ACG 2011 Principles of Financial Accounting (3) BA ACC
Study 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 2011 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 CBA requirements. Not available for credit for Business majors. The study of the uses of accounting data internally by managers in planning and controlling the business affairs of organizations.

ACG 3103 Intermediate Financial Accounting I (3) BA ACC
PR: ACG 2021. Theory and methodology underlying financial reporting, including the impact of historical cost, revenues, and expenses on financial statements.

ACG 3113 Intermediate Financial Accounting II (3) BA ACC
PR: ACG 3103 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 or ACG 3103. Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets.

ACG 3401 Accounting Information Systems (3) BA ACC
PR: ACG 2021 and CGS 2100. Students who complete this course will not receive credit for ACG 4621. This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with emphasis added 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-). Theory 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 3341 with a grade of “C” or better (not C-). Application of 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 process from the perspective of public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

ACG 4642 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. Individuals may 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 Accounting for business combinations, preparation of consolidated financial statements, intercompany relationships, foreign operations and transactions, partnerships.

ACG 5501 Governmental/Not-For-Profit 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 the 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 3000 Introduction to Advertising (3) AS COM
PR: MMC 2100 and MMC 3002. A 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 Copywriting (3) AS COM
PR: ADV 3000 and ECO 1000. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, specialty items, and interactive electronic media.

ADV 3103 Radio-Television Advertising (3) AS COM
PR: ADV 3000. 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 3000 (for advertising sequence 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 3000 and ECO 1000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

ADV 3501 Advertising Research (3) AS COM
PR: ADV 3000. 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 3000 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 4600 Advertising Management (3) AS COM
PR: ADV 3000, 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 4800 Advertising Campaigns (3) AS COM
PR: ADV 3101, ADV 3300, ADV 3501, ECO 1000, and MAR 3203. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, advertisement planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.

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 academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora] 6A AF (3) AFA
Fundamental perspectives on the nature and significance of the Black Experience in Africa and black communities in the Americas.

AFA 4150 Africa and the United States 6A SS HP AF (3) AS INT
Principles of the historical and current political, economic, and cultural relations between the United States and Africa.

AFA 4313 Black English MW (3) AS AFA
PR: Junior or Senior standing. This course focuses on linguistic patterns among African American English speakers in the U.S., South and Central America, and the Caribbean. It examines language in relation to issues of domination, social stratification, economics and political empowerment.

AFA 4333 The African Diaspora: Blacks in the Construction of the Americas MW (3) AS AFA
PR: Junior or Senior standing. This course will examine the historical and geographical distribution of Africans in the diaspora and the political and economic roles they have played in the
**AFR 2000 Enhanced Physical Fitness Training** (0) US AFR
- An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience.

**AFR 350 African American Community Research** (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.

**AFR 4500 Slavery in the Americas and the Caribbean** (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.

**AFR 4500 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.

**AFR 4900 Directed Readings** (1-3) AS AFA
- CR: Independent readings in a particular area of African and American Studies, selected by the faculty advisor and instructor.

**AFR 4931 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.

**AFR 5935 Issues in Africana Studies** (1-4) AS AFA
- Variable topics 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 prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, and documents) in reconstructing the African past.

**AFH 3200 African History since 1850 HP AF (3) AS HTY**
- Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and post-independence problems of nation building and economic development.

**AFR 4013 The Air Force Today: Organization And Doctrine** (1) US AFR
- Introduction to the Air Force in the contemporary world through a study of its total force structure and mission.

**AFR 4120 The Air Force Today: Structure And Roles** (1) US AFR
- A study of the strategic offensive and defensive forces, general purpose forces, and aerospace support forces that make up the Air Force of today.

**AFR 2000 Enhanced Physical Fitness Training** (0) US AFR
- Required of all students in AFR 2000-, 3000-, and 4000-level classes. It meets once 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** (0) US AFR
- Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. The course takes an interdisciplinary approach. The course is not restricted to majors and is not repeatable for credit.

**AFR 2310 The Evolution of USAF Aerospace Power Part I** (1) US AFR

**AFR 2140 The Evolution of USAF Aerospace Power Part II** (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 as 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 (officership). 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 communication processes.

**AFR 4201 National Security Affairs & Preparation for Active Duty Part I** (3) US AFR
- CR: AFR 2000, AFR 2001. A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include: societal attitudes toward the military and the role of the professional military leader-manager in a democratic society.

**AFR 4211 National Security Affairs & Preparation for Active Duty Part II** (3) US AFR
- CR: AFR 2000, AFR 2001. A continuation of the study of the Armed Forces in contemporary American society. Concentration is on the requisites for maintaining adequate national security through political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and the role and relationship between the military and civilian law.

**AFS 2250 Culture and Society in Africa 6A AF (3) AS AFA**
- Topics include: African religion, 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**
- CR: Junior or Senior standing. Explore the socio-historical, philosophical and political dynamics of African cultures through the study of African oral literature and the reading of African literary texts of various genres.

**AFS 3251 Environmental - Cultural Study in Africa SS FA AF (3) AS AFA**
- CR: AFS 2250 or CI. Study tour. A study of traditional African society and culture, the relationship between life and the environment, and the impact of modernization on the culture and environment.

**AFS 4910 Individual Research** (1-3) AS AFA
- CR: CI, Department approval. 2000 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 Renewal to the Age of Enlightenment. Attention is given to the transformation of the colonies to provinces with emphasis on ethnic/national conflict, religion, labor systems, and political culture.

**AMH 3130 The American Revolutionary Era** (4) AS HTY
- A study of the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalty, violence, and slavery in American society from 1750-1789.

**AMH 3140 The Age of Jackson** (4) AS HTY
- A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethnic-cultural conflicts.

**AMH 3160 The Age of Jackson** (4) AS HTY
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of the evolution of 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 (1877).

AMH 3201 The United States, 1877 to 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, unions, reform, racism, sex and gender roles, 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 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 6A (4) AS HTY
The development of American Foreign Relations in the Agricultural era.

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

AMH 3530 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 policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

AMH 3545 War and the 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 Viet Nam.

AMH 3561 African American Woman 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, wars, and reform movements will be examined.

AMH 3562 African American Woman 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 1865. Topics include pre-colonial Africa, transatlantic trade, slavery, as well as the Civil War, and Reconstruction.

AMH 3572 African American History since 1865 HP (3) AS AFA
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement.

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 culture studies, and historical archaeology methods within a professional historical archaeology setting.

AML 3031 American Literature From the Beginnings to 1860 (3) AS ENG
A study of representative works from the period of early settlement through Adams and Emerson, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 American Literature From 1860 to 1912 (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 1912-1945 (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 3413 Historical Perspectives in Early American Literature HP (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 the English major.

AML 3604 African American Literature 6A LW (3) AS ENG
A study of African American literature from the nineteenth century to the present, including the works of such writers as W.E.B. Dubois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

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 4121 Twentieth-Century American Novel (3) AS ENG
A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Donoghue, and others.

AML 4261 Literature of the South 3 (3) AS ENG
A study of the major writers of the Southern Renaissance, including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, 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 Hemingway, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be taken twice for credit with different topics.

AML 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.

AML 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 Africanan 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 a specific cultural era.

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 2261 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 2363 Issues in American Civilization (1-4) AS AMS
May be part of a summer (or other semester) field school, or field methods in Archaeology and Laboratory Methods in Archaeology.

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, Moche, Wari, Chibcha included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 Historical Archaeology 6A 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 or 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, making, 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 or DPR. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

ANT 4183C Archaeological Science (4) AS ANT
PR: ANT 3101 or DPR. This course 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 sections provide hands-on experience with a variety of archaeological materials and analytical methods.

ANT 4231 Folktale 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 Magic and 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 practices, beliefs 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 4311 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 settlers. Emphasis on various aspects of adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

ANT 4316 Ethnic Diversity in the United States (3) AS ANT
PR: ANT 2410 or DPR. Special concern will be given to the role of 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.

PR: ANT 2410. Restricted to Anthropology majors, LACS certificate students, junior and seniors only. Emphasis on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica, Guatemala and Mexico are emphasized.

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 social, economic and political 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.

PR: ANT 2410 and DPR. The use of photographic techniques for the cross-cultural 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.

For non-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 increasing globalization.

ANT 4401 Exploring Cross-Cultural Diversity MW (3) AS ANT
PR: ANT 2410 or DPR. Focuses on the nature and degree of fit between language and culture in cross-cultural perspective. Explores the relationship between the individual and society is studied cross-culturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

ANT 4442 Urban Life and Culture (3) 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 4445 Methods in Cultural Research (3) AS ANT
PR: DPR. Restricted to juniors and seniors. The stages in the development and execution of ethnographic research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

ANT 4520C Forensic Anthropology (4) AS ANT
This course is designed to familiarize students with forensic anthropology through lectures and lab work. Students will learn the application of forensic human skeletal biology for personal identification and cause of death. This course is restricted to majors and is not repeatable.

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 evolution and biological variations of human races. Anatomical, 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 3610 or DPR. The relationship between language and culture is examined. Emphasis is placed on the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

ANT 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
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.

ARC 2702 Architectural History II HP FA (3) AR ARC

PR: CC. Second of a two-semester 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 (3) AR ARC

PR: CC. Second of a 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 5363 Core Design III (6) AR ARC

PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731. Students in the Liberal Studies Major/ALA Degree Program and students in the Graduate Architecture Program.

ARC 5364 Advanced Design A (6) AR ARC

PR: ARC 5363, CP: 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 skills involved in the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

ARC 5385 Advanced 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, spatial 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 ARC
PR: ARC5363, 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. Restoration 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 (4) AR ARC
PR: ARC 5470, CC. Overview of properties of primary materials and construction systems which comprise building structure and enclosure. Emphasis on interface and connection of elements and assemblies, relative to climate, assembly processes, costs, codes, and craftsmanship. Lab sessions include field trips to manufacturing facilities, construction sites, and preparation of drawings and models of assemblies.

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 design.

ARC 5588 Structures II (3) AR ARC

ARC 5689 Environmental Technology (4) AR ARC
PR: Physics, ARC 5470, CC. Comprehensive review of mechanical, electrical, and plumbing systems for buildings. Energy utilization, heating and cooling, water delivery and waste removal, fire protection, illumination, transportation systems, and acoustics. Lab exercises include computer simulations, illumination studies, thermal performance studies.

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. Varieties of 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, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.

ARC 5920 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 interaction 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 3044. A combination of theory, philosophy and practice in both public and private teaching 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
Mediation and the learning process will be explored through photographic workshops, 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 3044. 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 3044. Explores the arts as infrastructure through identification, Exploration and experimentation of with unique community spaces, populations and new environments for and learning in the arts.

ARE 4909 Directed Study: Art Education (1-3) VP ART
PR: Senior standing. Directed study contract required. Designed to extend teaching competencies in the field of art education.

ARE 4936 Senior Seminar, Art Education (2) VP ART

ARE 4940 Internship: Art Education (1-12) VP ART
CR: ARE 4936, S/U only. One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours.

ARH 2050 History of Visual Arts I HP FA (3) VP ART
PR: DPR. A survey of World Art to AD 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.

ARH 2051 History of Visual Arts II HP FA (3) VP ART
PR: DPR. A survey of World Art since AD 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.

ARU 3901 Introduction To Art HP FA (4) VP ART
An expanded introductory treatment of basic concepts. For non-art majors.

ARH 3475C Contemporary Issues in Art HP FA MW (4) VP ART
PR: DPR. Focuses upon the productions, themes and processes of artists working in the present time. This course will investigate the relationship of materials and media used by contemporary artists to the subject and content of artists’ productions/products and as well as conceptual processes.

ARH 4115 Ancient Egyptian and Near Eastern Art (4) VP ART
PR: ARH 2050 recommended but not 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 4130 Greek Art (4) VP ART
PR: ARH 2050 or EUH 2011 recommended but not required. A comprehensive study of ancient Greek sculpture, painting, architecture, and the other artistic media from the Bronze Age through the Hellenistic period.

ARH 4151 Roman Art (4) VP ART
PR: 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.

ARH 4170 Greek and Roman Art (4) VP ART
A comprehensive study of Aegaeans, Mycenaenae, Etruscan, Greek and Roman painting, sculpture and architecture.
ARH 4200 Medieval Art (4) VP ART
PR: DPR. A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

ARH 4301 Renaissance Art (4) VP ART
PR: DPR. A comprehensive study of Renaissance and Manierist painting, sculpture and architecture in Italy and Northern Europe.

ARH 4318 Venetian Art (4) VP ART
PR: DPR. Major monuments 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 4350 Baroque and Rococo Art (4) VP ART
PR: DPR. An in-depth study of baroque painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and eighteenth centuries.

ARH 4430 Nineteenth Century Art (4) VP ART
PR: ARH 2051. A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.

ARH 4450 Twentieth Century Art (4) VP ART
PR: ARH 2051. A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.

ARH 4455 Modern Political Iconography (4) VP ART
PR: DPR. The course explores art in which political themes are considered to be the source and determinant of aesthetic decisions. The dominant iconographic theme is the iconography of revolution and its political tasks, and other forms of political struggle in 20th Century art and film.

ARH 4520 African Art (4) VP ART
PR: DPR. A combination of survey, comparative study and in-depth analysis of African art, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolism and meanings.

ARH 4547 Buddhist Art (4) VP ART
PR: DPR. This course examines 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, philosophic, 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. 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 analytical capabilities. The 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 Selected Topics 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
PR: Two advanced Art History courses. 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 12 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 evolution 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 The History Of Art History (4) VP ART
PR: Four courses in Art History at the 4000 level, DPR. Examination of the origins of art history: 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 5797 Gallery and Museum Internship (2-6) VP ART
Student interns are eligible after completing one semester in the program. S/U only. Registration by contract only. By working in Bay Area museums or galleries, students will become familiar with various museological operations. Internships vary among individual museums, but possible areas of work include registration, installation, conversation, writing of grants, or museum education.

ART 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.

ART 5833 The Atelier, Its Management and History (3) VP ART
This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.

ART 5836 Collection and Exhibition Management (3) VP ART
PR: Art Advisor’s Approval This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of 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 5839 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.

ART 2201C Fabrications I FA (3) VP ART
An introduction to basic visual art studio 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 Fabrications II (3) 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 media, methods, 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. S/U only. Registration by contract only.

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 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 History (2-4) VP ART
PR: Majors Only. The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors.

ART 3222C Intermediate Electronic Media (3) VP ART
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ART 2201C</td>
<td>ART 2203C, ART 2301C, ART 3301C</td>
<td>3</td>
<td>An introductory exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media and the development of individual creative growth. Repeatable up to 15 hours.</td>
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<td>ART 3715C</td>
<td>Selected Topics in Ceramics (3) Pr: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2705C, ART 3761C. 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.</td>
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<tr>
<td>ART 3843C</td>
<td>Site, Installation, and Performance (3) Pr: ART 2701C and ART 3704C. Majors Only. Continuing studies and projects in sculpture with an emphasis on site-specific sculpture, installation, and performance. A critical and cultural awareness of contemporary issues and media in sculpture will be developed through studio projects and research. Discussions, critiques, and demonstrations. The course may not be repeated for credit.</td>
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<tr>
<td>ART 3935</td>
<td>Studio Techniques: Selected Projects (2) Pr: ART 2203C, ARH 2050, ARH 2051. Continuing problems in sculpture. Repeatable up to 15 hours.</td>
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<td>ART 4203C</td>
<td>Advanced Painting (3) Pr: ART 2201C, ART 2203C, ART 2301C, ART 2705C, ART 3310C. 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.</td>
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<tr>
<td>ART 4611C</td>
<td>Advanced Electronic Media (3) Pr: ART 2201C, ART 2203C, ART 2301C, ART 2701C, ART 3310C, ARH 2050, ARH 2051. 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.</td>
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<tr>
<td>ART 4906</td>
<td>Theme Studio (3) Pr: ART 2201C or ART 2203C. Majors Only. All preparation courses plus course in Studio Workshop I.</td>
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<tr>
<td>ART 4905</td>
<td>Directed Study (1-4) Pr: ART 2201C or equivalent. This course will explore contemporary and historic Paris as a subject and source for artmaking, drawing upon a range of concepts and strategies that enhance the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.</td>
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**UNIVERSITY OF SOUTH FLORIDA - 2005/2006 UNDERGRADUATE CATALOG**
Introduction to the Astronomy of the Solar System. No Physics background assumed. This course covers properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration of planets and the moon, life on other worlds. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.

AST 2004 Stellar Astronomy and Cosmology NS (4) AS AST
An introduction to Astrophysics and the structure of the universe. No Physics background assumed. Topics include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.

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

AST 3033 Contemporary Thinking in Astronomy NS (3) AS AST
Pr: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the origins of the universe, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 Archaeoastronomy (3) AS AST
Pr: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-Lab.

AST 3652 Navigation (3) AS AST
Pr: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

AST 3930 Selected Topics in Astronomy (1-4) AS AST
Pr: CI. Course content will depend upon the interest of the faculty and student demand.

