
PR: PHY 3221; CR: MAP 2302. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange’s and Hamilton’s equations; inertia tensor; general rotation of rigid bodies.

PHY 4324 Electricity and Magnetism II (3) AS PHY
PR: PHY 3323. Introduction to special relativity, magnetic fields and potentials, magnetic materials, and electromagnetic circuits. Maxwell’s equations and applications.

PHY 4523 Statistical Physics (3) AS PHY
PR: PHY 3101, senior status. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.
POS 2112 State and Local Government and Politics (3) AS POL
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 Introduction to Urban Politics and Government (3) AS POL
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3173 Southern Politics (3) AS POL
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 Florida Politics and Government (3) AS POL
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

POS 3283 Judicial Process and Politics (3) AS POL
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 Political Parties and Interest Groups (3) AS POL
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 Introduction to Law and Politics (3) AS POL
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

POS 3697 Environmental Law (3) AS POL
Examination of some of the major issues involving environmental law. Specialy, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. It will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

POS 3713 Empirical Political Analysis (3) AS POL
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

POS 3931 Selected Topics (3) AS POL
Selected topics in political science, with course content based upon student demand and instructor's interest.

POS 4204 Political Behavior, Public Opinion, and Elections (3) AS POL
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

POS 4413 The American Presidency 6A (3) AS POL
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; politics of the presidency.

POS 4424 The American Congress (3) AS POL
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

POS 4614 Constitutional Law I (3) AS POL
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

POS 4624 Constitutional Law II (3) AS POL
PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

POS 4693 Women and Law I (3) AS WST
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom law.

POS 4694 Women and Law II 6A MW (3) AS WST
PR: POS 4693 or CI. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men.

POS 4905 Independent Study (1-3) AS POL
PR: 3.0 average in Political Science and CI. S/U only. Specialized study determined by the student's needs and interests.

POS 4910 Individual Research (1-3) AS POL
PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an original research paper.
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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<td>PSY 3017</td>
<td>Psychological Science II</td>
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<td>PSY 2012</td>
<td>Introduction to Psychological Science</td>
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<td>PSC 2515</td>
<td>Energy and Humanity</td>
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<td>PSB 3444</td>
<td>Drugs and Behavior</td>
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<td>POT 4936</td>
<td>Selected Topics in Political Theory</td>
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<td>Modern Political Theory</td>
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**Course Descriptions**

**PSY 3017 Psychological Science II**
- **Prerequisites:** PSY 3017 and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

**PSY 4913 Research Methods in Psychology**
- **Prerequisites:** PSY 3017 with a grade of C or better or CI. This course covers the logic of experimental design, concept of control and the analysis of experimental data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures per two-hour lab.

**POT 4936 Selected Topics in Political Theory**
- **Prerequisites:** POT 3017 with a grade of C or better or CI. An opportunity to work with others in a seminar format, exploring specialized topics.
REA 1205 Advanced Reading (3) US REA
This course takes a broad array of reading strategies to help students enhance comprehension skills as well as develop the fundamentals of critical analysis through the application of a strategic-reflective reading model.

REA 1305 Reading Lab (1) US REA
The focus is on the development of a systematic approach for increasing reading comprehension, rate, and vocabulary as well as adjusting rate and technique to adapt to a variety of materials and purposes. Open to all students; repeatable up to 3 credits.

REA 1365 Advanced Learning Systems (1-4) AS REH
To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyzing task demands, and intentionally selecting effective strategies for each learning challenge.

REA 2105 Critical Reading and Writing 6A (3) US REA
This course helps students develop the fundamentals of reflective and critical reading and on effective analytical writing utilizing multiple sources from various disciplines. The course meets the criteria for Gordon Rule writing requirements.

REA 2505 Vocabulary (3) AS ENG
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.

REA 2604 Strategic Learning (1) US REA
For students in academic difficulty, this course introduces students to advanced learning system used to understand individual learning preferences, analyze task demands, and then intentionally select effective strategies for each learning challenge.

REA 2930 Selected Topics (1-4) US REA
Topics will vary to meet the needs of students. Will not be counted toward the English major.

RED 4310 Reading and Learning to Read (3) ED EDE
PR: Admission to College of Education. This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students' strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

RED 4511 Linking Literacy Assessment to Instruction (3) ED EDR
PR: RED 4310. This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students' strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

REE 3043 Real Estate Decision Making (3) BA FIN
PR: FIN 3403. Acquaints students with the range of knowledge required to engage in real estate decision-making in the United States. Integrates the institutional framework with which decisions are made, the elements of financial analysis, deal structuring and marketing, and the pricing, financing, and allocation of real property in the real estate markets.

REE 4303 Real Estate Investment Analysis (3) BA FIN
PR: FIN 4504. A comprehensive study of the determinants of the market and financial feasibility of the real estate investment decision. The development of market and site analyses, theories of urban development patterns, and the role of taxation will be studied, along with the application of analytical techniques for decision making.

REL 2210 Hebrew Bible/Old Testament (4) AS REL
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 2240 Introduction to the New Testament (4) AS REL
An introduction to the critical study of the New Testament in the context of Christian beginnings in the first century C.E. This will include readings from the Apocrypha, other Gospels, and letters.

REL 2300 Introduction to World Religions HP SS (4) AS REL
This course is an introduction to the world's major religions. Students are exposed to myths, rituals, history, primary beliefs, leaders, and other information germane to understanding each religion. Open to majors and non-majors.

REL 2306 Contemporary World Religions HP (4) AS REL
This course will explore the unity and diversity of religious traditions in our contemporary global context in order to understand the mutual interactions between religions and cultures. Emphasis will be placed on the role of religions in shaping human values with the goal of either creating or resolving social conflict. The impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.

REL 3003 Ancient Religions in Context (4) AS REL
Study of the religions in their cultural setting of the peoples of the Ancient Middle East and Mediterranean.

REL 3003 Introduction to Religious Studies (4) AS REL
This course introduces students to the academic study of religion. Religious thought and behavior are examined from a variety of
methodological perspectives. Restricted to majors and minors. Prerequisite: Introduction to Major Religious Texts (3) AS REL

REL 3014 Introduction to Major Religious Texts (3) AS REL

The course provides an introduction to the study of some of the foundational texts of selected religious traditions by focusing on reading and interpretative strategies in order to understand the central beliefs and practices presented in these texts.

REL 3101 Religion and Popular Culture SS HP (3) AS REL

An exploration and analysis of the relationship between religion and popular culture, which will include inquiry into the definition and meaning of both religion and popular culture, the impact of secularization on traditional religious systems, and the widely diverse expressions of religion in contemporary popular culture.

REL 3111 The Religious Quest in Contemporary Films SS HP (4) AS REL

This course will use contemporary films such as Gandhi, Malcolm X, the Long Walk Home, the Color Purple, the Leap of Faith, the Chosen, and Grand Canyon, to explore the personal and social dimensions of religion in modern secular societies, with an emphasis on issues of racism, sexism and human liberation and reconciliation.

REL 3114 Comedy, Tragedy, and Religion SS (3) AS REL

Examines the visions of life in comedy and tragedy, and relates both to Judaism, Christianity, and Zen Buddhism.

REL 3116 Religion and Contemporary American Holidays SS (3) AS REL

Introduces students to the academic study of religion through an exploration of issues and questions related to the character and function of holidays in contemporary America. Open to majors and nonmajors.

REL 3117 Religion and Contemporary American Sports SS (3) AS REL

This course explores the function of sports in America. It covers the history of sports; the status of American sports; and sports as religious events. The course is open to majors and nonmajors and is not repeatable for credit.

REL 3120 Religion in America (3) AS REL

To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglement and the concept of church/state separation.

REL 3131 New Religions in America (3) AS REL

A course designed to allow the student to survey the wide spectrum of contemporary sects and cults in America and learn what motivates their development.

REL 3132 Witchcraft and Paganism in America (3) AS REL

A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 3140 Religion, Culture, and Society (3) AS REL

Introductory scholarly survey of religion in its complex relationship to culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions. Open to non majors.

REL 3145 Women and Religion 6A (3) AS REL

Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them.

REL 3146 Womanist Vision in Religion MW (3) AS REL

This course examines the works of Black Womanist writers in religion for their contributions to and insights into the phenomena of religion in America and the world.

REL 3170 Religion, Ethics and Society Through Film 6A SS HP (4) AS REL

An in-depth analysis of contemporary social issues through contemporary films such as Wall Street and Crimes and Punishment, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of the ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

REL 3191 Life After Death MW (4) AS REL

An exploration of ideas about life after death and its relations to the development of the ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

REL 3280 Biblical Archaeology MW (3) AS REL

An in-depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities. Biblical history and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3303 Comparative Religion: Judaism and Islam MW (4) AS REL

This course is framed within the academic study of religion, and it does not concern itself with contemporary political difference in the Middle East. It treats as Islam the normative statements of the Qu’ran, and related traditions, and as Judaism the authoritative statements of the Torah, oral and written.

REL 3308 World Religions 6A HP SS (3) AS REL

World Religions gives students an overview of the major religions of the world from their origins through the modern period. Special attention is given to the analysis of myths, rituals, history, and other features of the religions.

REL 3318 Introduction to Chinese Religion AF SS (3) AS REL

The course is for majors and nonmajors, and may not be repeated for credit. The course introduces the history and present state of the religions and cultures in mainland China and the geographical areas in which the Chinese language is spoken.

REL 3330 Religions of South Asia AF (3) AS REL

All religions of the world came to India and all became Indian. What is this “Indian-ness” which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Bahai? Readings from classical texts and modern literature.

REL 3335 Gods and Goddesses of India (3) AS REL

This course explores the ways Hindus see, speak about, and encounter the Divine through an examination of the multitude of stories about the gods and goddesses and their various physical manifestations in the sacred geography of India.

REL 3340 Buddhism Truths and Paths (3) AS REL

This course provides an historical survey of Buddhist religion from its inception through today by focusing on the life and teachings of the historical Buddha, doctrinal development, the various denominations, and canon formation.

REL 3363 Introduction to Islam AF HP (3) AS REL

This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).

REL 3367 Islam in the Modern World 6A HP AF (3) AS REL

Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.

REL 3375 Issues in Caribbean Religions MW (3) AS REL

This course concentrates on major social and cultural issues in Caribbean religions mainly in Cuba, Haiti, Jamaica, and Trinidad, with emphasis on African-derived religions and Western and Eastern religious encounters.

REL 3380 Native American Religions (3) AS REL

Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

REL 3388 In Search of the Goddess AF SS (3) AS REL

This course explores Goddess religion/sacred Feminine, from prehistory, to the pagan Near East and Mediterranean, Western monotheistic religions, pluralistic religions of the East, and revivals of Goddess spirituality in contemporary Europe/N. America.

REL 3420 Contemporary Religious Thought (3) AS REL

An examination of the central ideas of recent religious thinkers; such as Gandhi, Martin Luther King, Jr., Elie Wiesel, Thich Nhat Hanh, Dorothy Day, Dorothee Soelle, Howard Thurman, Thomas Merton and others.

REL 3465 Religion and the Meaning of Life 6A MW (3) AS REL

What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.

REL 3500 History of Christianity 6A HP (4) AS REL

Historical development of Western Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

REL 3561 Roman Catholicism 6A MW (3) AS REL

An examination of the history, doctrine, and ethics of the Roman Catholic Church.

REL 3602 Classics of Judaism 6A MW (3) AS REL

PR: One course in Religious Studies. How to read the principal documents of Judaism beyond the Hebrew Bible, including the Mishnah and Talmud, with emphasis on Jewish philosophy, mysticism, and theology through the modern period.

REL 3607 Introduction to Judaism 6A SS HP AF (3) AS REL

An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>REL 3611</td>
<td>History of Judaism (4) AS REL</td>
<td>A study of the history of the religion of ancient Israel from the Second Temple period to the end of the second century C.E., seen against the background of its historical, geographical, political, social and spiritual setting.</td>
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<tr>
<td>REL 3613</td>
<td>Modern Judaism 6A MW LW (3) AS REL</td>
<td>A study of modern Jewish life and thought in the West, including the study of beliefs, practices, institutions, major thinkers, and intellectual trends.</td>
</tr>
<tr>
<td>REL 3801</td>
<td>History of Writing (2) AS REL</td>
<td>Study, in reasonable detail, of the history and evolution of writing within its societal context. We will stress the development of writing in Mesopotamia, Egypt, and the Mediterranean World, looking at the transition from oral to written literature and its impact on religion.</td>
</tr>
<tr>
<td>REL 3900</td>
<td>Directed Readings (1-4) AS REL</td>
<td>PR: CI. Individual guidance in concentrated reading on a selected topic.</td>
</tr>
<tr>
<td>REL 3936</td>
<td>Selected Topics (1-4) AS REL</td>
<td>Course contents depend on students’ needs.</td>
</tr>
<tr>
<td>REL 4113</td>
<td>The Hero and Religion 6A MW (3) AS REL</td>
<td>A study of the way in which embedded religious models help to fashion the representation of an artistic hero. The focus of the course will be on the relationship between the hero and the “other,” as differentiated by race, gender, ethnicity, or merely inner meaning.</td>
</tr>
<tr>
<td>REL 4133</td>
<td>Mormonism in America MW (3) AS REL</td>
<td>A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, beliefs, rituals, and practices, believers, recruitment, socialization, and organizations.</td>
</tr>
<tr>
<td>REL 4161</td>
<td>Religion, Technology and Society (3) AS REL</td>
<td>An exploration of the way in which religion and technology have interacted in Western civilization so as to both express and transform human values and identity. Special emphasis will be given to the value questions raised by modern technology.</td>
</tr>
<tr>
<td>REL 4171</td>
<td>Comparative Christian Ethics 6A MW (4) AS REL</td>
<td>PR: Jr. standing or CI. A survey of representative approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society, with an emphasis on issues of race and gender and of violence and non-violence.</td>
</tr>
<tr>
<td>REL 4193</td>
<td>Comparative Mysticism (4) AS REL</td>
<td>A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience in the writing of the mystics, East and West.</td>
</tr>
<tr>
<td>REL 4215</td>
<td>Ancient Israel and the Development of the Hebrew Bible 6A HP AF MW LW (3) AS REL</td>
<td>An exploration of the formation and composition of the Hebrew Bible in light of the religious, social, political, and historical developments in antiquity.</td>
</tr>
<tr>
<td>REL 4217</td>
<td>Who Wrote the Bible (Genesis-Kings) 6A MW LW (4) AS REL</td>
<td>A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of the Children of Israel in their Ancient Near Eastern context.</td>
</tr>
<tr>
<td>REL 4218</td>
<td>Women and the Bible 6A HP AF MW LW (3) AS REL</td>
<td>How the redactors of Genesis through 2 Kings viewed women; the role women played in the society of the time in which they are portrayed and in that of the redactors; and, an attempt to find the “women’s voices,” however muted, within the biblical text.</td>
</tr>
<tr>
<td>REL 4250</td>
<td>Jesus’ Life and Teachings (4) AS REL</td>
<td>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.</td>
</tr>
</tbody>
</table>

**334 USF Course Descriptions**

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problems associated with these coverages. Topics include commercial general liability, inland marine and transportation coverages, and multi peril contracts. Not limited to Finance majors.