AST 5506 Introduction to Celestial Mechanics (3) AS AST
Pr: MAC 2313 or MAC 2283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

AST 5932 Selected Topics in Astronomy (1-5) AS AST
Pr: Senior or advanced junior standing or CI. Intensive coverage of special topics in support of advanced students.

BCH 3023 Introductory Biochemistry (3) AS CHM
Pr: CHM 2200 or CHM 2211 and BSC 2010. Introduction to the chemistry and intermediary metabolism of biologically important substances.

BCH 3023L Basic Biochemistry Laboratory (2) AS CHM
CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

BCH 4034 Advanced Biochemistry (3) AS CHM
Pr: BCH 3023. An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, antibiotics, and addiction.

BCH 5045 Biochemistry Core Course (3) AS CHM
Pr: Either CHM 2211, CHM 2211L and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

BCH 5105 Biochemistry Laboratory Rotations (1-3) AS CHM
CR: BCH 5000. Each course covers some measure of the basic course in which first-year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.

BME 3000 Introduction to Biomedical Engineering (3) EN ECH
Pr: Either engineering or medical school. Open to non-engineering students with CI. Introduction to biomedical engineering, including human subject material and energy balances, bioengineering, biomechanics, computer-assisted design, hydraulic modeling, prosthetic devices, and clinical engineering.

BME 5006 Theory and Design of Bioprocesses (3) EN ECH
Pr: Senior standing in engineering or CI. Open to majors and non-majors with CI. Introduction to biotechnology, including applied
microbiology, enzyme technology, biomass production, bioreactor design, and environmental biotechnology.

BME 5040 Pharmaceutical Engineering (2) EN ECH
PR: Senior or graduate standing in engineering or CI. Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.

BME 5910 Directed Research in Bioengineering (1-3) EN ECH
PR: CI. Directed research in an area of biomedical engineering or biotechnology.

BME 5937 Selected Topics in Biomedical Engineering (1-3) EN ECH
PR: Senior or GS standing in Engineering or CI. Open to non-engineering students with CI. Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biologicals of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. Repeatable as subjects vary.

BMS 4402 Principles of Human Pharmacology NS (3) ME MSG
Not available on S/U basis. Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide basic understanding of mechanism of drug action resulting from molecular processes involving body systems.

BMS 5015 Clinical Diagnosis and Reasoning (var.) ME MSG
This course aims to provide the student with the opportunity to "think like a physician." It will provide the venue to integrate clinical diagnosis/rationale strategies with complementary aspects of medical physiology, diagnostic testing, and critical thinking. This course will cover the following topics: principles of clinical problem solving/phys diagnosis/evidence based medicine.

BMS 5190 Anatomy by Diagnostic Testing (1-20) ME MSG
Describing normal human anatomy in three dimensions (frONTAL, coronal, and axial) using contrast medical and imaging modalities available for diagnostic radiologists. Course will be oriented to organ systems describing anatomy of the human body and its vascular and topographic anatomy. It will include didactic, lecture series and a standing display of images for self-studies. Plain radiographs, contrast studies of gastrointestinal and urinary tract, arteriograms, computed tomograms, magnetic resonance, and ultrasonic scans of body organs will be displayed.

BOT 3373C Vascular Plants: Form and Function (4) AS BIO

BOT 3850 Medical Botany (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. A survey of the fungi with emphasis on ecology and functional morphology. An analysis of selected biological principles, usually taught by lecture. PR: BOT 3373C, PCB 3043 or CI. Field demonstrations of selected biological principles, but not taught by lecture.

BSC 1005 Principles of Biology For Non-Majors NS (3) AS BIO
PR: credit for Biology or CI. Lec/Lab. Introductions to selected biological principles, usually taught by lecture. Readings from the current and historical literature. Lec/Lab.

BSC 1020 Biology I - Cellular Processes NS (3) AS BIO
CP: BSC 2010L and CHM 2045. The course is designed for majors and involves a laboratory associated with the lecture. An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meiosis, genetics and gene expression.

BSC 2011L Biology I Cellular Processes Laboratory (1) AS BIO
CR: BSC 2010. Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.

BSC 2011L Biology II Diversity NS (3) AS BIO

BSC 2011L Biology II Diversity Laboratory (1) AS BIO
CR: BSC 2011. Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as plant and animal development, will be stressed.

BSC 2011L Biology II Diversity Laboratory (1) AS BIO
CR: BSC 2011. Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as plant and animal development, will be stressed.

BSC 2022 Biology of Aging NS (3) AS BIO
PR: credit for Biology or CI. Directed research in an area of biomedical engineering or biotechnology.

BSC 3240 Save The Planet: Environmental Sciences NS (3) AS BIO
Credit will be given for BSC 2300 or BSC 2050, but not both. An introduction to environmental sciences using mass communications.

BSC 3235 Sex and Today's World NS (3) AS BIO
The application of basic biological principles to human sexual problems; to learn how various cultures achieve adequate nutrition and health. May be taken by majors for credit.

BSC 3250 Environment NS (3) AS BIO
Credit will be given for BSC 3230 or BSC 2050, but not both. An introduction to environmental sciences using mass communications and independent study.

BSC 2093C Human Anatomy and Physiology I (4) AS BIO
PR: BSC 2010, BSC 2010L and BSC 2011, BSC 2011L. This course is the first half of a two-semester series introducing the structure and function of the human body's major organ systems. May be taken by Department majors for free elective credit only.

BSC 2094C Human Anatomy and Physiology II (4) AS BIO
PR: credit for Biology or CI. Directed research in an area of biomedical engineering or biotechnology.

BSC 2932 Selected Topics in Biology (1-4) AS BIO
PR: BSC 2010L, BSC 2010L & CHM 2045. CR: BSC 2011, BSC 2011L. Enrollments 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 research.

BSC 3312C Introduction to Marine Biology (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. 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 environment. The course also 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 II (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.

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 4410 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 4680 AI Robotics (3) EN ESB

PR: EEL 4851C; CR: COT 4400 A.I. methods for mobile robots (ground/aerial/underwater). Understand:(1) 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 their applications, low-level processing algorithms for vision, image data compression.

CAP 5625 Introduction to Artificial Intelligence (3) EN ESB

PR: EEL 4851C or GS. Basic concepts, tools, and techniques to produce intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

CAP 5682 Expert And Intelligent Systems (3) EN ESB

PR: EEL 4851C or GS. The course will concentrate on major patterns of offender behavior including crimes against the person, property, sales of personal property, securing of credit granted, property, sales of personal property, securing of credit granted, crime, and will examine criminal career data. Non-majors by special permission and demonstration of required skills.

CAP 5692 Expert Systems (3) EN ESB

PR: EEL 4851C or GS. The course will concentrate on major patterns of offender behavior including crimes against the person, property, sales of personal property, securing of credit granted, property, sales of personal property, securing of credit granted, 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 3024 Survey of the Criminal Justice System SS (3) 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 3024 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 3610 Theories of Criminal Behavior (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 3610 Theories of Criminal Behavior (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 3621 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 3621 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 4450 Criminal Justice Administration (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.
PR: Junior standing, CJE 4114 or CJ 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 4605 Abnormal Behavior and Criminality (3) AS CJP
PR: Junior standing, CJ 3610 or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its effect on the handling of the accused. Discussion of the theoretical bases of the system is cast in a meta-language that captures the logical and physical nature of the computer.

CDA 3103 Computer Organization (3) EN ESB
PR: PHY 2049 or PHY 2054 and DPR. Introduction to computer hardware, logic elements and Boolean algebra, computer arithmetic, the central processing unit, assembly language programming, input/output, and memory.

CDA 2031 Computer Logic and Design (3) EN ESB
PR: CDA 3103, CEF 2014; CR: CDA 3201L and Degree Program Approval. Advanced course in the principles of the design of combinational logic circuits, analysis and synthesis of sequential circuits, testing of logic circuits, and programmable logic devices.

CDA 3201L Computer Logic Design Lab (1) EN ESB
CR: CDA 3201.

CDA 4100 Computer Organization and Architecture (3) EN ESB
PR: EEL 4705. Elements of computer systems; processors, memories and switches. Register transfer representation of a computer. ALUs and their implementation. The control unit. Memory and I/O. Hardware support of operation system functions.

CDA 2403 Computer System Design (3) EN ESB
PR: CDA 3201, CDA 3201L. Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.

CDA 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.

CDA 4204 Computer Architecture (3) EN ESB
PR: CDA 3201, CDA 3201L. Principles of the design of computer systems, processors, memories, and switches. Consideration of the register transfer representation of a computer, ALUs and their implementation, control unit, memory and I/O, and the hardware support of operation systems.

CEG 4011 Geotechnical Engineering I (3) EN EGD
PR: EGN 3353, EGN 3331. Fundamental and experimental concepts of the foundations of geotechnical engineering. One hour lecture and two laboratory hours per week.

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

CEG 4550 Capstone Geotechnical/Transportation Design MW (3) EN EGD
PR: CEG 4011, TTE 4004. A capstone geotechnical/transportation design experience for seniors in Civil and Environmental Engineering. A capstone course on the emphasis on soil properties, soil moisture, soil structure, and shear strength.

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

CEG 5205 Laboratory Testing for Geotechnical Engineers (3) EN EGD
PR: CEG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

CEN 3722 Human Computer Interfaces for Information Technology (3) US EIT
Human-Computer Interface is the study of people, computer technology and the ways these influence each other. The basic foundations of HCI in terms of psychology, computer systems and their integration into design practice are discussed in the course.

CEN 4020 Software Engineering (3) EN ESB
PR: EEL 4651C. An overview of software engineering techniques for producing high quality software. Student will participate in a software development team.

CEN 4023 Software System Development (3) EN ESB
PR: EEL 4651C. Consideration of object methodology and object oriented programming. Team analysis, design, and development
of complex software systems using software development tools.

CEN 4031 Software Engineering Concepts for Information Technology (3) US EiT
PR: EEL 4854 or CI. Concepts associated with production of high-quality software through the use of software engineering concepts and practices are covered. In addition to conceptual presentations, students are required to participate in software development tool projects.

CEN 4721 User Interface Design (3) EN ESB
PR: EEL 4851C. An examination of factors influencing the usability of a computer system. Topics include input and output devices, graphic and multi-media interfaces, formats for interaction/communication between computer and user, and the evaluation of usability.

CES 3102 Structures I (3) EN EGX
PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Moment area theorems; influence lines; introduction to steel design.

CES 4141 Finite Element Analysis I (3) EN EGX

CES 4561 Computer Aided Structural Design (3) EN EGX
PR: CES 4141. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CES 4616 Concepts of Steel Design (3) EN EGX
PR: CES 3102. Introduction to steel design and AISC Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.

CES 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 4720 Capstone Structural/Materials Design (3) EN EGX
PR: EGN 3365, CES 4605, CES 4702. A Capstone Materials design experience for seniors in Civil and Environmental Engineering. This course will provide students with a focused design experience aimed to design for durability and reliability.

CES 4740 Capstone Structural/Geotechnical/ Material Design MW (3) EN EGX

CES 4742 Concepts of Structural 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, and design of steel beams.

CES 4820C Timber and Masonry Design (3) EN EGX
PR: CES 3102, CES 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and piers.

CES 5105C Advanced Mechanics of Materials I (3) EN EGX
PR: EGN 3331, MAP 2302 Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in elasticity, theory of failure, beams, elastic foundation.

CES 5209 Structural Dynamics (3) EN EGX
PR: CES 3102, EGN 3321. Behavior of structural components and systems subjected to periodic dynamic loads.

CES 5715C Prestressed Concrete (3) EN EGX
PR: CI, majors only. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of pressures applications.

CGN 3021 Civil Engineering Laboratory (2) EN EGX
PR: CES 3102, EGN 3353, EGN 3365. A laboratory experience in departmental facilities including the subject areas of materials, fluids, environmental engineering, and computer assisted data acquisition.

CGN 4122 Professional and Ethical Issues in Engineering MW (3) EN EGX
The professional and ethical responsibilities of engineers. The legal and ethical responsibilities of engineers in the preparation of contracts and specification. The ethics of engineer-client agreements.

CGN 4851 Concrete Construction Materials (3) EN EGX
PR: EGN 3365. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.

CGN 4905 Independent Study (1-5) EN EGX
PR: CC. S/U only. Specialized independent study determined by the students’ needs and interests.

CGN 4911 Research in Civil Engineering and Environmental Engineering (1-4) EN EGX
PR: CC.

CGN 4914 Senior Project (2-5) EN EGX
PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

CGN 4933 Special Topics in Civil and Environmental Engineering (1-5) EN EGX
PR: CI. New technical topics of interest to civil engineering students.

CGN 5933 Special Topics in Civil Engineering and Mechanics (1-5) EN EGX
PR: CI. New technical topics of interest to civil engineering students.

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 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 3303 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 5755 Introduction to Unix and C (3) EN ESB

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

CHI 1120L Modern Chinese I Laboratory (1) AS WLE
CR: CHI 1120. 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 instructional technologies and media.

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

CHI 1121L Modern Chinese II Laboratory (1) AS WLE
CR: CHI 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 instructional technologies and media.

CHI 2200 Modern Chinese III (4) AS WLE
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.

CHI 2201 Modern Chinese IV (4) AS WLE
PR: CHI 2200 or the equivalent. Continuation of CHI 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

CHI 4805 Directed Study (1-5) AS WLE
PR: CI. S/U only. Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion.

CHM 2021 Chemistry for Today AS (4) AS CHM
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045L</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
<td>Fundamental principles of inorganic chemistry, thermochemistry, atomic-ionic structure and bonding, periodic properties of elements and compounds.</td>
</tr>
<tr>
<td>CHM 2210L</td>
<td>Organic Chemistry I</td>
<td>3</td>
<td>Continuation of organic chemistry laboratory.</td>
</tr>
<tr>
<td>CHM 2220</td>
<td>Organic Chemistry Laboratory I</td>
<td>2</td>
<td>Laboratory portion of Organic Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.</td>
</tr>
<tr>
<td>CHM 5621</td>
<td>Intermediate Organic Chemistry I</td>
<td>3</td>
<td>Introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lecture.</td>
</tr>
<tr>
<td>CHM 5622</td>
<td>Intermediate Organic Chemistry II</td>
<td>3</td>
<td>Advanced study in depth of the historical and philosophical aspects of chemistry and societal impact. Lecture.</td>
</tr>
<tr>
<td>CHS 4000</td>
<td>Thermodynamics</td>
<td>3</td>
<td>An introduction to thermodynamics. Lecture.</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>Thermodynamics</td>
<td>3</td>
<td>Introduction to quantum mechanics and molecular spectroscopy. Lecture.</td>
</tr>
<tr>
<td>PHY 2054</td>
<td>Thermodynamics</td>
<td>3</td>
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<td>3</td>
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</table>

Note: The course descriptions include a variety of topics such as thermodynamics, quantum mechanics, organic chemistry, and more. Each course has specific prerequisites and is designed to build upon the knowledge gained in previous courses.
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<th>Credits</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJE 4114</td>
<td>Private Security Systems</td>
<td>3</td>
<td>CJP</td>
<td>Examines principles and techniques currently used to reduce or prevent losses due to theft and casualty.</td>
</tr>
<tr>
<td>CJI 4210</td>
<td>Developmental Aspects of Juvenile Delinquency</td>
<td>3</td>
<td>CJP</td>
<td>Focuses on juvenile correctional responses from diversion to the use of secure facilities, focusing on supervision, deterrence, probation, and community-based non-secure facilities.</td>
</tr>
<tr>
<td>CJC 4100</td>
<td>Criminal Investigation</td>
<td>3</td>
<td>CJP</td>
<td>Focuses on juvenile delinquency and the role of juvenile justice systems and the courts.</td>
</tr>
<tr>
<td>CJE 4010</td>
<td>Juvenile Justice System</td>
<td>3</td>
<td>CJP</td>
<td>Focuses on juvenile justice systems and the courts, particularly with the juvenile justice system, particularly with the juveniles' rights as they relate to the juveniles in trouble.</td>
</tr>
<tr>
<td>CJC 4310</td>
<td>Correctional Administration</td>
<td>3</td>
<td>CJP</td>
<td>Focuses on juvenile correctional administration in both institutional and community corrections.</td>
</tr>
<tr>
<td>CJE 4044</td>
<td>Police and Juvenile Delinquency</td>
<td>3</td>
<td>CJP</td>
<td>Focuses on various aspects of juvenile justice systems and the courts, particularly with the juveniles' rights as they relate to the juveniles in trouble.</td>
</tr>
<tr>
<td>CJE 4114</td>
<td>American Law Enforcement Systems</td>
<td>3</td>
<td>CJP</td>
<td>Provides a comprehensive examination of the American law enforcement system at the federal, state, and local levels and an assessment of career opportunities within the community.</td>
</tr>
<tr>
<td>CIS 4935</td>
<td>Senior Project in Information Technology</td>
<td>3-5</td>
<td>EIT</td>
<td>Projects intended to develop individual interests and abilities in computer science, focusing on either computer hardware or software aspects of a well defined proposal.</td>
</tr>
<tr>
<td>CIS 4970</td>
<td>Special Topics in Computer Science</td>
<td>1-4</td>
<td>ESB</td>
<td>Focuses on various aspects of computer science, focusing on either computer hardware or software aspects of a well defined proposal.</td>
</tr>
<tr>
<td>CIS 4935</td>
<td>Senior Project in Information Technology</td>
<td>3-5</td>
<td>EIT</td>
<td>Projects intended to develop individual interests and abilities in computer science, focusing on either computer hardware or software aspects of a well defined proposal.</td>
</tr>
<tr>
<td>CLA 3103</td>
<td>Greek Civilization</td>
<td>3</td>
<td>WLE</td>
<td>Study of Ancient Greek Civilization from its beginning to the Roman period, with emphasis on the role of Greek/Latin elements within the context of the ancient Greek and Roman world, through lectures, video, and slide presentations.</td>
</tr>
<tr>
<td>CLA 3104</td>
<td>Greek Civilization</td>
<td>3</td>
<td>WLE</td>
<td>Study of Ancient Greek Civilization from its beginning to the Roman period, with emphasis on the role of Greek/Latin elements within the context of the ancient Greek and Roman world, through lectures, video, and slide presentations.</td>
</tr>
<tr>
<td>CLA 3105</td>
<td>Greek Civilization</td>
<td>3</td>
<td>WLE</td>
<td>Study of Ancient Greek Civilization from its beginning to the Roman period, with emphasis on the role of Greek/Latin elements within the context of the ancient Greek and Roman world, through lectures, video, and slide presentations.</td>
</tr>
</tbody>
</table>
Genetic, organic, and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.