RMI 4220 Casualty Insurance (3) BA FIN
PR: RMI 301. Course dealing with recognition of personal and business casualty risks and coverages that can be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include working conditions, public liability, auto liability, suretyship, and crime insurances. Not limited to Finance majors.

RUS 2221 Russian IV (4) AS WLE
PR: RUS 2220 or equivalent. Development of conversational skills. PR: Previous course in series or equivalent. Development of conversational skills.

RUS 4402 Advanced Russian Conversation & Composition I (4) AS WLE
PR: RUS 4241 or CI. Third year Russian.

RUS 4403 Advanced Russian Conversation & Composition II (4) AS WLE
PR: RUS 4241 or CI. Third year Russian.

RUS 4471 Advanced Overseas Study (1-6) AS WLE
Must be enrolled in the USF Summer Study in Moscow program. Three years Russian required. Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

RUS 4900 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

RUS 4905 Directed Study (1-3) AS WLE
Departmental approval required.

RUT 3110 Russian Classics in English 6A MW (3) AS WLE
Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky,陀思妥耶夫斯基, and Chekhov. Elective for all students in all departments.

RUT 3111 Twentieth-Century Russian Literature in English 6A MW LW (3) AS WLE
Masterpieces of 20th century Soviet literature in English. The major works of Bely, Olesha, Babel, Zamyatyn, Bulgakov, Pasternak, and Solzhenitsyn. Elective for all students in all departments.

SCE 4305 Communication Skills in the Science Classroom (3) EDE DN
Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.

SCE 4310 Teaching Elementary School Science (3) ED EDE
PR: Admission to College of Education and completion of General Distribution Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.

SCE 4320 Teaching Methods in Middle Grade Science (3) ED EDN
PR: Completion of 25 semester hours of Science or CC. Not designed for high school certification purposes. Survey techniques and materials unique to science, grades 5-9.

SCE 4330 Teaching Methods in the Secondary School-Sciences (3) ED EDN
PR: Completion of 26 hours in approved science areas, EDG 4620 or CP, and CC. Techniques and materials of instruction in secondary school sciences.

SCE 4863 Science, Technology, Society Interaction 6A MW (4) EDE DN
Acquire an historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS), (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.
crowding, privacy, territorial behavior, environmental design, and the ultimate impacts on victims and survivors and rescuers.

of prejudice, the manifestations of hatred in language, relationships, and the development of social and political policies for the prevention and amelioration of prejudice. Students study social psychology theory and research while working at an AIDS service organization consisting of 32 hours per week in the field with a total of 480 clock hours per semester.

PR: PSY 2012, PSY 3017, PSY 3213 Students study self, to group behavior, organizational design, ethics and teamwork. The potential of every individual to develop effective leadership skills is examined.

SLS 4274 Ethics and Power in Leadership (3) SS US STL
PR: SLS 2260, SLS 4272. Participants will delve into the nature of organizational dynamics, they will utilize concepts, generalizations, theories, and frames of reference to analyze organizations and leadership to understand and improve their functions.

SLS 4275 Theories of Leadership HP (3) US STL
PR: SLS 2260, SLS 4272. Focuses on historical and modern views of leadership. It is designed to assist students analyzing and understanding the historical, social, political aspects of leadership theories and styles as well as the application of leadership theories in settings.

SLS 4276 Images of Leadership in Print and Film (3) US STL
PR: SLS 2260, PR: SLS 4272. This course examines the historical development of leadership theory through contemporary times. Surveys literary and other media relevant to the role of the leader and to the development and application of leadership skills.

SOP 3742 Psychology of Women SS (3) AS WST
PR: SLS 2260, SLS 4272. Course reviews arguments for ethics in leadership as proposed by both contemporary and ancient leadership theories. It also examines theories of power and authority, and seeks answers to the apparent dilemmas through applied moral theory and psychology.

SOP 3742 Images of Leadership in Print and Film (3) US STL
PR: SLS 2260, PR: SLS 4272. This course examines the historical development of leadership theory through contemporary times. Surveys literary and other media relevant to the role of the leader and to the development and application of leadership skills.

SOP 4514 The Holocaust, Social Prejudice, and Morality (3) AS PSY
PR: PSY 3101; SOW 3102, SOW 3434, SOW 4522. All provisional major courses. Restricted to full Social Work majors; others by School permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical components of SOW 4341. Course includes both didactic and experiential learning components.

SOP 4714C Environmental Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better. PR or CR: SOW 3302, SOW 3210, SOW 3401, SOW 3401, SOW 3102, SOW 4343, SOW 4522. CR: SOW 4233, SOW 4510L. Restricted to full Social Work majors, others by School permission. Directed reading course emphasizing understanding feminist approaches to environment design, and pollution effects. Designed for both psychology majors and non-majors.
SPA 3653 Overview of Language Learning in Deaf Children (3) AS SOK
PR: Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SPA 3393C Selected Topics in Social Work (1-4) AS SOK
PR: CC. Restricted to Social Work majors, both graduate and undergraduate; other by School permission. Course is taken as an elective. Various title course will selectively expand specific social work content areas.

SPA 2612C Basic American Sign Language (4) AS CSD
PR: DPR. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and instruction of various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour of laboratory course work is included. Open to all majors.

SPA 2613C Intermediate American Sign Language (4) AS CSD
PR: SPA 2612C, DPR. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.

SPA 3002 Introduction to Disorders of Speech and Language SS (3) AS CSD
PR: Junior standing and DPR. The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

SPA 3004 Introduction to Language Development and Disorders (3) AS CSD
PR: SPA 3002, SPA 3112 or DPR. This course introduces theoretical concepts and research findings concerning the normal developmental process of language learning as a basis for differential diagnosis of developmental delay or disorder.

SPA 3011 Introduction to Speech Science (3) AS CSD
PR: SPA 3030, SPA 3011 and SPA 3112. Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

SPA 3030 Introduction to Hearing Science (3) AS CSD
PR: Junior standing, SPA 3101, SPA 3112, SPA 3310. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism (3) AS CSD
PR: Junior standing. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

SPA 3112C Applied Phonetics in Communication Disorders (3) AS CSD
PR: Junior standing. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

SPA 3310 Introduction to Disorders of Hearing (3) AS CSD
PR: SPA 3030 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

SPA 3633 American Deaf Culture (3) AS CSD
PR: SPA 4614C. An overview to American Deaf Culture, including its norms, values and belief systems. This course will also provide insight to deaf history in North America, and the importance of ASL to the culturally Deaf community.

SPA 3650 Fundamentals of Interpreting (3) AS CSD
PR: SPA 4615C. An overview of the profession of interpreting, its standards and settings is provided. It provides a basic practical experience component of interpreting and transliterating skills.

SPA 3653 Overview of Language Learning in Deaf Children (3) AS CSD
PR: Admission to ITT Program. CR: SPA 3653L. This course is restricted to majors only. Overview of language development of deaf children from infancy through young adulthood, including various theories of language development in the deaf and communication/language of the deaf assessment techniques, and interpreting skills relating to learning processes.

SPA 3653L Overview of Language Learning in Deaf Children Lab (1) AS CSD
PR: Admission to ITT Program. CR: SPA 3653. This course is restricted to majors only. An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in using different modes and languages, and the implications for interpreters.

SPA 3664 Language and Cognitive Processing Skills in English (4) AS CSD
PR: SPA 4615C; CR: SPA 3665. Students develop the cognitive processing and language skills within English that are preliminary steps for interpretation. It will develop student's ability to segment information to perform various cognitive tasks intralingually. For Majors only.

SPA 3665 Language and Cognitive Skills in ASL (4) AS CSD
PR: SPA 4615C; CR: SPA 3664. Students acquire cognitive processing and language development within ASL that are preliminary steps for performing simultaneous interpretation. This course also includes a service component by volunteering in various deaf communities. For majors only.

SPA 4200 American English Translation and from ASL (3) AS CSD
PR: SPA 3664, SPA 3665. A course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. For majors only.

SPA 3673 Introduction to Auditory Functions (3) AS CSD
PR: Admission to ITT Program. This course is restricted to majors. An overview of hearing science and speech science relating to the educational environment. This course oriented the student to the variables extent in oral-aural communication among children who have hearing impairment. It addresses techniques and methods of hearing measurement and amplification of sound as well as the interpreter's role in audiological evaluation and speech language therapy.

SPA 4000 Communication Disorders in the Public Schools (3) AS CSD
PR: DPR. (Non-major course only). An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders.

SPA 4050 Introduction to the Clinical Process MW (3) AS CSD
PR: SPA 3004 and SPA 3310. Observation and participation in speech-language pathology and audiology practicum in the University clinical laboratory. Ethical issues, multicultural concerns, and therapy techniques are stressed.

SPA 4201 Phonological Development and Disorders (3) AS CSD
PR: SPA 3004, SPA 3310. An examination of normal and deviant articulatory and phonological acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

SPA 4555 Counseling of Communicatively Handicapped and Family (3) AS CSD
PR: SPA 3001 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Differential diagnosis, principles of therapeutic intervention, and procedures for each child stressed.

SPA 4222 Fluency Disorders (3) AS CSD
PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, and evaluation of fluency disorders for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

SPA 4335 Sign Language Codes (3) AS CSD
PR: DPR. A review of the sign systems (SEE I, SEE II, L.O.V.E., and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.

SPA 4455 Counseling of Communicatively Handicapped and Family (3) AS CSD
PR: SPA 3001 and SPA 3310. Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.

SPA 4614C Advanced American Sign Language (4) AS CSD
PR: SPA 2613C, DPR. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.

SPA 4614 American Sign Language 4 (AS) AS CSD
PR: SPA 4614C. This course is a continuation of the study of American Sign Language (ASL) at the highly advanced level. It provides added emphasis on skill development of the language, including storytelling and poetry. One-hour laboratory course work is included.

SPA 4617C Structure of Sign Language (4) AS CSD
PR: SPA 2612C and SPA 2613C. This course is a basic introduction of semantic and linguistic consideration of American Sign Language (ASL). It includes aspects of phonology, morphology, syntax,
SPA 4624 Sign Language Codes (3) AS CSD
PR: CI. A review of the sign systems (SEE I, SEE II, LOVE, and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.

SPA 4626 Fundamentals of Fingerspelling (2) AS CSD
PR: DPR. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

SPA 4632 Nature and Needs of the Deaf and Hard of Hearing (3) AS CSD
A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.

SPA 4654 ASL to English Consecutive Interpretation (2) AS CSD
PR: SPA 3650, SPA 3666; CR: SPA 4655. Students consecutively interpret conversational discourse of planned and unplanned conversational language samples from ASL to English with delays of a few seconds after the source utterance is finished. For majors only.

SPA 4655 English to ASL Consecutive Interpretation (2) AS CSD
PR: SPA 3650, SPA 3666; CR: SPA 4654. Students consecutively interpret conversational discourse from English to ASL with delays from conversational language samples of various lengths ranging from single utterances to discourse units of several seconds duration. For majors only.

SPA 4656 Simultaneous Interpretation Monologic (4) AS CSD
PR: SPA 3650, SPA 3666. Students simultaneously interpret monologic talk from ASL and from English with target language beginning before the conclusion of the source utterance and continuing as the student listens to the conclusion source utterance. For majors only.

SPA 4658 Simultaneous Interpretation Dialogic (4) AS CSD
PR: SPA 4656. Students interpret dialogues from ASL to English and from English to ASL with the target language production beginning before the conclusion of the source utterance and continuing as the student listens to the conclusion source utterance. For majors only.

SPA 4685 Practicum: Interpreting in the Schools (1-8) AS CSD
This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

SPA 4685 Practicum: Interpreting in Schools (1-8) AS CSD
This course is restricted to ITT majors. This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

SPA 4691 Senior Seminar in Interpreter Training (3) AS CSD
PR: SPA 4656. Students expand upon previously learned topics and discuss factors that will affect their profession. Topics include: professional organization, certification, ethics and discourse best practices and will produce a professional portfolio. For majors only.

SPA 4906 Independent Study (1-10) AS CSD
Indep. Study will allow UG students to work independently under the supervision of Faculty members in the pursuit of content gained independently. The course is repeatable for a total of 10 credits. Majors only.

SPA 4910 Directed Research (1-10) AS CSD
Directed Research will allow the UC student to obtain supervised research experience under the direction of a Faculty member. The course is repeatable for a total of 10 credits. Majors only.

SPA 4930 Selected Topics (1-6) AS CSD
PR: DPR. Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 4962 Undergraduate Comprehensive Examination (1) AS CSD
PR: SPA 4656. This purpose of this course is to ensure that graduates from ITT are thoroughly prepared for entry into the job market. For majors only and repeatable only if necessary. It consists of 2 parts: individual meetings with an advisor and a comprehensive exam.

SPA 4970 Honors Thesis (1-10) AS CSD
The student, under the supervision of a Faculty member will formalize, conduct, analyze and report in writing a research project in the Department of Communication Sciences and Disorders. The course is repeatable for a total of 10 credits. Majors only.

SPA 5120 Psychoacoustics (3) AS CSD

SPA 5132 Instrumentation (3) AS CSD
PR: SPA 5120, SPA 6930, SPA 5506. Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical audiology research will be provided.

SPA 5133C Speech Science Instrumentation (3) AS CSD
PR: DPR or SPA 3011 or equivalent. Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology (2) AS CSD
Fundamental mathematical and statistical concepts; meaningful, practical, and interesting presentation. Students get a solid foundation in the mathematical and statistical concepts in CSD and apply those concepts to solve practical or clinical problems.

SPA 5204 Advanced Clinical Phonology (3) AS CSD
This course is restricted to ITT majors. This course provides an in-depth study of the physiological and psychological aspects of phonological disorders. Emphasis is placed on making a child's phonology more functional for communication purposes.

SPA 5303 Auditory Anatomy and Physiology (3) AS CSD
This course provides a comprehensive understanding of the physiological and psychological aspects of the auditory system and its psychoacoustic principles as they relate to clinical audiologic assessment and patient care.

SPA 5312 Peripheral and Central Auditory Tests (4) AS CSD
PR: DPR. The study of behavioral and electro physiologic clinical tests designed to assess the functions of the peripheral and the central auditory system. Tests that incorporate non-speech stimuli that these speech stimuli will be included.

SPA 5328 Rehabilitative Audiology for Adults (3) AS CSD

SPA 5403 Language-Learning in the School-Age Years (3) AS CSD
PR: SPA 4201 and DPR. Metalinguistic and metacognitive development are linked to the interactive demands of classroom and clinical discourse. Observational tools are applied to evaluation and intervention planning.

SPA 5506 Speech-Language Pathology and Audiology Practicum (1-8) AS CSD
PR: DPR. Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

SPA 5552 Diagnostic Principles and Practices (3) AS CSD
PR: Admission to the graduate program or DPR. The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

SPC 2541 Persuasion SS (3) AS SPE
Examines the role of persuasion in public and social life. Students will be introduced to key concepts and theories of persuasion from a variety of historical and contemporary perspectives. Students will use these concepts to create, analyze, and respond to persuasive messages.

SPC 2600 Public Speaking SS (3) AS SPE
The nature and basic principles of human communication; emphasis on organizing speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.