CLP 4143 Abnormal Psychology (3) AS PSY
PR: PSY 3213 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 behavioral analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4433 Psychological Tests and Measurement (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Students may not receive credit for both CLP 4433 and EDF 4430. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses.

COM 3120 Introduction to Communication Theory in Social Settings (3) AS SPE
COM 3122 Interview Communication Lab (0) AS SPE
COM 3122 Interview Communication (3) AS SPE
PR: majors, COM 2000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.

COM 3122 Interview Communication Lab (0) AS SPE
COM 3122 Interview Communication (3) AS SPE
PR: majors, COM 2000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.

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PR: majors, COM 2000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.

COM 3122 Interview Communication Lab (0) AS SPE
COM 3122 Interview Communication (3) AS SPE
PR: majors, COM 2000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.
technology for exchanging structured information over the Internet, and examines a sampling of its many applications.

COP 4834 Data-Driven Web Sites (3) US EIT
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.

COP 4930 Information Technology Seminar (1-3) US EIT
PR: Senior standing in Information Technology. A survey of current Information Technology topics are covered to keep the IT student abreast of the variety of domains associated with their major. Speakers with a wide variety of IT experience will give seminars to senior IT students.

COT 3100 Introduction to Discrete Structures (3) EN ESB
PR: MAC 2281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

COT 4210 Automata Theory and Formal Languages (3) EN ESB
PR: COT 3100, EEL 4851C. Introduction to the theory and application of various types of computing devices and the languages they recognize.

COT 4400 Analysis Of Algorithms (3) EN ESB
PR: COT 3100, EEL 4851C. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

CPO 2002 Introduction to Comparative Politics SS (3) AS POL
Comparison and analysis of representative European and non-Western political systems.

CPO 4034 Politics of the Developing Areas SS AF (3) AS POL
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

CPO 4204 Government and Politics of Africa SS AF (3) AS AFA
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

CPO 4330 Comparative Government and Politics of Selected Countries or Areas (3) AS POL
Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered.

CPO 5934 Selected Topics in Comparative Politics (3) AS POL
Sr./GS. Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.

CRW 2100 Narration and Description 6A (3) AS ENG
A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, the course is designed to broaden the gap between expository writing and imaginative writing.

CRW 3111 Form and Technique of Fiction 6A (3) AS ENG
A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary story, and short story as they have been used in the development of fiction and as they exist today.

CRW 3112 Fiction I 6A (3) AS ENG
PR: CRW 2100 or CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.

CRW 3121 Fiction II 6A (3) AS ENG
PR: CRW 2100 or CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance for the student’s writing and which encourages the development of critical skills.

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., with emphasis in the narrative, dramatic, and lyric modes are also explored.

CRW 3321 Poetry II (3) AS ENG
PR: CRW 3111, CRW 3310. A poetry workshop which provides individual and peer guidance for the student’s writing and which encourages the development of critical skills.
DAA 2540 Theatre Dance Styles (2) VP DAN
PR: DAA 2500 or DAA 2504 or CI. Development of technical skills in social and historical dance forms frequently stylized for use by dance choreographers. Forms to be studied will include polka, clogging, waltz, folk, tap dancing, etc. May be repeated up to 6 credits.

DAA 2570 Jazz Theatre Dance (3) VP DAN
PR: Admission by placement audition and DAA 2504. Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Students will work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated up to 6 credits.

DAA 2760 Tai Chi (2) VP DAN
This course is an introduction to the study of Tai Chi focusing on the philosophy and postures of this martial art. May be repeated.

DAA 2761 Introduction to Yoga (2) VP DAN
This course is designed to provide students with an understanding of basic Yoga philosophy and practice which includes postures, meditation and breath techniques. May be repeated.

DAA 3108 Modern Dance II (3) VP DAN
PR: Admission by placement audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

DAA 3109 Modern Dance III (2-3) VP DAN
PR: Admission by placement audition. Continuation of DAA 3108. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated.

DAA 3208 Ballet II (3) VP DAN
PR: Admission by placement audition. Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated.

DAA 3209 Ballet III (2-3) VP DAN

DAA 3294 Ballet Variations (1) VP DAN
PR: DAA 3209. This course provides instruction in various forms of ballet. Semester courses include: Pointe technique, Men’s Class, Character Dance, Spanish Dance and Partnering. BFA Ballet concentration students are required to complete two semester hours. May be repeated.

DAA 3325 World Dance Topics (1) VP DAN
Students will experience fundamental knowledge of dance representing various world cultures. In addition to a dance/movement component, a connection will be made to historical, spiritual, religious, ethnological and environmental indigenous aspects of people involved in dance as a cultural experience. May be repeated.

DAA 3614 Choreography I (2) VP DAN
PR: DAA 3614. CR: DAA 3108. BFA students must be concurrently enrolled in Modern III/IV and Ballet III. Study and execution of basic principles of composition. Preparation of studies in theme and variations, breath phrases and metric phrases.

DAA 3615 Choreography II (2) VP DAN
PR: DAA 3614. Preparation of studies in rhythm, dynamics, form and motivation.

DAA 3624 Dance Improvisation (2) VP DAN
For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated.

DAA 3654 Repertory I (1) VP DAN
PR: Admission by audition. The development and performance of solo and/or group dances.

DAA 3684 Repertory II (1) VP DAN
PR: Admission by audition. The development and performance of solo and/or group dances.

DAA 3686 Performance (1-2) VP DAN
PR: Admission by audition. Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Includes rehearsal and performance of works presented by the department. May be repeated.

DAA 4111 Modern Dance IV (3-4) VP DAN
PR: Admission by placement audition. Intense work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

DAA 4211 Ballet IV (3-4) VP DAN
PR: Admission by placement audition or CI. Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. Outside projects, concerts, and performances are required. May be repeated.

DAA 4616 Choreography III (2) VP DAN
PR: DAA 3615. CR: DAA 3614 or above. Work directed toward duets and group dances. The students will submit choreographic ideas for the instructor’s approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged.

DAA 4617 Choreography IV (2) VP DAN
PR: DAA 4616. The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading.

DAA 4685 Performance (1-3) VP DAN
PR: Admission by audition. Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Involves rehearsal and performance of works presented by the department. May be repeated.

DAA 4687 Performance (1-2) VP DAN
PR: Admission by audition. Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Involves rehearsal and performance of works presented by the department. May be repeated.

DAA 4694 Senior Choreography Project (1) VP DAN
PR: Dance majors with senior standing. The creation of an original group work and solo within the senior’s major concentration- ballet, modern or contemp. To be performed and presented with the concurrence of a faculty advisor.

DAA 4920 Dance Studies (1-4) VP DAN
PR: CI and CC. Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops.

DAA 4931 Pre-Workshop with Dance Practitioners (1-3) VP DAN
PR: Admission by audition or CI. This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to Pre-K and Elementary Methods.

DAA 4932 Dance Pedagogy: Pre-School to Elementary (3) VP DAN
This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

DAA 4933 Special Studies Dance Education (3) VP DAN
PR: CI and CC. CR: CI and CC. Designed to provide prospective dance teachers with opportunities to develop concepts of pedagogy based on principles of teaching/learning dance. Specific sections will focus on Secondary Curriculum and Methods and on Pre-K and Elementary Methods.

DAA 4937 Dance Pedagogy: Secondary Curriculum (3) VP DAN
This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

DAN 2100 Introduction To Dance 6A FA (3) VP DAN
For majors and non-dance majors, a study of the art and language of dance through lectures, discussions, concert attendance, and studio work. Designed to develop awareness and insight of this art form through discussion, observation, writing, and movement experience.

DAN 2160 Entry Seminar (2) VP DAN
This is a study of dance-related career opportunities through lectures, assigned reading and video viewing. This course will
aid majors in understanding dance as an aesthetic art form through discussion and critical evaluation.

**DAN 3584 Practicum In Dance Production** (2) VP DAN
A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costume, stage preparation, light presentation, stage management and production crew. Dance majors must have 4 credits. May be repeated.

**DAN 3614 Music For Dance** (2) VP DAN
PR: Designed for majors and non-majors. Development of musical skills in movement studies. Continued study of the interrelationship of music and dance through movement experiences, observations, video, and writing.

**DAN 3615 Music For Dance II** (2) VP DAN

**DAN 3714 Dance Kinesiology** (3) VP DAN
This course will give the student an understanding of basic human anatomy and how it functions in relation to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studied. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, in performance and injury prevention.

**DAN 4134 Dance History Though the 19th Century** (3) VP DAN
Designed for majors and non-majors, this course will present a comprehensive view of the evolution of dance as an art form from its origins through the 19th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing. Students will be required to attend at least two dance performances.

**DAN 4162 Research in Dance** (2) VP DAN
PR: Dance major with Junior standing, and completion of two courses in secondary area. Course will introduce basic research methodologies for conducting research in the dance genre, and will serve the student in preparing for future research based study in the field of dance. Students will conduct library, internet, and field research.

**DAN 4181 Dance Senior Seminar** (2) VP DAN
PR: Dance major with senior status. A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation and projects.

**DAN 4404 Laban Movement Analysis** (3) VP DAN
Specialized study in movement theories, body alignment, and movement patterns focusing on the scientific and analytical basis of movement in dance with consideration for developmental processes, technique, creative expression, and performance.

**DAN 4906 Directed Study** (1-5) VP DAN
PR: CI. CC. Independent studies in the various areas of Dance. Must receive approval prior to registration. May be repeated.

**DEC 4161 Program Management of Distributive and Marketing Education** (3) ED EDV
The study of the purposes, processes, organization, planning, directing, coordinating and evaluation of Distributive and Marketing Education Cooperative Programs.

**DEP 2004 The Life Cycle** (3) AS GEY
An examination of individuals and the physical, cognitive, personality, and social changes which occur throughout the entire life span.

**DEP 3103 Child Psychology SS** (3) AS PSY
Not for major credit. Developmental and psychosocial aspects of childhood, including hereditary, maturation, psychological, and social determinants of child behavior.

**DEP 4053 Developmental Psychology** (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

**DEP 4135 Psychology of Language Development** (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Available both to majors and non-majors. Survey the courses and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development.

**EAS 4175 Supervised Practicum and Field Experience in Applied Behavior Analysis** (1-6) AS PSY
PR: PSY 4933 with a grade of B or better. Does not count toward major credit. S/U only. Field experience in Behavior Analysis in applied settings. Under the supervision of a research design, implementation and evaluation of behavior analysis methods in applied settings. Includes both field practicum and didactic components. May be repeated for a maximum of 6 hours. Does not count toward major credit (S/U only).

**EAP 1850 English for Foreign Students I** (3) AS WLE
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

**EAP 1851 English for Foreign Students II** (3) AS WLE
PR: EAP 1850 or CI. A continuation of EAP 1850. Emphasis on reading and composition.

**EAS 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 3023C Process Engineering 1: Algebraic and Graphical Description** (4) EN ECH
PR: EGN 3343. CR: CHM 4410 or ECH 4123C. Integration of previous knowledge into the definition of reactors and separation processes, through the hierarchical use of material balance, process design and stability and control analysis. Representation of streams as arrows and processes as black boxes in Box Flow Diagrams, BFD. Application of degree of freedom analysis.

**ECH 3023L Chemical Engineering Laboratory II** (1) EN ECH
PR: EGN 3343; CP: ECH 3023C. The theory and application of chemical engineering instrumental measurement methods: density, temperature, flow, pressure, viscosity, refractive index, humidity, gaseous and liquid composition, and pH/lth selective electrodes (ISE) and their implementation and evaluation of behavior analysis methods in applied settings. Under the supervision, involves the design, implementation and evaluation of behavior analysis methods in applied settings.

**ECH 3702 Instrument Systems I** (4) EN ECH
PR: EGN 3373. Application of discrete logic operations for sensor interfaced and process control situations in Chemical & Mechanical Engineering, use of programmable logic controllers in process control. Introduction to the use of personal computer I/O interface cards of control application.

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

**ECH 4264 Transport Phenomena** (4) EN ECH

**ECH 4265C Process Engineering 2: Separation Processes** (4) EN ECH
PR: ECH 3023C, ECH 4264, CHM4410 or ECH4123C. 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 4265L Chemical Engineering Laboratory II** (1) EN ECH
CP: ECH 4265C. Chemical Engineering processes laboratory experiments: fluid flow, heat transfer, phase and chemical equilibria, reacting systems, and process control.

**ECH 4323C Automatic Control I** (4) EN ECH

**ECH 4415C Process Engineering 3: Reacting Systems** (4) EN ECH
PR: ECH 3023C, CHM 4412. Integration of chemical equilibrium and kinetics, heat transfer and fluid mechanics into the hierarchical description of reacting systems. Analysis and selection of operating conditions and contacting models. Sizing. Restricted to department majors.

**ECH 4415L Chemical Engineering Lab III** (1) EN ECH
Chemical Engineering Processes laboratory experiments: fluid flow, heat transfer, reacting systems, and process control.

**ECH 4615 Plant Design MW** (4) EN ECH
ECT 2023 Economic Principles (Microeconomics) SS (3) BA ECH
Introduction to the theory of price determination. How an economy decides what to produce, how to produce, and how to distribute goods and services.

ECT 2935 Selected Topics in Macroeconomics (1-3) BA ECH
Not available for credit to upper-level students admitted to the College of Business. Topics selected by department. May be repeated if topics vary.

ECT 3106 Managerial Economics (3) BA ECH
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 ECO 3101 and ECO 3106.

ECT 3101 Intermediate Price Theory (3) BA ECH
PR: ECO 2023. The price system and allocation of scarce resources between competing uses. May not receive credit for both ECO 3100 and ECO 3101.

ECT 3203 Intermediate Macroeconomics (3) BA ECH
PR: ECO 2013 and ECO 3100 or ECO 3101 with a grade of "C" or better. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.

ECT 3622 American Economic History (3) BA ECH

ECT 3703 International Economics MW (3) BA ECH

ECT 4105 Advanced Price Theory (3) BA ECH
PR: ECO 3100 or ECO 3101 with a grade of "B" or better. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under uncertainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

ECT 4201 Advanced Macroeconomic Theory (3) BA ECH
PR: ECO 3203 with a grade of "B" or better. An advanced analysis of a particular topic or topics in macroeconomics. Areas of study include the theories of money, growth, and business cycles. Discussions of how such theories accord with the data are also presented.

ECT 4303 History Of Economic Thought (3) BA ECH

ECT 4323 Radical Political Economy MW (3) BA ECH
PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. The radical (left) and Marxist schools of thought in economics. Application of radical theory to problems of advanced capitalist and socialist societies.

ECT 4401 Introduction to Mathematical Economics (3) BA ECH
PR: ECO 3100 or 3101, and MAC 2241 or MAC 2253 or CI. Mathematical models of optimizing behavior and economic equilibrium.

ECT 4421 Introduction to Econometrics (3) BA ECH
PR: ECO 3100 or 3101, and QMB 3200 with a grade of "B" or better or CI. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of auto-correlation, heteroscedasticity, multicollinearity, and specification errors.

ECT 4504 Public Finance (3) BA ECH

ECT 4713 International Macroeconomics (3) BA ECH
PR: ECO 3100 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.

ECT 4723 International Trade and Policy (3) BA ECH
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.

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

ECT 4914 Independent Research (1-3) BA ECH
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually...
ECS 4003 Comparative Economic Systems
ECP 4505 Economics of Crime (3) BA ECN
ECP 4451 Law and Economics (3) BA ECN
ECP 4232 Collective Bargaining and Public Policy (3) BA ECN
ECP 3613 Economics of the Urban Environment
ECP 3530 Economics of Health (3) BA ECN
ECO 4935 Selected Topics in Economics (1-3) BA ECN

nations.

enforcement, sanctions, and corrections.
The analyses of criminal behavior, crime prevention, law
PR: ECO 2013 and ECO 2023. Application of economic theory to
the formation and adjudication of law.
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.
PR: ECO 2013 and ECO 2023. Application of economic theory to
the analyses of criminal behavior, crime prevention, law
enforcement, sanctions, and corrections.
PR: ECO 2013 and ECO 2023. Economic development in emerging
nations.

AF MW 3) BA ECN
PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. The major economic
systems: traditional, capitalism, democratic socialism, communism
and fascism.

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ECP 3530 Economics of Health (3) BA ECN
PR: ECO 3100 or ECO 3101 with a grade of “C” or better.

The economics of resource use and pollution control are examined using
the concepts of externalities, cost-benefit analysis, public goods,
and property rights.

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 4202 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
PR: ECO 2013 and ECO 2023. Application of economic theory to
the analyses of criminal behavior, crime prevention, law
enforcement, sanctions, and corrections.

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

ECS 4430 Economics of Latin America AF MW (3) BA ECN
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 explores 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 4990 Directed Study: Elementary Education (1-4) ED EDE
PR: Senior standing. To extend competency in teaching field.

EDE 4940 Internship: Elementary Education (10-12) ED EDE
PR: EDE 4941 and ED 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 4994 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 experience 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, EDE
4301, MAE 4310, SCE 4310, LAE 4414, SSE 4313, EME 2040. S/
U only. Students spend 12 hours per week in a supervised
internship experience in classroom settings and attend a weekly
seminar.

EDE 2005 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
research methods and teaching as a profession. Includes lecture
and field experience.

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

EDE 3141 Human Development And Learning (3) ED EDF
PR: Consent permission by admission to College of Education.
Application of respondent and operant learning principles to
classroom learning, teaching models for different instructional
goals, analysis of teacher behavior, micro-teaching.

EDE 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.

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

EDE 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.

EDE 4311A 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.

EDE 4430 Measurement For Teachers (3) ED EDQ
PR: Upper level standing. Concepts and skills related to designing
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.

EDE 4995 Independent Study: Educational Foundations (1-4) EDE EDF
PR: DPR. S/U only. Specialized independent study determined by
the student’s needs and interests.

EDE 4990 Directed Study: Educational Foundations (1-3) ED EDF
PR: Senior Standing. Offered only as a scheduled class.
To extend competency in teaching field.

EDE 5607 Trends in the Social-Political Foundations of Schooling
in the United States (3) ED EDE
Current debates re: purpose and practice of formal schooling in the U.S.
in historical and sociopolitical perspectives. Satisfies
social foundations requirements for Fla. Teacher certification and
Basic competency in knowledge of intercultural issues in
education.

EDG 2701 Teaching Diverse Populations and Field Experience
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.

EDG 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 explores 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.

EDG 4905 Independent Study: Elementary Education (1-4) ED EDE
S/U only. Specialized independent study determined by
the student’s needs and interests.
context of the U.S. as a pluralistic society. Topics include: the demographic diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

EDG 4320 Introduction to Creative Drama (3) VP EDD
This course introduces classroom teachers to 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 EDC
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 EDC
PR: Senior standing. Offered only as a scheduled class. Department permit required. To extend competency in teaching field.

EED 4008 Literature in Early Childhood Education (3) ED EDU
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

EED 5008 Literature in Early Childhood Education 6A LW (9) ED EDC
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.

EEC 4203 Programs for Young Children (3) ED EDU
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.

EEC 4211 Integrated Curriculum: Science and Mathematics (3) EEDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Develops an understanding of science and mathematical concepts for the appropriate stages of cognitive development of young children. Emphasis will be placed on how science and mathematics are integrated throughout the curriculum and become valued functional tools.

EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Develops an understanding of appropriate curriculum experiences in social science, humanities, and arts for kindergarten and primary grades with an emphasis on integrated experiences, and sociological influences such as culture, ethnicity, language and gender impact understandings, values, general and social studies.

EEC 4300 Cognitive Experiences for Young Children (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 8 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

EEC 4303 Creative and Affective Experiences for Young Children (3) ED EDU
PR: Admission to College of Education. Early Childhood majors only. Develops students’ understandings of children’s creative expression through art, music, movement, play and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.

EEC 4408 Child, Family & Teacher Relations (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Focuses on developing an understanding of traditional and non-traditional families, structural and lifestyle variations and parenting in diverse cultures and at-risk families. Implications from these understandings will guide development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings and home visits.

EEC 4706 Language and Emerging Literacy (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESL children.

EED 4011 Introduction to Behavior Disorders (3) ED EDS
PR: EEX 4011, or equivalent or DPR. Survey of emotional, behavioral and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

EED 4999 Directed Study: Behavior Disorders (1-3) ED EDS
PR: Senior standing. DPR. To extend competency in teaching field.

EEL 2161 Electrical Engineering Computer Methods (3) EN EGE
Use of computers to perform analysis, simulation, and design of Electrical Engineering systems. Use of computer systems, including Internet resources. Use of analytical software. Computer programming in C++ for the solution of Electrical Engineering problems.

EEL 3100 Network Analysis and Design (3) EN EGE
PR: EGN 3373. A course in the physical principles of electronic devices with emphasis on semi-conductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEL 4102 Linear Systems Analysis (3) EN EGE
PR: EGN 3373. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.

EEL 4243 Switching Power Supply Design (3) EN EGE
PR: EEL 4301 provides the basic principles of switching power supply circuits: magnetic circuits, power semiconductors, Buck, Boost, and Flyback configurations, dc to dc converters, dc to ac inverters. Requires the design and construction of a switching power supply.

EEL 4301 Electronics II (3) EN EGE
PR: EEL 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

EEL 4305 Communications Electronics (3) EN EGE
EEL 4351C Semiconductor Devices (3) EN EGE
PR: EEL 4301 or EEL 4306 or EEL 4351. (Electronic Materials) An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

EEL 4420 RF & Microwave Measurements (2-3) EN EGE
PR: EEL 4316L or CR. 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, noise, power, and non-linear distortion measurements. Modern trends also are treated the use of on-wafer measurements for transistors 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.

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. Not available on an S/U basis.

EEL 4471 Electromagnetics MW (3) EN EGE
PR: MAP 2302, PHY 2049, PHY 2049L and majors or CI. Electromagnetic field theory, including static and dynamic electromagnetic 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 Electo-Optics (3) EN EGE
PR: EEL 3301L, EEL 3302L, EEL 4471. An introduction to the field of electro-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.

EEL 4571 Linear Control Systems (3) EN EGE

EEL 4705 Logic Design (3) EN EGE
PR: EGN 3373. 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. Develop designs and demonstrate 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 3201C, 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 Signal and Image Processing (3) EN ESB
PR: EGN 4450, EEL 4851C. Sampling and quantization of signals and images; frequency-domain representations, transforms; filtering, convolution, and correlation; low-level image analysis algorithms; color images; fast methods and parallelism.

EEL 4781C Distributed Processing and Computer Networks (1) US 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. Fundamentals of data structure and organization for purposes of program efficiency, clarity and simplification. Implementation different data types and structures. Understanding of current data structures for computer applications.

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

EEL 4954 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 4955 Independent Study (1-5) EN EGE
PR: CI. S/U only. Specialized independent study determined by the students’ needs and interests.

EEL 4906 Professional Issues and Engineering Design MW (2) EN EGE
CR: EEL 4301, EEL 4512C, 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
CR: EEL 4301, EEL 4512C, 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 4937 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 4301 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 5358 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 behavior; semiconductor properties.

EEL 5437 Microwave Engineering (3) EN EGE
PR: EEL 4471, EEL 4102, or GS. Introduction to passive and active components, devices, and circuits, including transmission lines and wave guides, employed in microwave integrated circuits and systems.
EEX 4604 Behavior Management for Special Needs and At-Risk
PR: EEX 4471 or GS. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.

EEX 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 5631 Digital Control Systems (3) EN EGE
PR: EEL 4657 or GS. Sample data and digital control processes

EEL 5744C 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 microprocessors; multiprocessing hardware and software. System development. Application to telecommunications and voice processing.

EEL 5771 Introduction to Computer Graphics I (3) EN ESB
PR: EEL 4571. 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 5937 Special Electrical Engineering Topics III (1-3) EN EGE

EEX 4011 Foundations of Special Education (3) ED EDS
PR: DPR. CR: EEX 4941. 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 department 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 projects are included.

EEX 4221 Educational Assessment of Exceptional Students (3) ED EDS
PR: EDF 3214, 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) ED EDS
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 64 LW (3) ED EDS
DPR. This course is designed to provide students with tools to learn about and maintain interpretations about people with disabilities; their families and those who play an educational role in their lives. These tools address issues of social interaction and diversity while focusing on the role of the social context in shaping the process of teaching and learning.

EEX 4846 Clinical Teaching in Special Education (3) ED EDS

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) EEDDS
PR: Senior standing. DPR. To extend competency in teaching field.

EEX 4936 Senior Seminar in Exceptional Student Education (1) EEDDS

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

EEX 4941 Practicum in Exceptional Student Education (1-4) ED EDS
CR: Sem I: EEX 4011; Sem II: EEX 4604; Sem III: EEX 4221 and EEX 4946. Designed to provide 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
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 programs.

EEX 5752 Working With Families: A Pluralistic Perspective (3) EEDDS
PR: Introductory course in special education, GS. The impact of the socioeconomic 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.

EGI 4941 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 5325 Theory and Development of Creativity (3) ED EDS
Exploration of the concept of creativity, its factors, measurement, and implication 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 5401 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

EGN 2051 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, etc.

EGN 2082 History of Electrotechnology HP (3) EN EGB
Highlights of the history of electrotechnology and its relation to the development of civilization. The contributions of Volta, 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 2810 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
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 3321 Dynamics (3) EN EGB  
PR: EGN 3311. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.

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

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

EGN 3334 Thermodynamics (1) EN EGB  

EGN 3353 Basic Fluid Mechanics (3) EN EGB  

EGN 3358 Thermodynamics, Fluids, and Heat Transfer (4) EN EGB  
PR: PHY 2049. 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.

EGN 3365 Materials Engineering I (3) EN EGB  
PR: CHM 2046, CR: EGN 3311. Structure and property relationships in engineering materials, i.e., metals, ceramics and polymer systems. Environmental effects are also treated.

EGN 3373 Introduction to Electrical Systems I (3) EN EGB  

EGN 3375 Electromechanical Systems (3) EN EGB  

EGN 3420 Engineering Analysis (3) EN EGB  
PR: MAC 2282. Introduction to aspects of matrix algebra and complex algebra which are essential in engineering; simultaneous equations, connection matrices, basic eigenvalue theory, the complex exponential.

EGN 3433 Modeling and Analysis of Engineering Systems (4) ENEG  
PR: MAC 2283, PHY 2049. 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.

EGN 3443 Engineering Statistics I (3) EN EGB  
A study in analyzing the economic limitations imposed on engineering activities using basic models which consider the time value of money.

EGN 3615 Engineering Economics with Social and Global Implications SS (3) EN EGB  
Prerequisite 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.

EGN 3665 Materials Engineering II EN EGB  
PR: EGN 3365. Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to polymeric materials.

EGN 4420 Numerical and Computer Methods in Engineering (3) EN EGB  

EGN 4450 Introduction to Linear Systems (2) EN EGB  
PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.

EGN 4831 Technology and Society MW (3) EN EGB  
Non-technical survey of engineering activities: utilities, nuclear power, genetics weaponry, space, etc. Students conduct individual in-depth study of environmental/ethical problem.

EGN 4905 Independent Study (1-5) EN EGB  
PR: CI. Specialized independent study determined by the students' needs and interests.

EGN 4930 Special Topics in Engineering (1-3) EN EGB  
PR: CI. New technical topics of interest to engineering students.

EGN 5421 Engineering Applications for Vector Analysis (3) EN EGB  
Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

EGN 5422 Engineering Applications of Partial Differential Equations (3) EN EGB  

EGN 5423 Neural Networks and Mathematics for Communication (3) EN EGB  

EGN 5424 Engineering Applications of Complex Analysis (3) EN EGB  
Analytic functions, conformal mapping, residue theory. Laurent series, transforms. Applications to various problems in engineering and physics.

EGN 5425 Engineering Applications of Advanced Matrix Computations (3) EN EGB  
Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control systems and finite element applications.

EGS 1113 Introduction to Design Graphics (3) EN EGB  
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.

EIA 3192 Technology Education and Society (4) ED EDV  
Introduction to programs, facilities and opportunities in teaching Technology Education. Includes historical, current and futuristic implications of technology in society.

EIA 3460 Special Teaching Methods: Technology Education (3) ED EDV  
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.

EIN 3412C Technology Education and Society (3) EN EGB  
Introduction to programs, facilities and opportunities in teaching Technology Education. Includes historical, current and futuristic implications of technology in society.

EIN 3533 Production Control (3) EN EGS  
PR: ESI 4312C. Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 3532 Engineering Cost Analysis (3) EN EGS  
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 and manufacturing applications.

EIN 3646C Facilities Design (3) EN EGS  
PR: EIN 3412C, EIN 4411; CR: ESI 4221, EIN 4333. Design and modification of industrial production and material handling facilities. Basic analysis and techniques, use of computer programs, automated warehousing.

EIN 3635 Capstone Design MW (3) EN EGS  
PR: EIN 4364; CR: ESI 4523. Course requires students to design an enterprise incorporating tools, techniques and approaches from industrial and management systems engineering. Students
EMA 4324 Corrosion of Engineering Materials I (3) EN EGX
PR: EGN 3365. 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.

EML 4230 Introduction to Composite Materials (3) EN EGR
PR: EML 4501. Introduction to friction, lubrication and wear. Contact of real surfaces, mechanics of friction, surface failures, boundary lubrication fluid properties, thin film lubrication, thick film lubrication, bearing and lubricant selection.
EMR 4011 Mental Retardation and Developmental Disabilities (3) ED EDS
PR: EME 3372. Introduction to the area of mental retardation and developmental disabilities with particular emphasis on the educational aspects. This course is required by the state for certification in mental retardation.

EMR 4230 Educating the Severely/Profoundly Handicapped (3) EDEDS
PR: EMR 3011 or DPR. Emphasis on educational methods and materials for teaching children with severe/profound handicaps, practice/field experience required.

EMR 4909 Directed Study: Mental Retardation (1-3) ED EDS
S/U. May be repeated when subjects vary. DPR. Specialized independent study determined by the student's needs and interests.

EMR 4325 Mechanical Manufacturing Processes (3) EN EGR
PR: EME 3372. Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

EMR 4355 Motor Selection and Control (3) EN EGR
PR: ENG 3373 Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection, starting, and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices.

EMR 4414 Power Plant Engineering (3) EN EGR
PR: ENG 4108C. The study of large scale thermo-electric power conversion for utility systems. Combustion of hydrocarbon fuels, furnace, steam generated auxiliary system design. Topics include control of our emissions, design and performance of combined power facilities.

EMR 4415 Propulsion (3) EN EGR
PR: EME 3701, EME 3500 or CI. Introduction to the design of propulsion systems. Basic analysis of internal combustion, jet and rocket engines. Application to ground and air transportation. Advanced propulsion concepts. Special topics for class discussion.

EMR 4421 Internal Combustion Engines (3) EN EGR
This course emphasizes fundamental concepts, energy conversions, thermodynamics, chemical engineering, electronics and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanisms and emission control of exhaust pollutants.

EMR 4501 Machine Design (3) EN EGR
PR: EME 3500. Designed to teach students to apply the principles of manufacturing engineering mechanics, materials and manufacturing to the design/analysis of machine elements and mechanical systems. Emphasis is given toward good design practice as well as pitfalls that can result in a catastrophic failure.

EMR 4551 Capstone Design MW (3) EN EGR
CR: EME 4501. EME 4124. Descriptive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS, CAD AND Pro/E.

EMR 4562 Introduction to Composite Materials (3) EN EGR
PR: EME 3500 and EME 3041. The course introduces manufacturing types and applications of advanced composites. Students study micromechanical and macromechanical behavior of a lamina and analyze and design a laminated structure made of advanced composite materials.

EMR 4601 Air Conditioning Design (3) EN EGR

EMR 4905 Independent Study (1-4) EN EGR
PR: CI. Specialized independent study determined by the student's needs and interests.

EMR 4930 Special Topics in Mechanical Engineering (1-4) EN EGR
PR: CC.

EMR 4930 Special Topics III (1-4) EN EGR
PR: CC.

EMR 4011 Mental Retardation and Developmental Disabilities (3) ED EDS
PR: EEX 4011 or equivalent. This course is designed to provide students with a broad introduction to the area of mental retardation and developmental disabilities with particular emphasis on the educational aspects. This course is required by the state for certification in mental retardation.
discussion, make formal presentations, and complete a major research project.

ENG 4936 Honors Seminar II (3) AS ENG
PR: Admission to English Honors Program. CR: ENG 4935. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

ENG 4970 Honors Thesis (3) AS ENG
PR: ENG 4935, ENG 4936. For students writing honors theses.