SPC 3212 Communication Theory (3) AS SPE
PR: SPC 2600 and COM 2000 each with a C or above or CI. The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.

SPC 3230 RP (3) AS SPE
PR: SPC 2600 and COM 2000 each with a C or above or CI. This course surveys the foundations and historical evolution of major concepts, issues, theories, and approaches to the study of rhetoric from Plato to recent contemporary theorists.
SPC 3301 Interpersonal Communication SS (3) AS SPE
A study of interpersonal communication in formally structured settings with emphasis on the understanding, description, and analysis of human communication.

SPC 3425 Group Communication 6A (3) AS SPE
PR: SPC 2600 and COM 2000 each with a C or above or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

SPC 3513 Argumentation and Debate (3) AS SPE
PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.

SPC 3602 Advanced Public Speaking (3) AS SPE
PR: SPC 2600 and COM 2000 each with a C or above or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

SPC 3631 Rhetoric of the Sixties HP (3) AS SPE
Survey of the rhetorics associated with the civil rights movement, the Great Society, the anti-Vietnam War movement, the counterculture, the black power movement, and the women’s movement.

SPC 3653 Popular Forms of Public Communication (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). Analysis of public communication with emphasis on various presentation forms.

SPC 3680 Rhetorical Analysis (3) AS SPE
PR: SPC 2600 and COM 2000 each with a C or above or CI. This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse.

SPC 3710 Communication and Cultural Diversity SS (3) AS SPE
Examination of communication and cultural diversity within the United States. Cultural groups include gender, racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generation, religious (e.g., Jewish) and physical ability.

SPC 4201 Oral Tradition MW (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). A study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

SPC 4305 Communicating Emotions 6A (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural memership influence them. Focus on attachment and loss in romantic, family and group relationships.

SPC 4310 Relationships on Film (3) AS SPE
PR: COM 2000 with C or above or consent of instructor (CI). Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotional, subjectivity, and betrayal.

SPC 4431 Family Communication (3) AS SPE
PR: SPC 3301 or COM 2000 with a C or above or CI. Examines the processes and functions of communication in family relationships. Examination of scholarly and popular literature on family structure, family systems, family development, and family stories. Analysis of families in fiction and cinema.

SPC 4632 Rhetoric and Social Change 6A MW (3) AS SPE
PR: SPC 3230 or SPC 3681. This course examines how social change is symbolized and motivated through the rhetorics of institutions, campaigns, social movements and individuals.

SPC 4683 Rhetorical Analysis of Mass Media (3) AS SPE
PR: SPC 3230 or SPC 3680. SPC 2600 and COM 2000 each with a C or above or CI. An introduction to the criticism of media forms and effects. Contemporary perspectives of the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.

SPC 4714 Communication, Culture and Community MW (3) AS SPE
Examines the relationships among culture, communication, institutions, and public and private life. Students explore the political implications of problems of contemporary forms of community through service in a volunteer organization.

SPC 4900 Directed Readings (1-3) AS SPE
PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI. Individualized reading with professor to complement undergraduate requirements.

SPC 4903 Honors Readings (1-3) AS SPE
PR: Admission to Communication Honors Program, COM 2000 AND SPC 2600 with grades of C or better. Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.

SPC 4905 Undergraduate Research (1-3) AS SPE
PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI. Individual investigations with faculty supervision.

SPC 4930 Selected Topics (1-3) AS SPE
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Variable topics.

SPC 4932 Senior Seminar in Communication (3) AS SPE
PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis.

SPC 5238 Topics in Rhetorical Analysis (3) AS SPE
Introduces a variety of critical perspectives applied to rhetoric in specialized contexts. Topics vary depending upon interest of students and faculty.

SPC 5930 Topics in Discourse (3) AS SPE
PR: CI. Variable topics course.

SPM 3256 Sport in Society: Contemporary Issues (3) ED EDP
A study of organized sport in society. Individuals will be able to understand issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports.

SPN 1120 Beginning Spanish I (4) AS WLE
CR: SPN 1120L. Not open to native or near-native speakers of Spanish. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 1120L Beginning Spanish I Laboratory (1) AS WLE
CR: SPN 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

SPN 1121 Beginning Spanish II (4) AS WLE
PR: SPN 1120 or equivalent. CR: SPN 1121L. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 1121L Beginning Spanish II Laboratory (1) AS WLE
CR: SPN 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

SPN 1130 Accelerated Spanish For Near-Native Speakers and Others (1-6) AS WLE
PR: CI. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.

SPN 2200 Spanish III (3) AS WLE
PR: SPN 1121 or equivalent. May NOT be taken concurrently with SPN 2201. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 2201 Spanish IV (3) AS WLE
PR: SPN 2200 or equivalent. May NOT be taken concurrently with SPN 2200. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 2240 Conversation I (3) AS WLE
PR: SPN 2201. Not open to native or near-native speakers of Spanish. Preparation of general conversations.

SPN 2241 Conversation II (3) AS WLE
PR: SPN 2240 or equivalent. Not open to native or near-native speakers of Spanish. To improve fluency in spoken Spanish.

SPN 3273 Overseas Study Others (1-6) AS WLE
PR: CI. Prior departmental approval and early registration are required. An intensive study-travel program in a Spanish-speaking country.
SPW 2340 Advanced Spanish for Native Speakers I (3) AS WLE
PR: SPN 2201 or equivalent. A study of vocabulary and business practices of the Spanish speaking world. Emphasis on their impact on business and international trade.

SPN 2201 Spanish Business and International Trade I (3) AS WLE
PR: SPN 2201 or equivalent. A study of vocabulary and business practices of the Spanish speaking world. Emphasis on their impact on business and international trade.

SPN 2341 Spanish for Business and International Trade II (3) AS WLE
PR: SPN 2340. May not count as Spanish major elective. Continuation of SPN 2340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but with limited or no training in the language. Emphasis on cultural differences within the Spanish speaking world, with an introduction to Spanish business and international trade.

SPN 3440 Spanish for Business and International Trade I (3) AS WLE
PR: SPN 2201 or equivalent. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.

SPN 3441 Spanish for Business and International Trade II (3) AS WLE
PR: SPN 3440 or equivalent. Open to Spanish and Business majors and minors. Continuation of SPN 3440. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.

SPN 3500 Spanish Civilization (3) AS WLE
PR: SPN 2201 or equivalent. The culture and civilization of Spain. Text and discussion in Spanish.

SPN 3520 Spanish American Civilization (3) AS WLE
PR: SPN 2201 or equivalent. Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 4301 Expository Writing (3) AS WLE
PR: SPN 3300 or SPN 2340. Practical training in business writing. Usage and stylistic devices.

SPN 4410 Advanced Conversation (3) AS WLE
PR: SPN 2201 or equivalent. Not open to native or near-native speakers of Spanish. Intensive practice in the formulation and expression of ideas in standard Spanish.

SPN 4470 Advanced Overseas Study (1-6) AS WLE

SPN 4700 Spanish Linguistics (3) AS WLE
PR: SPN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

SPN 5525 Modern Spanish American Civilization (3) AS WLE
PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic, and political trends. Text and discussion in Spanish.

SPN 5567 Modern Spanish Civilization (3) AS WLE
PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Text and discussions in Spanish.

SPT 3520 Spanish American Civilization (3) AS WLE
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPW 3030 Introduction to Hispanic Literary Studies (3) AS WLE
PR: SPN 3300 or SPN 2340. Prose fiction, drama, poetry, and essay; techniques of literary analysis.

SPW 4100 Survey of Spanish Literature I (3) AS WLE
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 Survey of Spanish Literature II (3) AS WLE
PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.