ENL 315 British Literature to 1616 (3) AS ENG
A survey of representative prose, poetry, and drama from its beginnings through the Renaissance, including such poems and figures as Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, Sidney, Spenser, Shakespeare, Donne, and Jonson.

ENL 3230 British Literature 1616-1760 (3) AS ENG
A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

ENL 3251 British Literature 1780-1900 (3) AS ENG
The poetry and poetics of the Romantic figures, with attention to the continuing importance of Romantic thinking in contemporary affairs and letters, a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

ENL 3273 British Literature 1900-1945 (3) AS ENG
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O’Casey, and others.

ENL 3331 Early Shakespeare (3) AS ENG
A study of from five to eight of Shakespeare’s comedies, histories, and early tragedies, ending with Hamlet. 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 the English major.

ENL 4122 British Novel Through Hardy (3) AS ENG
A study of early and later British novels such as Fielding, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.

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 course may include such writers as Fielding 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: ENG 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 Engineering Lab (2) EN EGX
Laboratory experience in the measuring of environmental parameters.

ENV 4351 Solid Waste Engineering (2) EN EGX
Introduction to principles of integrated 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 and Treatment (3) EN EGX
PR: ENG 3353. An introduction to municipal water supply and wastewater treatment processes. Topics include: water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

ENV 4502 Water Treatment Engineering (3) EN EGX
PR: ENG 3353. CR: ENG 4931. The theory and design of unit operations normally used in the practice of environmental engineering, such as sedimentation and clarification, filtration, and leaching, gas absorption, adsorption and evaporation.

ENV 4503 Wastewater Treatment Engineering (3) EN EGX
PR: ECH 3023C, ENG 3353, ENV 4401. The theory and design of unit processes normally used in environmental engineering such as sedimentation of colloidal materials, water stabilization, water softening and neutralization, ion exchange, adsorption and oxidation processes for 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 processes 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 MW (3) EN EGX
CR: CWR 4103, ENV 4001, ENV 4417. A capstone environmental design experience for seniors in Civil and Environmental Engineering. A design oriented course to design both industrial and domestic water treatment and water transport systems and wastewater and collection systems. The course emphasizes the design procedure normally used in engineering practice.

ENV 5103 Air Pollution Control (3) EN EGX
PR: ENG 3353. Behavior and effects of atmospheric contaminants and the principles of measurement, control, and abatement in the 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: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558; or CI, majors only. An 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. (PR: undergraduate preparation in environmental engineering or an environmental science program)

ENV 5341 Solid Waste Control (3) EN EGX
PR: ENG 3353. Behavior and effects of atmospheric contaminants and the principles of measurement, control, and abatement in the environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 5503 Air Pollution Control (3) EN EGX
PR: ENG 3353. Behavior and effects of atmospheric contaminants and the principles of measurement, control, and abatement in the environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

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 not been offered in the fall semester and the laboratory section associated with the course, is not available on a S/U basis only, is not cross-listed with another department or college.

ENV 5343 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 not been offered in the fall semester and the laboratory section associated with the course, is not available on a S/U basis only, is not cross-listed with another department or college.

ENV 5345 Aquatic Entomology (3) AS BIO
PR: EGN 3353, or CI. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec., lab.

EPH 5601 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 5344 Classroom Management for a 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 5342 Teaching the Adolescent Learner (3) ED EDI**  
Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse secondary education population (ESOL, special education, multicultural, at-risk, etc.) in preparation for planning responsive standards-based instruction.

**ESE 5345 Classroom Management for a Diverse School and Society (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 social issues.

**ESI 4221 Industrial Statistics and Quality Control (3) EN EGS**  
PR: EGN 3443, EIN 4411. Application of statistical techniques to the control of industrial processes. Control charts, acceptance sampling, design of experiments, analysis of variance and regression.

**ESI 4244 Design of Experiments (3) EN EGS**  
PR: EGN 3443. Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

**ESI 4312 Deterministic O. R. (3) 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, integer programming, and PERT/CPM networks are considered.

**ESI 4313 Probabilistic O. R. (3) EN EGS**  
PR: COP 2510, EGN 4443. Probabilistic models in Operations Research. Discrete and continuous time processes, queuing models, inventory models, simulation models, Markovian decision process and decision analysis.

**ESI 4523 Industrial System Simulation (3) EN EGS**  
PR: ESI 4313. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

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

**ESI 4911 Senior Project (2) EN EGS**  
PR: EIN 4364, CR: EIN 4333, ESI 4523. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

**ESI 5219 Statistical Methods For Engineering Managers (3) EN EGS**  
Not open to students who have had EGN 4443. Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.

**ESI 5236 Reliability Engineering (3) EN EGS**  
PR: ESI 5219 or equiv., majors only: PR: EGN 4443 or equivalent. Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and safety. A focus on classroom management, school violence, school safety, educational law and other critical social issues.

**ESI 5306 Operations Research For Engineering Management (3) EN EGS**  
Not open to students who have had ESI 4315. ESI 5219 or equiv., majors only. Linear programming, non-linear programming, queuing, inventory, network analysis.

**ESI 5470 Manufacturing Systems Analysis (3) EN EGS**  
PR: CC, majors only. The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

**ESI 5522 Computer Simulation (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 3800 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 3801 Work Design and Ergonomics I (3) EN ESB**  
PR: STA 2023. This course teaches the students the fundamental concepts of managing a quality assurance system.

**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.

**EUH 2011 Ancient History I HP (3) AS HTY**  
An introductory survey of ancient history. EUH 2011 treats the period from the Renaissance to the French Revolution, followed by 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 Medieval History I HP (3) AS HTY**  
A thematic survey of the Middle Ages. EUH 2021 deals with the nascent, Christian civilization of Europe, circa 300-1050 A.D.

**EUH 2022 Medieval History II HP (3) AS HTY**  
A thematic survey of the Middle Ages. EUH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.

**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 3142 Renaissance and Reformation (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.

**EUH 3181 Medieval Culture (4) AS HTY**  
A survey of thought, culture, and art in the Medieval Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval Man's changing perception of himself and his world.

**EUH 3185 Viking History (4) 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 noblemen, peasants, townspeople, and the agrarian-urban economy and society which affected their lives.

**EUH 3189 Medieval Politics (4) AS HTY**  
A study into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

**EUH 3202 History of 17th and 18th 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 3305 History of Nineteenth Century Europe (4) AS HTY**  
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

**EUH 3306 History of Twentieth Century Europe (4) AS HTY**  
A comparative study of 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 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 the Roman empire 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 Germans 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 1668 (4) AS HTY**
A study of major developments in British history from the 15th century to 1668.

**EUH 3502 British History 1668 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 democratic welfare state.

**EUH 3574 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 expansion 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 treatment and experience of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.

**EUS 3000 European 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 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 trips.

**EVR 2861 Introduction to Environmental Policy (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) AS ESP**
PR: PCB 304R. Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.

**EVR 4900 Directed Readings (1-6) AS ESP**
To provide advanced students with interdisciplinary experience in areas of specific interest.
is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours.

EVT 4946 Supervised Field Experience: Industrial-Technical Education (1-6) ED EDV
PR: CI. SU only. Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.

EVT 5369 Preparation and Development for Teaching (4) ED EDV
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

EVT 5664 School Community Development (3) ED EDV
Identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement, and public support.

EXP 4104 Sensory Processes (3) AS PSY
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.

EXP 4204C Perception (3) AS PSY
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.

EXP 4304 Motivation (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.

EXP 4404 Psychology of Learning (3) AS PSY
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.

EXP 4640 Psychology of Language (3) AS PSY
Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. Current status of theory and research in the field.

EXP 4680C Cognitive Psychology (3) AS PSY
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.

FIL 2001 Film: The Language Of Vision 6A FA (4) VP ART
Exploration of the history of creative filmmaking from its beginnings to the present time. Open to both majors and non-majors.

FIL 3004 The Film as Mass Communication I: Syntax (3) AS COM
PR: MMC 2100 and MMC 3602 or DPR. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of nonverbal communication.

FIL 3201C Beginning Film (3) VP ART
Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

FIL 3510 World Cinema 6A FA (4) VP ART
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.

FIL 4202C Advanced Film (3) VP ART
PR: FIL 3510C. More advanced projects in filmmaking to further develop works both technically and conceptually.

FIL 4404 Social History of the Film, 1945 to the Present (3) AS COM
PR: MMC 2100 and MMC 3602 or DPR. The development of the film from 1945 to the present.

FIL 5205C Cinematography (4) VP ART
PR: PGY 451C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.

FIN 2104 Personal Finance (3) BA FIN
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.

FIN 2106 Introduction to Investments (3) BA FIN
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.

FIN 2935 Selected Topics in Finance (1-6) BA FIN
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.

FIN 3233 Money and Banking (3) BA FIN
PR: ECO 2013. Examines the structure and operations of our monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 Principles of Finance (3) BA FIN
PR: ACG 2071 or CI 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.

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 4305 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 the management of 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 4414 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 4414. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 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, SU only. 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 an 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 432 Technology in the Foreign and Second Language Classroom (3) ED EDX
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 EX

PR: FLE 4312 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 EDX

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 (LEP). Topics include: listening comprehension, grammar, pronunciation, reading, writing, and cultural awareness. A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for workshops in professional interpreting.

**FLE 4332 Methods of Teaching Foreign Languages and ESOL in the Secondary School** (3) ED EDX

PR: FLE 4314. Fluency in the target language and in English or DP. 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 4363 ESOL 2 - Literacy Development in English Language Learners** (3) ED EDX

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 EDX

PR: FLE 4362 and FLE 4363. This course provides an overview of the components of language, linking them to methods and techniques for providing comprehensible instruction to English Language Learners (ELLs) in grades K-12.

**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 EDX

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) ED EXD

PR: Senior standing. Required concurrently with internship. Synthesis of teacher candidate’s courses in complete college program.

**FLE 4950 Internship in 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 5345 Language Principles, Acquisition and Teaching** (3) ED EXD

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.

**FLE 5291 Technology in the Foreign Language Classroom** (3) ED EXD

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-service 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 EXD

This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for Limited English Proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.

**FLE 5430 ESOL I - Theory and Practice of Teaching English Language Learners** (3) ED EXD

This course is for undeclared or single degree holding, preprofessional (pre-service) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content area classes. Designed to provide training in the theory and 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 5432 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners** (3) ED EXD

PR: FLE 5431. This course provides an overview of the components of language, linking them to methods and techniques for providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.

**FLE 5433 Methods of Teaching Foreign Languages and ESOL in the Secondary School** (3) ED EDX

PR: FLE 4314. Fluency in the target language and in English or DP. 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 5434 ESOL Practicum** (3) ED EDX

PR: FLE 5345 and FLE 5145. Must be taken in the semester prior to final internship. This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.

**FLE 5946 Practicum in Foreign Language/ESOL Teaching** (3) ED EXD

PR: FLE 5313. CR: FLE 5331. This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see teachers in action.

**FOL 3100 General Foreign Language I (1-4) AS WLE**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.

**FOL 4101 General Foreign Language II (1-3) AS WLE**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.

**FOL 4905 Directed Study (1-3) AS WLE**

Departmental approval required.

**FOL 5906 Directed Study (1-3) AS WLE**

CR: FOL 4101 or equivalent.

**FRE 1120 Beginning French I (4) AS WLE**

CR: FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

**FRE 1120L Beginning French I Laboratory (1) AS WLE**
FRE 1121 Beginning French II (4) AS WLE
PR: FRE 1120 or equivalent. CR: FRE 1121L. A continuation of FRE 1120.

FRE 1121L Beginning French II Laboratory (1) AS WLE
CR: FRE 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.

FRE 1170 Overseas Study-Elem. French (4) AS WLE
Departments of Foreign Language require. Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121.

FRE 2200 French III (3) AS WLE
PR: FRE 1121 or equivalent. A review of the basic structure of French.

FRE 2201 French IV (3) AS WLE
PR: FRE 2240 or equivalent. Readings in French on the intermediate level.

FRE 2240 Conversation I (3) AS WLE
PR: FRE 2240 or equivalent. Proficiency. 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 (1-6) AS WLE
PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required.

FRE 3230 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 main French speaking cultures 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 4392 African Images in Francophone Film HP AF SS MW (3) AS WLE
This 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 5425 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 or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various cultural movements. Texts 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 MW (3) AS WLE
A survey of the major literary 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 3230, FRE 3420 or CI. Study of the most representative novels from the 17th-20th centuries in France, examining literary movements, ideas, and techniques. Course taught in French.

FRW 4826 Introduction to French Drama and Poetry MW (3) AS WLE
PR: FRE 3230. A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouillh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Péguy, Eliard, 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 5226 20th Century Poetry and Theatre (3) AS WLE

FRW 5236 The 20th Century Novel (3) AS WLE
PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5314 Classical Drama (3) AS WLE
PR: FRW 4101. Corneille, Moliere, and Racine.

FRW 5415 Literature of the Middle Ages (3) AS WLE
PR: FRW 4100 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.

FRW 5425 Literature of the Renaissance (3) AS WLE
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleide poets.

FRW 5445 18th Century Literature (3) AS WLE
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5528 Pre-Romanticism (3) AS WLE

FRW 5535 Romanticism and Early Realism (3) AS WLE
PR: A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.

FRW 5556 Naturalism and Realism (3) AS WLE
PR: FRW 4100 or FRW 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.

FRW 5745 French Literature of Quebec (3) AS WLE
PR: A survey of French literature and cultures. It 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 trends 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 SubSahara Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Course 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.

FSH 5311 Introduction to Food Production Management (3) US HRM
Food preparation, standards and techniques in commercial food production and service. Factors affecting the quality of food, potential health and food safety and cost control.

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

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

GEO 3300 Geography of Middle America (4) AS GPY
GEO 3405 Geography of Latin America 6A (4) AS GPY
GEO 3500 Geography of Europe 6A (4) AS GPY
GEO 3703 Geo of Asia (4) AS GPY

GEO 2350 Doing Business Around the World SS (3) BA GBA
This course introduces the student to: 1) the nature of international business; 2) the framework of international organizations and the monetary system within which international business functions; 3) forces affecting international business, and 4) management responses to problems caused by international environment.

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

GEB 4900 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 4905 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 of the analysis of contemporary events in various parts of the world.

GEO 2000C Map Interpretation (4) AS GPY
Analysis and synthesis of various types of maps and map projections.

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

GEO 2200L Introduction to Physical Geography Lab (1) AS GPY
CR: GEO 2200L. 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. Relevant impact of human activities on the surface of the earth at local and global scales.

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

GEO 3164C Research Methods in Geography (4) AS GPY
PR: STA 2023 or STA 2122 or QMB 2100. Statistical analysis in geographic research.

GEO 3180 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.

GEO 3602 Urban Geography (4) AS GPY
PR: GEO 2420 or CI. Spatial analysis of urban areas: growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 4114C Geographic Techniques and Methodology (4) AS GPY
PR: GEO 3180 and GEO 3164C, or CI. Selected topics in various geographic techniques and methodologies and their application.

GEO 4131C Remote Sensing of the Environment (4) AS GPY
PR: GEO 3180 and GEO 3164C, or CI. Analysis of satellite images and aerial photographs for studies of the environment.

GEO 4151C Geographic Information Systems (4) AS GPY
PR: GEO 3180 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.

GEO 4201C 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 topics. Students will take an in-depth look at hurricane climatology, the El Nino and Southern Oscillation phenomenon, thunderstorms and lightning, satellite remote sensing, monsoons, and the movement of atmospheric phenomena on the Earth.

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 4300 Aligography (4) AS GPY
Admission: GEO 2200 and GEO 3164C, or CI. Analysis of the present and past distribution of species at an intermediate to large scale.

GEO 4340 Natural Hazards (4) AS GPY
PR: Junior or Senior Standing. Examination of the physical, social, economic, political, and cultural forces that create the phenomena of natural hazards. Case studies from around the world will include floods, droughts, tornadoes, hurricanes, freezes, heat waves, wild fires, earthquakes, tsunamis, and volcanoes.

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

GEO 4421 Cultural Geography (4) AS GPY
PR: GEO 2200 or CI. The interrelationships of culture and nature, from ancient times to the present.

GEO 4470 Political Geography MW (4) AS GPY
PR: GEO 2200 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4502 Economic Geography (4) AS GPY
PR: GEO 2200 or CI. The spatial organization of economic production, consumption, and exchange systems.

GEO 4604 Topics in Urban Geography MW (4) AS GPY
PR: GEO 3802, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, gentrification, transportation, and policy-making.

GEO 4700 Transportation Geography (4) AS GPY
PR: GEO 2200 and GEO 3164C, 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 Individual Research (1-4) AS GPY
PR: 20 hours in geography and CI prior to registration.

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.

GEO 5134C Advanced Remote Sensing (4) AS GPY
PR: GS in Geography or CI. GEO 4124C. Study of digital image processing techniques. Topics include filtering techniques, geometric and radiometric normalization, and classification algorithms with emphasis on developing.

GEO 5187 Advanced Geographic Information Systems (3) AS GPY
PR: GS in Geography or CI. Spatial problem solving utilizing GIS mapping and statistical methods. The course is designed to give students hands-on experience in using computerized techniques for geographic analysis.

GEO 5177 GIS for Non-Majors (3) AS GPY
An introduction to the concepts underlying digital thematic mapping and geographic information systems (GIS) for non-geography majors and non-geography graduate students.

GEO 5215 Advances in Geomorphology (3) AS GPY
PR: GEO 4372 or CI. Advanced examination of geomorphic processes and landforms with an emphasis on Florida.
PR: GEO 4372 or CI. A systematic approach to hydrology using the drainage basin as the fundamental unit of analysis is used to explore form and process, while modeling streamflows.

GEO 5347 Advances in Natural Hazards (3) AS GPY
PR: GEO 4372 or CI. Analysis of natural hazards integrating principles of physical, social, economic, political, and technical forces that affect extreme geophysical events.

GEO 5475 Advanced Political Geography (3) AS GPY
PR: GEO 4470 or CI. Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policy making.

GEO 5545 Advanced Economic Geography (3) AS GPY
PR: GEO 4502 or CI. An intensive examination of selected issues in economic geography including: regional development and decline; spatial labor market trends; business locational analysis; and comparative economic policy.

GEO 5605 Contemporary Urban Issues (3) AS GPY
PR: GEO 3602; GEO 4604; or CI. Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city ethnic relations, the geopolitics of urban governance, and urban culture.

GEO 5704 Advanced Transportation Geography (3) AS GPY
PR: GEO 4114, GEO 4700; or CI. Review of transportation issues and analysis. Focusing on modeling and planning for flows of goods and people. Provides a hands-on approach to use of GIS for such analysis.

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

GER 1121L Beginning German II 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 2200 German III (3) AS WLE
PR: GER 1121 or equivalent. A 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 4410 Composition 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. S/U only. Required, and, if dropped, then dropped simultaneously. S/U only.

GER 5605 Goethe (3) AS WLE
Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm, Meister, Westöstlicher Divan.

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.

GER 3100 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.

GER 4293 New German Romance to Present MW HP (4) AS WLE
An overview of post-1945 Ger fims with emphasis on films fr New Ger Cinema (1960s-early 80s) & its aftermath. Course offers insights into Germany's artistic, intellectual, and social history, as well as general film history and criticism. Taught in Eng.

GEW 4100 Survey of German Literature I (3) AS WLE
Course will examine a variety of texts from the 9th to the early 13th century, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Not repeatable.

GEW 4101 Survey of German Literature II (3) AS WLE
Course will examine a variety of texts from the 19th century to the present, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Course not repeatable.

GEW 4750 Women in Contemporary German Literature and Film HP (3) AS WLE
PR: GER 2200 or above or CI. This course serves as an introduction to contemporary literary works and films by women writers and directors from German speaking countries. It will examine the works based on feminist literary and cultural theory.

GEW 4900 Directed Study (1-3) AS WLE

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

GEW 5475 20th Century Literature to 1945 (3) AS WLE
A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.

GEW 5489 20th Century Literature: 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, Fuchsmann.

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

GEW 5545 Romanticism (3) AS WLE
A study in meeting the care needs of the older adult. All aspects of case study.

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

GEW 5606 Faust (3) AS WLE
PR: Upper-level or graduate standing. Study of an author, movement or theme.

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

GEW 5934 Selected Topics (1-3) AS WLE
PR: Upper-level and thought. 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 multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

GEY 3323 Community Services for Older Adults (3) AS GEY
This course is designed to introduce students to services available 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 3601 Physical 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 6A SS AF (3) AS GEY
Consideration of humanaging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and anthropologic aspects of aging, theories of social 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
The course examines the role and function of case management in meeting the care needs of the older adult. All aspects of
management practice are covered, including the elements of the long-term care processes as well as ethical and legal issues.

GEY 4327 Long-Term Care Administration I (3) AS GEY
PR: GEY 2000. A survey of Long Term Care (LTC) environments. Explored are such issues as definitions of LTC, physiological conditions in LTC uses, the institutional setting, the sociopsychological context, and methods of evaluation and intervention.

GEY 4328 Long-Term Care Administration II (3) AS GEY
PR: GEY 4327, AGC 2011, each with a grade of C or better. Administration of long-term care institutions from a group dynamics perspective. Emphasis on informed problem solving and decision-making via analysis of the psychosocial and sociocultural environments in nursing homes. Course objective is to create efficient and humane living and working conditions in nursing homes.

GEY 4340 Housing for the Elderly (3) AS GEY
Major issues and aspects of conventional and planned housing for the elderly.

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 2124 or STA 3024 or STA 4303, each with a grade of C or better. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological 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 psychopathology.

GEY 4628 Minority Aging SS (3) AS GEY
Minority status, race, and ethnicity are socially constructed concepts that reflect our aging society’s value systems, prejudices, and social stratification. This course will expose students to these concepts through a life course and political economy perspective.

GEY 4635 Business Management in an Aging Society XMW (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 the 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 along with community resources.

GEY 4647 Ethical and Legal Issues of Long Term Care 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 4900 Directed Readings (1-3) AS GEY
PR: CR. A directed 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 preretirement, 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: CR. 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 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 perspectives on death and dying, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

GLY 2000 Earth 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 2010 Dynamic Earth: Introduction to Physical Geology NS (3) AS GLY
Required for Geology majors; open to non-majors. Study of minerals, rocks, and dynamic processes of the earth. Introduction to the origin of earth’s materials, landforms, and structures.

GLY 2010L Dynamic Earth Laboratory (1) AS GLY
PR: GLY 2010 or concurrent registration. Required for Geology majors; open to non-majors. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lec-lab-field trips.

GLY 2015L Essentials of Geology Laboratory (1) AS GLY
A fundamental course with topics in carbonate, clastic, and chemical rocks, mineralogy, optical properties, geologic structures, and geologic maps. Required field trip.

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, depletions of the earth’s resources, water-supply problems, and geologic aspects of land use and planning.

GLY 2040 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, revolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)

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 (e.g., extinction of the dinosaurs, continental drift, evolution) but also from physics and astronomy. Consideration of social relevance of science.

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.

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

GLY 2930 Selected Topics in Geology (1-3) AS GLY
Does not count towards any major. May substitute for GLY 2010 for geology majors. Topical courses in geology of general interest.

GLY 3311C The Solid Earth: Petrology and Geochemistry (4) AS GLY
Lava and metamorphic rocks of modern and ancient tectonic environments. Rock-forming processes at plate margins and intraplate sites. Essentials of hand specimen and microscopic mineralogy. Required field trip. Lec-lab. May not be repeated for credit.

GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure (4) AS GLY
PR: 4 hrs. introductory geology including GLY 2015L; MAC 2312 or equivalent; PHY 2048. Plate tectonic theory and its implications: the formation of structural features on outcrop and regional
GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology (4) AS GLY
PR: GLY 2015L, 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 biostatigraphy, taphonomy, paleoecology, and micro- and macroevolutionary 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 2015L; 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 XMW (3) AS GLY
PR: Junior standing, in 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 2015L, 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, deposition, and transportation of sediments, 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, policies, and environmental law.

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 4805 Geology and Development of Modern Africa MW (3) AS GLY
An in-depth look at how geology has affected the politics, history and culture of Africa. Units include the Nile and hydropolitics, deserts and climate, rifting and hominid evolution, and mining and development issues. Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation.

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: Graduate standing in Geology. 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, preparation and presentation 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.

GLY 4930 Selected Topics in Geology (1-3 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, or CI. CR: Enrollment in other Practical/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.

GLY 4947L Practical and Applied Geology: Laboratory 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 laboratory skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4948L 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 computational skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4949L Practical and Applied Geology: Computational 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 laboratory skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4970 Undergraduate Honors Thesis (3) AS GLY
Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation.

GLY 5752 Geological Field Excursion (2) AS GLY
PR: Senior standing in geology or CI. Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of topographically complex terrain. Mapping and field description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

GLY 5865 Statistical Models in Geology (3) AS GLY
PR: STA 2023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.
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**Intended to attain basic proficiency.**

**Required, and, if dropped, then dropped simultaneously. S/U only.**

**Departmental approval required.**

**Departmental approval required. S/U only.**

**Available to majors and non-majors. Study of an author, movement or theme.**
mix, product differentiation, corporate travel market; and the implications.
Emphasis on discussion of assigned readings and on research and writing of a major paper.

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

HLP 4722 Health and Physical Education for the Child (2) ED EDE
The course helps elementary education majors understand the health, and developmental needs of K-6 children and to learn the role of the classroom teacher in providing health services, healthy environments, and health & physical ed. instruction.

HLP 4941 Wellness Internship (12) ED EDP
Open to Wellness Leadership Physical Education Majors only. S/U only. Supervised performance in adult fitness and/or wellness programs. Full semester on practicum.

HSA 4011 Introduction to Public Health (3) PH CFH
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 CFH
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 view of antecedent behaviors.

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

HSC 2933 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 living behavior 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; to create and maintain a healthy learning environment; and to sequence appropriate health instruction for Pre-K through 3rd grade students.

HSC 4554 Survey of Human Diseases (3) PH CFH
PR: Fund. of Biology with Lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.

HSC 4933 Special Topics in Public Health (1-6) PH PHC
Content will be governed by student demand and instructor interest.

HUM 1020 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 2211 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 2243 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 2930 Selected Topics (1-4) AS HUM
An introductory course dealing with a recurrent theme in the arts of focusing on a particular artistic center (a nation or city at a particular time).

HUM 3231 The Renaissance (3) AS HUM
An examination of the arts of the Renaissance, focusing on primary texts and images. Themes include humanism, the revival
of antiquity, the concept of the individual, the Reformation and Counter-Reformation, and the impact of the New World on the university. Topics will vary, course may be repeated for credit with change of content.

HUM 4402 Humanities in Asia (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Examples from the arts and letters of India and the relationship of these arts to Hindu and Buddhist philosophy-religions.

HUM 4404 Humanities in China (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.

HUM 4406 Humanities in Japan (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Examples from the arts and letters of Japan; their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.

HUM 4433 Ancient Greek Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.

HUM 4435 Early Medieval Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. A study of the culture of Europe and the Mediterranean world from the 4th to the 11th centuries through the readings of early Christian, Roman historians, poets, and theologians, as well as the study of illuminated manuscripts, mosaics, paintings and architecture.

HUM 4437 Italian Renaissance Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. A study of the painting, literature, music, sculpture and architecture of early modern Italy (1300-1600), emphasizing humanism, the revival of antiquity, the tension between sacred and secular, and artists such as Michelangelo, Raphael.

HUM 4438 Northern Renaissance Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. A study of the Northern Renaissance, 1480-1580, as exemplified in Germany, France, the Netherlands, England, and Spain. The course includes painting, architecture, literature and music, with special study of Durer, Van Eyck, El Greco, and Bosch.

HUM 4440 Arts and Letters in the 17th and 18th Centuries (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. A study of the visual arts, literature and music from the mysticism and ornament of the Baroque to the rationalism and classicism of the Enlightenment, including such artists, authors and composers as Rembrandt, Gentileschi, Voltaire, Bach, and Mozart.

HUM 4442 Arts and Letters of the Romantic Period (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Continental masterworks of fiction, painting, and music in the context of European cultural history from the French Revolution to the Revolutions of 1848.

HUM 4444 Nineteenth Century European Arts and Letters (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. A study of continental literary, musical, and artistic masterworks from the Revolutions of 1848 until the outbreak of World War I.

HUM 4445 Twentieth Century Arts and Letters I (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.

HUM 4446 Twentieth Century Arts and Letters II (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Study of selected works of art, tracing the course of American exoticism and the increasing variety and originality of the arts and the sciences in American ways of life and work, 1790-1890.

HUM 4452 Nineteenth Century American Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Study of selected works of art, tracing the course of American exoticism in civilization and the interactions between the arts and the sciences in American ways of life and work, 1790-1890.

HUM 4455 Twentieth Century American Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Study of selected works of art, tracing the course of American exoticism in civilization and the interactions between the arts and the sciences in American ways of life and work, 1790-1890.
IDH 4200 Geographical Perspectives Honors (3) HC HON
PR: IDH 2010 or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on the Pre-Columbian and Colonial periods. The course will focus on a particular historical, geographical, or thematic topic within those periods.

HUM 4164 Modern Latin American Culture (4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on the period since the time of independence. The course will focus on a particular historical, geographical, or thematic topic within that period.

HUM 4905 Directed Study (1-4) AS HUM
PR: CI. Specialized individual study determined by the student’s needs and interests.

HUM 4930 Selected Topics in Humanities (1-4) AS HUM
PR: Junior standing and HUM 2211 or HUM 2243, or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary.

HUM 4931 Seminar in Humanities 6A (4) AS HUM
PR: HUM 3331 or CI. Seminar focuses on the writing of a substantial research paper in the humanities. Topics vary.

HUM 4935 Major Issues in the Humanities MW (3) AS HUM
The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and papers on different media that have recently been written on the topic will be discussed. Available to majors and non-majors.

HUM 4940 Internship in Humanities (1-2) AS HUM
A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community. Restricted to Humanities majors.

HUM 4444 Clinical Nutrition (3) NU NUR
PR: HUM 2201 or equivalent. Focuses on the role nutrition has in causing and preventing disease processes.

IDH 2009 Discovery: People, Processes and Problems (3) HC HON
PR: Admission to Honors College. An appreciation of the research process in multiple disciplines culminating in the production of a collaboratively developed research proposal.

IDH 2010 Acquisition of Knowledge (3) HC HON
PR: Admission to Honors College. An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosophical questions behind these operations.

IDH 2930 Selected Topics (1-4) HC HON
PR: IDH 2010 or CI. This course is designed to emphasize a selected problem or issue that is meaningful and challenging to University Honors students and special populations. A variety of instructional approaches will be used. Topics will vary each semester. Repeatable for a total of 8 credits.

IDH 3100 Arts/Humanities Honors (1-3) HC HON
PR: IDH 2010. An introduction to western arts and letters from the perspectives of three periods (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods.

IDH 3150 Natural Sciences Honors (3) HC HON
PR: IDH 2010. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions.

IDH 3400 Social and Behavioral Sciences Honors (3) HC HON

IDH 3600 Seminar in Applied Ethics (3) HC HON
PR: IDH 2010. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, BioEthics, Medical Ethics, Personal Ethics, and Environmental Ethics.

IDH 4000 Honors Program Seminar: Major Works/Majors Issues (4) HC HON
PR: IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area.

IDH 4930 Selected Topics (1-4) HC HON
PR: IDH 2010 or CI. This course is designed to emphasize a selected problem or issue that is meaningful and challenging to University Honors students and special populations. A variety of instructional approaches will be used. Topics will vary each semester. Repeatable for a total of 8 credits.

IDH 4950 Honors Program Project (3) HC HON
Enrollment is limited to St. Petersburg Honors students who have completed at least one Honors Seminar. Senior Honors Program project consisting of an original creative work in literary, visual or performing arts, or in a community-oriented endeavor of substance and originality.

IDH 4970 Honors Thesis (3) HC HON
PR: Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor.

IDS 2664 Social Science Perspectives I SS (3) AS IAS
Provides an overview of the evolution and global expansion of Western Civilization. Examines global problems of economic political, and social relations among nations, states, food supply and hunger, and environmental change.

IDS 2665 Social Science Perspectives II SS (3) AS IAS
Approaches the study of human behavior and society using the various subfields of social science. The course addresses issues of social stratification, economics, education, religion and social status. The course is not restricted to any major, has no lab section, and is not cross-listed.

IDS 2666 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 interpreted and understood in the present, rather than a comprehensive survey of a limited time or place.

IDS 2667 Historical Perspectives II HP (3) AS IAS
Approaches the study of human history through a series of specific exercises that focus on what historians do: produce histories. The primary focus of the course is to understand the variety of ways that the past can be interpreted in history, 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 HP (2-5) 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 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
PR: DPR. 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 issues and ideas 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 the underlying values and paradigms that form our culture(s).

IDS 3663 Critical Issues Affecting the Arts MW (3) VP FAI
PR: Junior standing or CI. A discussion-based examination of cultural trends, educational policies, government regulations, 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, continuity, 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/week) 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 Community Research (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community internship 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 4949 Cooperative Education, Alternating (0-3) US COE
PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Full-time (40 hrs/week) 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.

IDS 4955 International Community Research (1-2) 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 credits.

INP 3701 Applied Psychology SS (3) AS PSY
PR: Junior standing. An interdisciplinary course examining psychological principles and the functions of psychologist in education, government, industry, and clinical practice.

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, supervision, 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 3018 World Ideologies MW (3) AS INT
A course which will introduce students to 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, economic success or failure, and constructive and destructive modes of self and social identification.

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 and trends 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 3364 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 3362 American Foreign 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 3362 International Human Rights MW (3) AS INT
This course explores the evolution of international rights from the Greeks to the present. It examines human rights issues in major regions of the world.

INR 3366 Intelligence and U.S. Foreign Policy (3) AS INT
An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

INR 3355 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 politics of the international economic system, focusing on student research on 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 Organizations 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 4900 Directed Readings (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 on international political science, anthropology, geography, sociology, and economics that impacts the study of the nation-state system and power. Open to majors and non-majors.