SPW 4130 Survey of Spanish American Literature I AF (3) AS WLE
PR: SPW 3030 or equivalent. Introduction to the study of Spanish American literature from the Discursive period to the Romantic period. Emphasis will be on foundational writers of history, descriptive and lyric poetry, theater, fiction and essay.
STA 4760 Economics USA: Principles of Economics for Teachers (3) ED EDW
S/U only. A television course focusing on content and teaching methodology related to macro/micro economic principles.

STA 4936 Senior Seminar in Social Science Education (2) ED EDW
PR: Senior standing; CR: SSE 4940. Synthesis of teacher candidate's courses and preparation for the professional interview and application process.

STA 4400 Internship in Social Science Education (1-12) ED EDW
CR: SSE 4936. S/U only. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 Semester hours.

STA 5331 Foundations, Curriculum & Instruction of Social Science Education (3) ED
Study social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s) appropriate to middle and secondary school levels demonstrating command of the course content.

STA 5332 Methods & Strategies in Social Science Education (3) ED EDI
Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.

STA 5641 Reading and Basic Skills in the Content Area (3) ED EDI
Reading skills and the other basic skills as applied to the social sciences are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.

STA 5644 Economic Decision-Making for Teachers (3) ED EDW
PR: Admission to College of Education or DPR. Provides teachers (K-12) with content related to the operation of businesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs.

STA 1022 Basic Statistics 6AQM (3) AS MTH
PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. No credit for Mathematics Majors. Descriptive statistics, basic probability principles, discrete and continuous probability distributions: binomial, Poisson, uniform, normal, t, chi-square and F; point estimation, confidence limits, hypothesis testing, correlation analysis and linear regression. Emphasis on applications to social sciences, life sciences, physical sciences, engineering and business.

STA 2122 Social Science Statistics 6AQM (3) AS ISS
Descriptive and inferential statistics - through ANOVA, correlation-regression, chi-square and non-parametrics. The course presents statistics with the view that numbers are a limited, but important aspect of understanding the world. Draws concepts and examples from a wide range of disciplines.

STA 3024 Introductory Statistics II 6AQM (3) AS MTH
PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares. Split Plots, incomplete designs; distribution-free methods.

STA 4321 Essentials of Statistics 6AQM (3) AS MTH

STA 4442 Introduction to Probability 6AQM (3) AS MTH
PR: MAC 2313. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, limit theorems.
SYO 3700 Racial and Ethnic Relations SS HP (3) AS SOC
Comparative study of inter-racial relations, attitudes, and modes of adjustment in various areas of the world.

SYO 4410 Urban Sociology (3) AS SOC
The social structure of the community in modern industrial societies. Analysis of community change.

SYO 4411 Urban Life (3) AS SOC
PR: SYG 2000 This course provides a number of insights into how living in cities has changed throughout history, how it varies culturally, and how it has been theorized in sociology.

SYO 4800 Gender and Society (3) AS SOC
Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meaning, and consequences of gender differences, interpersonal relationships, and institutional participation.

SYG 2000 Introduction to Sociology SS (3) AS SOC
An introduction to sociological perspectives and methods and the basic areas of sociological interests such as socialization, gender, race and ethnic relations, deviance, social control, and social stratification. Required for Sociology majors and minor.

SYG 2412 Marriage (3) AS SOC
Social policies and personal factors relating to success and failure in mate selection and marriage. Does not count for sociology major credit.

SYG 3011 Social Problems Through Film (3) AS SOC
PR: SYG 2000 or SYG 2010. Examines social problems through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems in a comparative, international perspective.

SYG 3235 Latina Lives 6A AF LW (3) AS SOC
PR: SYG 2000 or SYG 2010. An exploration of the experiences of Latinas in the United States. Uncover and examine such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.

SYO 3120 Sociology of Families (3) AS SOC
With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.

SYO 3200 Sociology of Religion (3) AS SOC
PR: SYG 2000 or CI. An examination of the meanings of religion lived in experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.

SYO 3500 Social Organization (3) AS SOC
PR: SYG 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SYO 3530 Social Inequalities in a Global Society (3) AS SOC
Introduction to the major concepts and theories used to explain inequality. The topics of race, gender, and sexual orientation will be treated in relation to class, rather than as a parallel dimension of stratification.

SYO 4250 Sociology of Education (3) AS SOC
PR: SYG 2000 Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems.

SYO 4300 Political Sociology (3) AS SOC
PR: SYG 2000 or CI. An examination of the social factors that affect governmental and political behavior.

SYO 4370 Occupations and Professions (3) AS SOC
PR: SYG 2000 or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on the processes of professionalizing service occupations like police work, business management, public administration and social work.

SYO 4400 Medical Sociology (3) AS SOC
PR: SYG 2000 or CI. The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.

SYO 4430 Disability and Society MW (3) AS SOC
PR: SYG 2000 or CI. Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.

SYO 5365 Industrial Sociology (3) AS SOC
SYO 4300 Social Psychology SS (3) AS SOC
An exploration of the social forces that help shape individual perceptions, behaviors, and personality. The study of ways individuals develop identity and self-worth.

SYP 3006 Constructing Social Problems (3) AS SOC
Examination of how activists, media, politicians, and scientists construct public images of social problems; analysis of the process of forming social policy and how public images of social problems shape the characteristics of social service agencies.

SYP 3060 Sociology of Sexualities (3) AS SOC
Explores the interactions, among and between people, and institutions that form the boundaries through which sexualities are understood in the United States. Addresses interactions with and within medical and religious institutions, racial/ethnic cultures, families and popular culture.

SYP 3562 Family Violence (3) AS SOC
An exploration of the complexity of the causes and consequences of physical and emotional violence among family members. Topics include the meanings and behaviors of violence, the process of help-seeking, and social interventions for offenders and victims.

SYP 4012 Emotions in Society (3) AS SOC
PR: SYG 2000 or SYG 2010. Examines the theories, concepts, and larger social contexts of emotions, and investigates sociological research on feelings such as pride and shame: love, friendship and sympathy; sadness and depression; grief and loss.

SYP 4111 Identity and Community (3) AS SOC
This course is a sociological examination of the meanings of identity in the post-modern era. Topics will include the characteristics of identity at the levels of individuals, institutions, culture, and the processes of identity construction and change.

SYP 4420 Consumer Culture 6A MW LW (3) AS SOC
PR: SYG 2000 or CI. The exploration of how Americans’ purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.

SYP 4510 Sociological Aspects of Deviance (3) AS SOC
The examination of the social construction of deviance: how deviance is defined, implications of deviance designation. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.

SYP 4530 Sociology of Juvenile Delinquency (3) AS SOC
Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.

SYP 4550 Drugs and Society (3) AS SOC
PR: SYG 2000 or SYG 2010. Explores the social construction of substance use in the United States. Examines individual users and the popular perspectives on the causes of substance use and abuse such as the medical, psychoanalytic, and sociological models.

SYP 4640 Leisure in Society (3) AS SOC
Sociological examination of leisure in the United States and other countries. Topics include changing leisure time patterns, relationships between leisure and work, personality, family, community, subcultures, religion, and social class.

SYP 4650 Sport in Society (3) AS SOC
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 leisure society.

TAX 4001 Concepts of Federal Income Taxation (3) BA ACC
PR: ACG 3103 and ACG 3341 with a grade of “C” or better (not C-). Focuses on the process of professionalizing service occupations like police work, business management, public administration and social work.

TAX 5015 Federal Taxation of Business Entities (3) BA ACC
PR: CI. 4001 with a grade of “C” or better (not C-). Focuses on the process of professionalizing service occupations like police work, business management, public administration and social work.

TAX 5005 Taxation of Business Entities (3) BA ACC
Focuses on the federal taxation of business entities, including income tax laws, business tax research, preparation of basic tax returns and exploration of tax policy issues.
learning. Encourages critical thinking and reflection about theatre as a part of society. Restricted to non-theatre majors.

THE 2020 Introduction to Theatre (3) VP TAR
An introduction to the art of theatre as part of the larger context of the nature of art itself. The approach will be both chronological and cross-cultural. Required of all theatre majors.

THE 2252 Great Performances on Film FA (3) VP TAR
This class traces the evolution of acting styles, from Lillian Gish to Samuel L. Jackson and beyond, focusing on the analysis of performance style and technique, the history of film, and the social and political environment they parallel. No prerequisite.

THE 2305 Script Analysis (3) VP TAR
PR: Sophomore standing. THE 2020. This course teaches theatre students the techniques of close reading of dramatic texts.

THE 3110 Theatre History I MW (3) VP TAR
PR: Sophomore standing. THE 2020. The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing. Normally fifteen plays will be read. Required of all theatre majors. Open to upper division non-majors.

THE 3112 Theatre History II MW (3) VP TAR
PR: Sophomore standing. THE 2020. A study of Theatre History in more detail as a companion to Theatre History I. This course and the companion Theatre History I will offer the opportunity for more careful study and emphasis on particular aspects of cross-cultural theatre in context.

THE 4174 New British Theatre and Drama 6A MW LW (3) VP TAR
PR: THE 2305 and Junior Standing. A study of contemporary theatrical practice and key dramatic texts in the British Isles. This course is restricted to majors.

THE 4180 Theatre Origins 6A MW LW (3) VP TAR

THE 4264 History Of Costume (3) VP TAR
PR: Sophomore standing. Open to upper level non-majors with CI. A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the design track/costume.)

THE 4266 Architecture And Decor (3) VP TAR
PR: Sophomore standing. Open to upper level non-majors with CI. A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.)

THE 4320 Theatre of Myth and Ritual/Northern European (950-1600) & Oriental (400-1200) 6A MW (3) VP TAR
PR: THE 3110 or THE 3111. A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the design track/costume.)

THE 4330 Shakespeare for The Theatre 6A MW LW (3) VP TAR
PR: THE 2305. A close study of selected plays with special emphasis on their performance values. Web-based version open to non-majors with CI; campus based version restricted to majors.

THE 4360 The 19th Century Theatre Revolution 6A LW (3) VP TAR
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity.

THE 4401 American Drama 6A MW LW (3) VP TAR
PR: THE 2305 and Junior Standing. A course in the function of the script for the theatre artist treating materials in the American Theatre. This class is restricted to majors only.

THE 4434 Caribbean Theatre 6A MW LW (3) VP TAR
PR: THE 2305 or THE 3111. Open to upper level non-majors with CI. This course is a study of plays and popular theatrical forms of the Caribbean. The student will investigate the social and political forces that shape the culture of the Caribbean, the residual effects of the colonialism and the turbulence of independence as expressed in the dramatic art and theatre of the English-speaking West Indies.

THE 4435 Theatre of Pluralism 6A MW LW (3) VP TAR
PR: THE 3111. Open to upper level non-majors with CI. The practice of theatre as it reflects cultural heritage, gender, race and sexual orientation. Study of contemporary scripts, critical and artistic statements.

THE 4442 Comedy of The Classic And Neo-Classic Stage 6A LW (3) VP TAR
PR: THE 3110 or THE 3111. A study of comedic function in scripts from Greek and Roman, Restoration and French Neoclassic of the late 17th century and other plays from the late 18th and late 19th centuries which reflect similar characteristics.

THE 4480 Drama-Special Topics (3) VP TAR
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists.

THE 4562 Contemporary Performance Theory 6A MW LW (3) VP TAR

THE 4593 Honors Seminar (2) VP TAR
Enrollment limited to upper level majors who have been formally admitted to the department honors program. Not available S/U. Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.

THE 4594 Honors Practicum (3) VP TAR
PR: THE 4593. Honors curriculum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary hill.

THE 4595 Honors Thesis (1-3) VP TAR
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

THE 4760 Methods of Teaching Theatre for Adolescents (3) VP EDD
Methods of effective drama and theatre instruction in middle school, junior and high schools, recreation centers, community, and professional theatre. Prerequisite: permission of the department.

THE 4905 Directed Studies (1-4) VP TAR
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 4930 Selected Topics In Theatre (1-8) VP TAR
PR: CI. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format.

THE 5099 Directed Studies (1-6) VP TAR
PR: CI and CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

TPA 2240 Workshop In Stage Makeup  (1) VP TAR
PR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L. Open to non-majors.

TPA 2250 Workshop In Stage Makeup  (1) VP TAR
PR: TPA 2200 and TPA 2290L. Open to non-majors.

TPA 2260 Workshop In Stage Makeup  (1) VP TAR
PR: TPA 2200 or CI. A practical laboratory involving the pre-production and performance preparation of make-up for the stage. Open to non-majors. Required of Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2291L. Open to non-majors.

TPA 2290 Technical Theatre Lab I (1) VP TAR
CR: TPA 2220L or CI. A practical laboratory involving preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.

TPA 2291 Technical Theatre Lab I (1) VP TAR
CR: TPA 2220L or CI. A practical laboratory involving the preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.

TPA 2292 Production Involvement I (1) VP TAR
PR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following
the students completion of a PI request form, available in the Theatre Office, and enrollment in this course.

TPA 4013 Design Studio III (3) VP TAR
PR: TPA 4012. This course will include studio design project activities in an individual's selected primary and secondary areas of costume, lighting, and/or scenic design. The course will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

TPA 4077 Scene Painting (2) VP TAR
PR: TPA 3007. Open to upper level non-majors with CI. A practical course in scenic painting: media and application.

TPA 4273 Stage Properties: Techniques And Materials Studio (2) VP TAR
PR: TPA 3007. Open to upper level non-majors with CI. Demonstration of production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

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

TPP 2190 Studio Theatre Performance I (1) VP TAR
PR: TPP 2110, THE 2020. A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

TPP 3121 Improvisation I (3) VP TAR
PR: TPP 2110. An intensive study in improvisation as an enhancement of the actor's skill. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity.

TPP 3155 Scene Study I (3) VP TAR
PR: Audition and all core 2000 level courses. Identify and investigate the fundamental elements of acting as applied to scene exploration, rehearsal, and performance.

TPP 3230 Laboratory Workshop In Performance (3) VP TAR
PR: Audition and TPP 2110. A laboratory course in various disciplines or systems and understanding the body's motive powers, with focus on their use for the stage performer.

TPP 3233 Special Skills In Movement (4) VP TAR
PR: TPP 2110. A practical laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

TPP 3265 Sound For The Stage (3) VP TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects.

TPP 3384 Puppetry Performance And Production (4) VP TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. The creation, building, rehearsal, and performance of plays for puppet theatre.

TPP 4012 Design Studio II (3) VP TAR
PR: TPA 4011. This course will include studio design project activities in the areas of costume, lighting, and scenic design. The course will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

TPP 4140 Styles Of Acting (3) VP TAR
PR: TPP 4180 and audition with CI. Examination of the actor's craft and skills needed to fulfill the demands of classical theatre forms.
Spiral curves, superelevations and earthwork analysis; drainage, surface transportation systems; horizontal and vertical alignments. PR: TTE 4004. Techniques for the geometric route design of planning and economics.

Flow theory and queuing, capacity and signalization; transportation kinematics, human factors and minimum design standards; traffic characteristics, capacities, and functional classifications; vehicle and pedestrian operations. PR: EGN 3321. Principles of surface transportation system transportation interacts with the economy, the environment and transportation and its impacts on society. It explores how this course provides a multidisciplinary introduction to transportation and its impacts on society. It explores how transportation interacts with the economy, the environment and the social and political nature of society.