INR 5066 Issues in International Relations (3) AS POL
Sr./GS. Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.

ISC 1084 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.

ISM 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 3011 Information Systems 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 CP; ISM 3232, with a grade of "C" or better (not C-). Study of the techniques and procedures used in assessing information requirements, analyzing information flows and processing activities, and designing computer-based business systems.

ISM 3232 Business Application Development  
(3) BA QMB
PR: ISM 3011 with a grade of "C" or better (not C-). Presentation of business application development using a modern programming language. Topics include data structures, indexing, file processing, and user interfaces. Good program design techniques are emphasized. Business applications are developed.

ISM 3431 Management Science  
Production/Operations Management  
(3) BA QMB
PR: MAC 2233 or MAC 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 3232, ISM 3113, ISM 4212, with grades 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, multitasking, & event-driven computing. This course introduces concepts 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.

ISM 4212 Database Design and Administration  
(3) BA QMB
PR: ISM 3113, ISM 3232, with grades of "C" or better (not C-). Principles of database design/management for mainframe, micro, and client/server environments; including data modeling, physical vs. logical representation and back-up and recovery management.

ISM 4213 Advanced Database Administration  
(3) BA QMB
PR: ISM 3113, 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 3113 with a grade of "C" or better (not C-). Fundamentals of data communication, including network architectures, communication protocols, transmission standards and media access control methods.

ISM 4230 Information System Interface Design  
(3) BA QMB
PR: ISM 3232 with a grade of "C" or better (not C-). The fundamental concepts of human perception and cognition are studied in order to develop effective human-computer interfaces. Various types of interfaces are examined using a number of paradigms: human-computer interfaces via state-of-the-art development languages and systems.

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. The designs will be implemented by the use of the C++ or other OO programming languages.

ISM 4240 Distributed Operating Systems  
(3) BA QMB
PR: ISM 3232 with a grade of "C" or better (not C-). Introduction to distributed operating systems. Study of 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 3113, ISM 4212, with grades 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 3113, ISM 4212, ISM 4220, with grades of "C" or better (not C-). Current issues in information systems management focusing on organizational policies, procedures and standards for managing distributed computing resources.

ISM 4382 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: QB 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 other 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. This course is designed to familiarize students with the opportunities and challenges associated with electronic commerce, to explore the underlying technologies used in implementing electronic commerce systems, and to develop the practical skills needed to design and develop effective Web pages.

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
CO: ISS 1103. 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 1102 Self and Society SS (3) AS ISS
CO: ISS 1103. 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
This 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 our understanding of the self affect our perception of the environment; and how does our understanding of the self shape our perception of the 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 the perspective of the social sciences.

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, politics, family, etc.

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.

ITW 4905 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 1120 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 comprehension, speaking, and reading.

ITA 1120L Beginning Italian Laboratory (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 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, 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 lab designed to offer additional practice using various instructional technologies and media.

ITA 2200 Intermediate Italian I (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.

ITA 2240 Italian Conversation I (4) AS WLE
To develop fluency and correctness in spoken Italian. Intensive study for conversational skill based particularly upon the current Italian idiom. Syntax is intensified and the vocabulary and idiomatic expressions expanded.

ITA 2241 Italian Conversation II (4) AS WLE
To assist students who have already made a start in speaking Italian, who have not had the advantages of travel or who have non-Italian speaking parents, to improve their skill in speaking Italian. Current events; literary discussions; free conversation; prepared speeches. Differences of media, syntactical signal.

ITA 3421 Composition (3) AS WLE
A fundamental composition course for students who have completed ITA 2200.

ITA 3470 Overseas Study (1-6) AS WLE
Prior approval and early registration required. An intensive study-travel project in Italy.

ITW 4100 Survey of Italian Literature I (4) AS WLE
A survey of Italian literature from the earliest monuments through the classicism of the 18th century.

ITW 4101 Survey of Italian Literature II (4) AS WLE
A survey of Italian literature beginning with the Classicism of the 18th century and continuing to present.

ITW 4905 Directed Study (1-3) AS WLE
Departmental approval required. Selected topics in Italian literature.

JOU 2100 Beginning Reporting (3) AS COM
PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and newswriting techniques for various media. Typing ability is required.

JOU 3101 Advanced Reporting (3) AS COM
PR: JOU 2100 or RTV 3301 (RTV majors only), JOU 4200 (may be taken concurrently), PHI 1103 and POS 2041. Reporting and writing the more complex and specialized story. Techniques of investigatory and analytical reporting, including ethical and legal considerations.

JOU 3306 Critical Writing: Editorials, Reviews, Columns (3) AS COM
PR: JOU 3101 and JOU 4200. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing. Evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing reviews and personal columns.

JOU 3308 Magazine Article and Feature Writing (3) AS COM
PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper supplements. Experiences in developing article ideas and analysis of magazine articles.

JOU 3940 Reporting Practicum (1) AS COM
PR: JOU 3101 and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

JOU 4181 Public Affairs Reporting (3) AS COM
PR: JOU 3101 or RTV 3301 (RTV majors only), POS 2041 and POS 2112 or POS 3142. Covering city council meetings, courts, schools, courts, society and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

JOU 4200 News Editing I (3) AS COM

JOU 4206 Newspaper and News Publication Design (3) AS COM
PR: JOU 4200 or CI. Theoretical and practical applications of newspaper and news publication design, including typography, graphics, graphics software and electronic picture editing. Exercises in design for newspapers and news publications in black print and electronic format.

JOU 4212 Magazine Design and Production (3) AS COM
PR: JOU 4200. Theoretical and practical application of design principles for magazines. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of magazine covers. Design elements specific to magazine and production preparation.

JOU 4941 Editing Practicum (1) AS COM
PR: Senior standing, JOU 4200 and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

JOU 4944 Magazine Practicum (1) AS COM
PR: Senior standing and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

JOU 5105 Newswriting and Editing (3) AS COM
PR: GS in Mass Communications or CI. Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.

JOU 5305 Explorations in Newswriting (3) AS COM
PR: CC. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on-going beyond traditional practices of reporting and writing news stories.

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

JPN 1120L Modern Japanese I Laboratory (1) AS WLE
CR: JPN 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.

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

JPN 1121L Modern Japanese II Laboratory (1) AS WLE
CR: JPN 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 instructional technologies and media.

JPN 2200 Modern Japanese III (3) AS WLE
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.

JPN 2201 Modern Japanese IV (3) AS WLE
**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.

**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 2734 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 life, and labor movement, the vascular state, the 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 times to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neocolonial relationships.

**LAH 3480 History of Cuba (4) AS HTY**
Cuban history from slavery through the pre-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 - televised course.)

**LAT 2200 Intermediate Latin (4) AS WLE**
This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.

**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 2200 or equivalent. An introductory course in Latin grammar with appropriate readings.

**LAT 2201 Intermediate Latin II (4) AS WLE**
Pr: LAT 1121 or equivalent. Readings in Latin at an intermediate level.

**LIN 2000 Language and a Movie AF (2-3) AS WLE**
Pr: Freshman and Sophomore Standing only. 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**
Introduces to students to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.

**LIN 3670 English Grammar and Usage (3) AS ENG**
An introduction to the basic principles of the 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.
<table>
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<th>Course Code</th>
<th>Course Title</th>
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<th>Department</th>
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<td>LIS 5268</td>
<td>Microcomputer Applications Library and Information Centers</td>
<td>3</td>
<td>LIS</td>
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<tr>
<td>LIS 5315</td>
<td>Instructional Graphics</td>
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<td>LIS</td>
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<td>LIN 4930</td>
<td>Selected Topics</td>
<td>(1-3)</td>
<td>AS WLE</td>
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<td>LIN 4903</td>
<td>Directed Reading</td>
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<td>LIN 4930</td>
<td>Selected Topics</td>
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<td>Applied Linguistics</td>
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<td>LIS 2001</td>
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<td>LIS</td>
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<td>LIS 3301</td>
<td>World Wide Web Page Design and Management</td>
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<td>LIS 4930</td>
<td>Selected Topics in Information Studies</td>
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<td>LIS 5020</td>
<td>Foundations of Library and Information Science</td>
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<td>LIN 4471</td>
<td>Traditional English Grammar</td>
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<td>AS ENG</td>
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<tr>
<td>LIN 4680</td>
<td>Structure of American English</td>
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<td>AS ENG</td>
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<td>LIN 4710</td>
<td>Language and Communication: Acquisition and Development</td>
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<td>AS WLE</td>
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<td>LIN 4903</td>
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<td>(1-3)</td>
<td>AS WLE</td>
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<td>Applied Linguistics</td>
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<td>AS WLE</td>
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<td>LIS 2000</td>
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<td>AS ENG</td>
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<td>Literature of the Western World Since the Renaissance</td>
<td>6A (3)</td>
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<tr>
<td>LIT 3103</td>
<td>Survey of Poetry</td>
<td>(3)</td>
<td>AS ENG</td>
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<tr>
<td>LIT 3093</td>
<td>Contemporary Literature</td>
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<td>LIT 3101</td>
<td>Literature of the Western World Through the Renaissance</td>
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<td>LIT 3103</td>
<td>Great Literature of the World</td>
<td>6A MW LW</td>
<td>(3)</td>
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<tr>
<td>LIT 3155</td>
<td>Modern Literature</td>
<td>6A MW LW</td>
<td>(3)</td>
</tr>
<tr>
<td>LIT 3301</td>
<td>Cultural Studies and the Popular Arts</td>
<td>6A MW LW</td>
<td>(3)</td>
</tr>
</tbody>
</table>
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 literary classics. 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 6A MW 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 Existential 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 classical times through the present. Focuses on values/ethics, race/ethnicity and gender; thinking and writing skills. Will not be counted toward the English major.

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, sexuality, madness, race and generations. Writing intensive. Will not be counted toward the English major.

LIT 4804 Literature in 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 4930 Selected Topics in English Studies (3) AS ENG
The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be taken twice for credit with different topics

MAC 5405 Applied Complex Analysis (3) AS MTH
PR: MAA 5306 Real Analysis II (3) AS MTH
Series, contour integrals, residue theory. Conformal mappings. Mathematical modeling of real life 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 490 or better SAT Math score, or C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score. CP: MAC 1140. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates.

MAC 1147 Precalculus Algebra and Trigonometry 6A QM (4) 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 CPT score. No credit for students with credit for either MAC 1140 or MAC 1141. This is an accelerated combination of MAC 1140 and MAC 1141; this course is best for students who have already seen some trigonometry. See the descriptions of MAC 1140 and MAC 1141.

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 C (2.0) or better in MAC 1141, or 590 or better SAT Math score, 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 2231, MAC 2232, MAC 2233, MAC 2234, or MAC 2231. 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 1144, 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 math majors or students with credit in MAC 2233, MAC 2281, or MAC 2311. Differentiation and integration of algebraic, trigonometric, 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 2312. Techniques of integration, differential equations, functions of several variables, vectors, vector functions, and partial derivatives.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Department/Program</th>
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<tbody>
<tr>
<td>MAE 4551</td>
<td>Reading the Language of Mathematics</td>
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<td>MAE 4525</td>
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<td>MAD 5305</td>
<td>Graph Theory</td>
<td>(3) AS MTH</td>
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<tr>
<td>MAN 4402</td>
<td>Employment Laws</td>
<td>(3) BA MAN</td>
<td>BA MAN</td>
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<tr>
<td>MAN 4280</td>
<td>Organizational Development and Change</td>
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<td>MAD 4504</td>
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<td>MAD 5040</td>
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<tr>
<td>MAE 4653</td>
<td>Technology for Teaching Secondary School Mathematics II</td>
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<td>MAN 4282</td>
<td>Organizational Assessment (3) BA MAN</td>
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<td>MAE 4650</td>
<td>Internship: Mathematics Education (1-12) ED EDO</td>
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<td>Discrete Mathematics 6A (3) AS MTH</td>
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</tbody>
</table>

Note: The above table is a simplified representation of the course descriptions. For a complete description, please refer to the original source.
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assesses familiarity with industrial relations system.

MAN 4504 Operations Management: A Systems Approach (3) 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 (3) 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, manufacturing, production activity. Relationship to organizational effectiveness.

MAN 4500 International Management (3) 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 4502 Entrepreneurship and Small Business Management (3) 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 student's 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 2305 Ordinary Differential Equations I (3) AS MTH
PR: MAP 2302 or MAC 2421, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

MAP 517 Ordinary Differential Equations II (3) AS MTH
PR: MAP 5316 and MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixon Theory, Lyapunov functions, eigenfunction expansions.

MAP 5345 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
PR: MAP 2302 or CI. Sturm-Liouville theory, Fourier series, Green’s functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

MAR 2931 Selected Topics in Marketing (1-4) BA MKT
Not available for credit to upper-level students who have been admitted to the College of Business. Topics to be selected by department chairman.

MAR 3023 Basic Marketing (3) BA MKT
PR: Junior standing. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of the marketing on other functional areas of business as well as society.

MAR 3400 Professional Selling (3) BA MKT
PR: MAR 3900 or CI. A study of the roles of the professional selling process, and the role of sales in today’s marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

MAR 3613 Marketing Research (3) BA MKT
PR: QMB 2100, MAR 3023. A study of research methods and techniques applied to problem solving. Emphasis 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 institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

MAR 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 system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

MAR 4231 Retailing Management (3) 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.

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 4453 Business to Business Marketing (3) 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 are emphasized.

MAR 4824 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 major functional areas on specific problems.

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 student and instructor.

MAR 4905 Independent Study (1-3) BA MKT
PR: CI. S/U only. Specialized independent study 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 (3) DEA
PR: Acceptance in USF-Hillsborough County Mathematics and Science Program. Computational and constructive aspects of number theory. Topics include: properties of integers, Diophantine Equations, congruences, 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, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

MAS 4214 Elementary Number Theory (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 topics.

MAS 4301 Elementary Abstract Algebra 6A (3) AS MTH

MAS 5107 Advanced Linear Algebra (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, principal ideal domains and unique factorization.

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. Finite generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

MAT 2930 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 2936 Technology Seminar 6A (1) AS MTH
S/U only. A two hour/week technology seminar to acquaint students majoring in mathematics, physics, and other sciences with the computer tools necessary in scientific communication and document preparation.

MAT 4906 Independent Study 6A (1-4) AS MTH
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

MAT 4970 Mathematics Senior Thesis 6A (3) AS MTH
PR: Admission to Mathematics Honors Program and CC. S/U only. Course restricted to mathematics majors.

MAT 5932 Selected Topics - (1-4) AS MTH
PR: CI. Each course covers a single topic outside the usual curriculum.

MCF 5020C General Microbiology (4) AS BIO
PR: BSC2010, BSC2010L, BSC211, BSC211L, and CHM2210. Genetics is recommended. Introduction to the biology of microorganisms: structure, physiology, and ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec-lab.

MCF 4115 Determinative Bacteriology (5) AS BIO
PR: MAC 2209, CHM 2210. Microorganism, higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3714 and CHM 2211. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, industry and the environment.

MCF 4400 Microbial Physiology and Genetics (4) AS BIO
PR: MCB 3020C and CP: BCH 3023. A study of the physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, reproduction, and pathogenicity of microorganisms. The course emphasizes the interdependence of physiological and genetic approaches to microbiology. Lec.

MCF 4404L Microbial Physiology and Genetics Laboratory (1) AS BIO
CR: MCB 4404C. Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria.

MCF 4503 Virology (3) AS BIO
PR: MCB 3020C. The biology of viruses associated with plants, animals, and bacteria. Thiria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.

MCF 4915 Microbiology Undergraduate Research (1-4) AS BIO
PR: CI. For S. Microbiology majors only. S/U only. Individual investigation with faculty supervision.

MCF 4934 Seminar in Microbiology (1) AS BIO
PR: Senior or advanced junior standing. S/U only. Biology majors may take for elective credit.

MCF 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.

MCF 5655 Applied and Environmental Biology (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 (4) 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.

MGF 4106 Finite Mathematics 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 CPT score. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.

MGF 4107 Mathematics for Liberal Arts 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 CPT score. Terminal course intended to present topics which demonstrate the beauty and utility of mathematics to the general student population. Among the topics which might be included are: Financial Mathematics, Linear and Exponential Growth, Numbers and Number Systems, Elementary Number Theory, Voting Techniques, Graph Theory, and the History of Mathematics.

MGF 4116 Mathematical Experience 6A (3) AS MTH
PR: Two years of high school algebra. Introduction to some important and interesting basic ideas in mathematics with an emphasis on a mathematical way of thinking. Concepts such as definitions, axioms and proofs are explained. Topics from number theory, combinatorics, algebra and geometry are used. Some topics are presented in their historical context and their impact on the development of mathematics is discussed.

MGF 4131 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 CPT 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 2313 or MAC 2312. 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
MHS 5905 Directed Studies (1-4) ED EDG
PR: MAC 2313. Traces the development of mathematical ideas in Western culture.

MHF 5306 Mathematical Logic and Foundations I (3) AS MTH
PR: MAS 4301 or CI. Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and recursion theory and decidability.