Transportation Planning and Economics (3) EN EGX
PR: TTE 4004 or equivalent. Traffics models, intersection analysis, capacity data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

Transportation Planning and Economics (3) EN EGX
PR: College Algebra & CI. Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, traffic generation from different land use and transportation alternatives.

City Planning and Community Development (3) AS
PR: EN 1051 or EN 1052. The social, political, and economic forces that shape the city. Urban design and planning as a process of formulating, evaluating, and implementing policies and programs aimed at the production of environments that meet the needs of human beings.

An interdisciplinary introduction to the process of urbanization in the United States and the diverse communities it has created. Study of the Tampa Bay region is emphasized.

An interdisciplinary introduction to the process of urbanization in the United States and the diverse communities it has created. Study of the Tampa Bay region is emphasized.

Visual Communication Practicum (1) AS COM
PR: MMC 2100 and MMC 3602. Survey of visual communication theory, techniques and contemporary application in the visual media. Critical examination of visual communication in newspapers, magazines, television, motion pictures and new media.

Survey of major issues relevant to the female experience. The roles, ideas, as well as origins of Western attitudes toward relation (focusing primarily on Western Europe). Examines women's lives, roles and especially human sexuality. Sources of beliefs and attitudes about sex, including sex roles and especially human sexuality. Sources of beliefs and attitudes about sex, including sex roles and especially human sexuality.

Introduction to urban studies (3) AS ISS

Methodology of Teaching English Overseas (3) AS WLE
PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.

ESOL Strategies for Content Area Teachers (3) AS WLE
Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.

Methods of Teaching English As A Second Language (3) AS WLE
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

ESOL Curriculum and Instruction (3) AS WLE
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

Language Testing (3) AS WLE
PR: LNS 5700. Lecture course on cultural issues in Teaching English as a Second/Foreign language.

Cross-Cultural Issues in ESL (3) AS WLE
PR: TSL 5371. Lecture course on testing English as a second/foreign language.

Cross-Cultural Issues in ESL (3) AS WLE
PR: TSL 5371. Lecture course on cultural issues in Teaching English as a Second/Foreign language.

Transportation and Society (3) EN EGX
This course provides a multidisciplinary introduction to transportation and its impacts on society. It explores how transportation interacts with the economy, the environment and the social and political nature of society.

Transportation Engineering I (3) EN EGX
PR: EGN 3321. Principles of transportation system development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.

Transportation Engineering II (3) EN EGX
PR: TTE 4004. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments, Spiral curves, superelevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; night-of-attack and Environmental Impact Statement design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.
gender stereotypes, to reduce harassment, poverty, violence and human rights violations; to enhance health, safety and efficacy and to confront barriers in education, the media and the criminal justice system.

WST 3412 Women in the Developing World (3) AS WST
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)

WST 3620 Men and Masculinity (3) AS WST
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning and alternatives to masculine sex role models.

WST 4262 Literature by Women of Color in the Diaspora 6A LW
WST 4561 Contemporary Feminist Theory (3) AS WST
A study of feminist critiques of American women’s experiences and status, and their implications for women’s lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.

WST 4350 Women and Science MW (3) AS WST
A study of feminist critiques of American women’s experiences and status, and their implications for women’s lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.

WST 4320 The Politics of Women’s Health (3) AS WST
Explores current issues and concerns in the conceptualization and delivery of health information and health care for women from a feminist perspective, with a special emphasis on ways in which we can influence the health care system.

WST 4335 Women and Film (3) AS WST
A study of representation of women in films and the responses of feminist film theorists and filmmakers to these representations.

WST 4350 Women and Science MW (3) AS WST
An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.

WST 4410 Postcolonial Women Writers (3) AS WST
Will not be counted toward the English major. Introduces the literature of women from various anglophone countries in Africa, the Caribbean, and South Asia; some U.S. women will be included to represent a third world diasporic consciousness.

WST 4522 Classics in Feminist Theory MW (3) AS WST
A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement.

WST 4561 Contemporary Feminist Theory (3) AS WST
PR: Completion of one upper division Women’s Studies course. An exploration to an exploration of a wide range of current feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.

WST 4910 Directed Readings (1-3) AS WST
PR: Registration requires instructor’s written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest.

WST 4910 Directed Research (1-3) AS WST
PR: Registration requires written contract signed by student and instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest.

WST 4930 Selected Topics (1-4) AS WST
Study in special areas such as Women and Work, Reproductive Law, Women and Health.

WST 4935 Seminar in Women's Studies (3) AS WST
PR: Women’s Studies Major and 24 credit hours in Women’s Studies. Recognizing the interplay between personal connections and intellectual experience, this capstone course is designed to focus on topics related to women’s studies and facilitate linking student learning experience to future plans.

WST 5308 Feminist Spirituality (3) AS WST
Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women’s experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca.

WST 5925 Internship in Women’s Studies (3) AS WST
PR: Must have completed Comprehensive Exam. Majors Only. All required courses in MA program, CC. Student placement in approved intern setting for a minimum of 150 hours of supervised experience. S/U. Department Approval Required.

WST 5934 Selected Topics (1-4) AS WST
PR: DPR. Study of current research methods and scholarship on women from a multidisciplinary perspective.

WST 5940 Internship in Women’s Studies (3-6) AS WST
PR: Majors only. All required courses in MA program, CC. Permit. Student placement in approved intern setting for a minimum of 240 hours of supervised experience. S/U only.

YOR 1120 Yoruba I (4) AS WLE
This course is designed to familiarize students with modern Yoruba and to develop skills in reading/writing, speaking, and understanding spoken Yoruba. Pronunciation in Yoruba and achieving basic communicative competence in the language are among the skills to be attained in the course.

ZOO 2363 Vertebrate Zoology (3) AS BIO

ZOO 3205C Advanced Invertebrate Zoology (4) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. An introduction to the major invertebrate groups, with emphasis on local forms. Fieldwork required. Lecture and Laboratory.

ZOO 3713C Comparative Vertebrate Anatomy (4) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.

ZOO 4233 Parasitology (4) AS BIO
PR: BSC 2010, BSC 2010L and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lecture and laboratory.

ZOO 4512 Sociobiology MW (3) AS BIO
This course is restricted to seniors. Not for major’s credit. An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution.

ZOO 4513 Animal Behaviour AS BIO
PR: PCB 3023 or PCB 3043 or PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. The study of cellular and tissue organization as the basis of function in the human body. Functional morphology in normal and diseased states will be emphasized using an organ system approach.

ZOO 4564 Introduction to Marine Animal Ecology AS BIO
PR: Senior or GS in Biology; ZOO 2701C, CI. PCB 4674 is suggested. Evolution, systematics, structure, behavior, physiology, and ecology of fishes.

ZOO 456L Laboratory of Ichthyology Lab (1-3) AS BIO
CR/PR: ZOO 5456. Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

ZOO 5463 Animal Embryology (4) AS BIO
PR: PCB 3023 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. Structural and functional events involved in differentiation and morphogenesis. Lec.-Lab.

ZOO 4753C Human Histology and Histopathology (4) AS BIO
PR: PCB 3023, PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.

ZOO 4603C Animal Embryology (4) AS BIO
PR: PCB 3023 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. Structural and functional events involved in differentiation and morphogenesis. Lec.-Lab.

ZOO 4753C Human Histology and Histopathology (4) AS BIO
PR: PCB 3023, PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. The study of cellular and tissue organization as the basis of function in the human body. Functional morphology in normal and diseased states will be emphasized using an organ system approach.

ZOO 5456 Ichthyology Laboratory (1-3) AS BIO
PR: Senior or GS in Biology; ZOO 2701C, CI. PCB 4674 is suggested. Evolution, systematics, structure, behavior, physiology, and ecology of fishes.