MHS 4425 Field Experience in Behavioral Healthcare (3) FM FMH
PR: MAC 2311, HHS 4002, MHS 4408. This experiential class provides students with an understanding of the significant issues and trends in behavioral healthcare 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-minors in behavioral healthcare.

MHS 4020 Behavioral Health Systems Delivery (3) FM FMH
PR: MHS 4425. 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-minors in behavioral healthcare.

MHS 4052 Human Relations Skills in Counseling MW (4) ED EDG
Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and experiential training.

MLS 4860 Clinical Uroanalysis 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, pleural, peritoneal, and joint fluids.

MHS 4862 Clinical Hematology (6) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital.
A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum and disease states.

MHS 4863 Clinical Microbiology (6) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital.
A hospital clinical course emphasizing pathogens responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.

MHS 4865 Clinical Immunohematology (6) AS IAS
PR: Senior standing and acceptance into an approved affiliated hospital.
A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated diseases, HLA testing, and preparation of blood and blood components for transfusion therapy.

MMC 4123 Media Script Writing (3) AS COM

MMC 4200 History and Principles of Communications Law (3) AS COM
PR: MMC 2100 and MMC 3602. Historical and constitutional 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 4900 Directed Reading in Mass Communications (1-3) AS COM
PR: Junior standing and CI. Reading and directed study in special topics.
MTG 5216 Topology I (3) AS MTH  

MTG 5317 Topology II (3) AS MTH  
PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory.

MUE 3201 Composition (3) VP MUS  
PR: Necessary competency at junior level determined by faculty jury. DPR. Required of composition majors.

MUE 3440 Electronic Music-Real-Time Performance I (3) VP MUS  
PR: MUE 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUE 3444 Electronic Music-Real-Time Performance II (3) VP MUS  
PR: MUF 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 2221 Composition (3) VP MUS  
PR: MUT 1112 and DPR. Private instruction in original composition. Required of composition majors.

MUC 2301 Introduction To Electronic Music (3) VP MUS  
History and repertoire of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music, composition and electronic music.

MUC 3231 Composition (3) VP MUS  
PR: CI. Required of all composition majors. Minimum six hours.

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: CI. Required of all composition majors. Minimum six 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 5625 Jazz Composition (3) VP MUS  
PR: MUT 3354 and/or DPR. Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors, minimum six hours.

MUE 2090 Theoretical Bases Of Music Education (3) VP MUS  
PR: CI. Required of all composition majors. Private instruction in original composition.

MUE 2091 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 3402 Wind Technniques 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 ensemble techniques.

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. Develops MusEd professional organizations (MENC, CMENC, ISME, etc.). Students join CMENC and attend the FMEA conference. Add’l topics: classroom management, school safety, professional ethics, 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 4331 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
CR: MUE 4940. DPR. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

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 unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.

MUH 3051 Folk And Traditional Music Of World Cultures FA AF (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 an elective with departmental approval.

MUH 2632 Music In The United States FA (3) VP MUS
Designed for majors and non-majors, this course will use live performances, videotapes, and recordings to illustrate music as practiced in America from Colonial to present times. Included in the course will be the study of the contributions of various ethnic/minority groups, and discussions of the relevant social issues connected with these contributions.

MUH 3016 Survey Of Jazz FA (3) VP MUS
For non-music majors. Not repeatable. A study of the evolution of America’s “classical” music: Jazz. In addition to presenting an overview of the most prominent artists and literature, the course will focus on the cultural dynamics involved in the development of jazz from 1890 to the present.

MUH 3300 Music History/Medieval And Renaissance (2) VP MUS
PR: DPR. Required of music majors; a study of the historical development of musical styles of the Medieval and Renaissance periods and of the music of those periods. MUH 3301 Music History/Baroque And Classic MW (3) VP MUS
PR: MUL 2111. DPR. Required of music majors; open to non-majors with DPR. A study of the historical development of musical styles of the Baroque and Classic periods and of the music of those periods.

MUH 3302 Music History/Romantic And 20th Century MW (3) VP MUS
PR: MUL 2111. DPR. Required of music majors; open to non-majors with DPR. A study of the historical development of musical styles of the Romantic and Twentieth Century eras and of the music of those periods.

MUH 4058 Intercultural Music In The Twentieth Century MW (3) VP MUS
PR: MUE 2051 or MUL 2111, DPR. An in-depth investigation of composers born after c. 1880, from all parts of the world, who have attempted to integrate elements from two or more cultures into their compositions.

MUH 4801 History Of Jazz (3) VP MUS
PR: MUT 1112, DPR. An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.

MUL 2111 Introduction To Music Literature 6A HP FA (3) VP MUS
PR: MUT 1112, DPR. A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music major.

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-major 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 in Maching Band is required prior to enrollment.

MUN 1110 University Marching Band (1) 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 small combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3213 University Orchestra (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 large combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3343 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 small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3383 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 large combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3411 String Quartet (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, and piano.

MUN 3420 Saxophone 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 small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3421 Flute Choir (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, and piano.

MUN 3424 Woodwind Quintet (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, and piano.

MUN 3431 Brass Quintet (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, and piano.

MUN 3433 Drum 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 small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3435 Tuba Choir (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, and piano.

MUN 3437 Wind Quintet (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, and piano.

MUN 3439 Saxophone 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 small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1111</td>
<td>Music Theory I (3) VP MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 3444</td>
<td>Marimba Ensemble (1) VP MUS</td>
<td>PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, windwood, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3474</td>
<td>Collegium Musicum (1) VP MUS</td>
<td>PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, windwood, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUS 1112</td>
<td>Music Theory II (3) VP MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MUT 3453</td>
<td>Piano Ensemble (1) VP MUS</td>
<td>PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, windwood, brass, or percussion instruments.</td>
</tr>
<tr>
<td>MUN 3713</td>
<td>Jazz Ensemble (1) VP MUS</td>
<td>PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.</td>
</tr>
<tr>
<td>MUS 2641</td>
<td>Jazz Theory And Improvisation I (2) VP MUS</td>
<td>PR: MUT 1112 and/or DPR. A study of jazz improvisational techniques and related jazz theory.</td>
</tr>
<tr>
<td>MUS 3050</td>
<td>Opera Workshop (1) VP MUS</td>
<td>PR: DPR. Selection of topic and materials must be agreed upon and appropriate credit must be assigned prior to registration. A contract with all necessary signatures is required for registration.</td>
</tr>
<tr>
<td>MUS 2010</td>
<td>Recital Attendance (0) VP MUS</td>
<td>S/U only. This course is required for anyone who intends to become a student registers for applied music. The requirement for the successful completion of the course is attendance at ten (10) department-approved recitals/concerts throughout the semester.</td>
</tr>
<tr>
<td>MUS 3505</td>
<td>Directed Reading (1-3) VP MUS</td>
<td>PR: DPR. The content of the course will be governed by student demand and instructor interest.</td>
</tr>
<tr>
<td>MUS 3534</td>
<td>Jazz Composition And Arranging II (3) VP MUS</td>
<td>PR: MUT 3533 and 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.</td>
</tr>
<tr>
<td>MUS 3663</td>
<td>Advanced Jazz Improvisation II (2) VP MUS</td>
<td>PR: MUT 2642 or DPR. A study course to study 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.</td>
</tr>
<tr>
<td>MUS 3500</td>
<td>Directed Study (1-4) VP MUS</td>
<td>PR: DPR. The content of the course will be governed by student demand and instructor interest.</td>
</tr>
<tr>
<td>MUT 5051</td>
<td>Graduate Review Of Music Theory (2) VP MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 3432</td>
<td>Aural Theory I (1) VP MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 3453</td>
<td>Jazz Composition and Arranging I (3) VP MUS</td>
<td>PR: MUT 1112 and DPR. Course designed to begin arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.</td>
</tr>
</tbody>
</table>
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 2421 Trumpet 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.

MVB 2422 French Horn 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.

MVB 2423 Trombone 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.

MVB 2424 Euphonium 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.

MVB 2425 Tuba 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.

MVB 3331 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 3332 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 3333 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 3334 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 3335 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 3431 Trumpet 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.

MVB 3432 French Horn 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.

MVB 3433 Trombone 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.
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 2420 Applied Jazz Piano 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.

MVJ 2329 Applied Jazz Percussion 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.

MVJ 1410 Applied Jazz Piano 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.

MVJ 1313 Jazz Guitar 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 1414 Jazz Bass 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.

MVJ 2320 Applied Jazz Piano 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 2323 Jazz Guitar 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 2324 Jazz 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.

MVJ 2329 Applied 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 2420 Applied Jazz Piano 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.
MVJ 2423 Jazz Guitar 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.

MVJ 2424 Jazz 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.

MVJ 3330 Applied Jazz Piano Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-major majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 3333 Jazz Guitar Major Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-major majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 3334 Jazz Bass Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-major majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 3339 Applied Jazz Percussion Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-major majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 3430 Applied Jazz Piano 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 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 3439 Applied Jazz Percussion (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 4343 Jazz Guitar 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 4344 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 4349 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: MUT 2642 and DPR. Necessary competency at junior level determined by faculty jury examination. 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.

MVJ 5951 Applied Jazz Performance (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 1111 Keyboard Skills I (2) VP MUS
PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 1121 Keyboard Skills II (2) VP MUS
PR: MVK 1111 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 1211 Applied Piano (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.

MVK 1311 Piano Principal (2) VP MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-major majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVK 1411 Piano Major (3) VP MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-major majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVK 1811 Beginning Piano I (2) VP MUS
PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 1821 Beginning Piano II (2) VP MUS
PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 2111 Keyboard Skills III (2) VP MUS
PR: MVK 1121 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 2211 Keyboard Skills IV (2) VP MUS
PR: MVK 2111 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 2321 Piano 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 2421 Piano 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.

**MVP 3111 Music Majors, Level V (2) VP MUS**
- PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

**MVK 3311 Piano 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.

**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.

**MVK 4640 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 4641 Piano Pedagogy II (4) VP MUS**
- PR: MVK 4840, 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.

**MVS 2321 Violin Principal (2) 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 1211 Applied Percussion (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.

**MVP 1311 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 1411 Percussion 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.

**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 2421 Percussion 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.

**MVP 3331 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.

**MVP 4341 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 4441 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.

**MVP 5251 Applied Percussion, Secondary (2) VP MUS**
- PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVS 1211 Applied Violin (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 1212 Applied Viola (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 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 1413 Cello 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.

**MVS 1414 Double Bass 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.

**MVS 2321 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 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 2421 Violin Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. 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 2432 Viola Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. 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 2433 Cello Major (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. 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.

MVT 1411 Voice Major (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. 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.

MVT 2321 Voice Principal (2) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 2421 Violin Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. 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.

MVT 2432 Viola Major (3) VP MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. 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.

MVT 2433 Cello Major (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. 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.

MVT 3331 Violin Principal (2) 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.

MVT 3332 Viola Principal (2) 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.

MVT 3333 Violoncello Principal (2) 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.

MVT 3334 Double Bass Principal (2) 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.

MVT 3335 Tuba Major (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.

MVT 3336 French Horn Major (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.

MVT 3337 Wind Bassoon Major (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.

MVT 3338 Bassoon Major (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.

MVT 3339 Clarinet Major (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.

MVT 3340 Oboe Major (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.

MVT 3341 Violin Principal (2) 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.

MVT 3342 Viola Principal (2) 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.

MVT 3343 Violoncello Principal (2) 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.

MVT 3344 Double Bass Principal (2) 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.

MVT 4321 Clarinet Major (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.

MVT 4322 Viola Major (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.

MVT 4323 Cello Major (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.

MVT 4324 Double Bass Major (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.

MVT 4325 Bassoon Major (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.

MVT 4326 French Horn Major (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.

MVT 4327 Wind Bassoon Major (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.

MVT 4328 Bassoon Major (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.

MVT 4329 Clarinet Major (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.

MVT 4330 Oboe Major (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.

MVT 4331 Violin Principal (2) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4332 Viola Principal (2) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4333 Violoncello Principal (2) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4334 Double Bass Principal (2) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4421 Violin Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4422 Viola Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4423 Cello Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4424 Double Bass Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4431 Violin Principal (2) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4432 Viola Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4433 Cello Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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.

MVT 4434 Double Bass Major (3) VP MUS
PR: DPR. Necessary competency at Junior level determined by faculty jury examination. 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 1211 Applied Flute (1) VP MUS
PR: DPR. 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 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.

MVW 2321 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 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.

MVW 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.

MVW 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 2325 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 2326 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 2327 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 2328 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 3331 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 3332 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 3333 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 3334 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.
NUR 3066 Physical Examination and Assessment (2) NU NUR
Fundamentals of clinical nursing practice. Focus is on ethical responsibilities, accountability, communication and critical thinking. Required of all applied music majors.

MVW 3434 Bassoon 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.

MVW 3435 Saxophone 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.

MVW 3431 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 3444 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 3445 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.

NSC 1110 Introduction to Naval Science (3) US NVY
Emphasis on the mission, organization, regulations and components of the U.S. Navy and Marine Corps.

NSC 1110L Naval Science Laboratory (0) US NVY
A weekly two-hour laboratory covering professional and military aspects of naval operations. Laboratory required.

NSC 1140 Sea Power and Maritime Affairs (3) US NVY
This course deals with the importance of seapower in historical events, including emphasis on worldwide political-military confrontations following the cold war.

NSC 2121 Naval Ships Systems I (3) US NVY

NSC 2212C Navigation/Naval Operations I: Navigation (3) US NVY
Piloting and celestial navigation theory, principles, and procedures. Tides, currents, weather, use of navigation instruments and equipment, and practical laboratory required.

NSC 2221 Evolution of Naval Systems (3) US NVY
A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.

NSC 2351 Principles of Naval Management I (3) US NVY
Theory and principles of management, focusing on the officer as an organizational decision maker. Includes interpersonal skills, behavior factors, and group dynamics.

NSC 2931 Directed Study in Naval ROTC (1-3) US NVY
PR: Permission of Professor of Naval Science. Intensive individualized study in particular aspects of Naval Science that are not covered in regular course offerings. Enrollment is recommended for NROTC students who are anticipating attending the Naval Science Institute in Newport, RI, during sophomore/junior summer. Course content and title may vary from term to term.

NSC 3123 Naval Ships Systems II (3) US NVY
PR: NSC 2121. Capabilities and limitations of fire control systems and weapons, radar and underwater sound for target acquisition, threat analysis, tracking, weapons selection, delivery, and guidance. Various aspects of explosives, fusing and Naval ordnance.

NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations (3) US NVY
PR: NSC 2212C. International and inland rules of the road; relative motion-vector analysis; ship handling, employment, and tactics; afloat communications; and operations analysis. Laboratory required.

NSC 4224 Amphibious Warfare (3) US NVY
History of amphibious warfare emphasizing doctrine and techniques as well as an understanding of the interrelations of political, strategic, operational, tactical, and technical levels of war from the past.

NSC 4232 Principles of Naval Management II (Leadership and Ethics) (3) US NVY
PR: NSC 2231. Integration of professional competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability, communications and military law for the junior officer.

NUR 3606 Physical Examination and Assessment (2) NU NUR
PR: Admission to nursing major or CI. Focuses on the techniques of patient assessment and examination of infants, children, and adults. Emphasizes assessment phase of nursing process using critical thinking to enable the student to perform evaluations of health status throughout the lifespan.

NUR 3060L Clinical Experience in Health Assessment - RN (1) NUR
PR: Admission to nursing major or CI. CR: NUR 3066. Clinical experience on history taking, physical assessment skills basic to psychosocial assessment and physical examination of adults and children. Emphasizes diagnostic reasoning and identification of alteration in functional health patterns.

NUR 3076 Fundamentals of Communication and Psycho-social Nursing (2) NUR
PR: Admission to the nursing major or CI. Focus on basic communication, interviewing, and psychosocial assessment skills essential for professional nursing practice. Emphasis on developing nurse relationships with individuals across the lifespan within the context of the family.

NUR 3125 Pathophysiology for Nursing Practice (4) 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) NUR
PR: Admission to the nursing major or CI. Focus on the basic and clinical concepts of pharmacology in nursing practice. Examines pharmacotherapeutics; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications and nursing implications.

NUR 3215 Medical Surgical Nursing I (3) NUR
PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3076, NUR 3125, 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 alterations in Fluid and Electrolyte Balance, Hemotologic System, Cardiovascular System, Respiratory System, Gastrointestinal System, Renal System, Endocrine, Cancer, Multi-system Dysfunction.

NUR 3215L Medical Surgical Nursing Clinical I (4) NUR

NUR 3284C Gerontological Nursing (2) NUR
PR: NUR 3113, NUR 3026, NUR 3026L, NUR 3066. Nursing Majors. Focuses on theories of aging and human development; assessment of functional health patterns; and planning health promotion and disease prevention activities with older adults. Critical thinking is used to analyze the effects of changes in health status and impact of nursing intervention for: patients with alterations in the Cardiovascular System and musculoskeletal system.

NUR 3550 Mental/Mental Health Nursing (3) NUR
PR: NUR 3076, NUR 3086, NUR 3125, NUR 3026 and NUR 3026L. CR: NUR 3525L. Explores mind, body, and spirit alterations in functional health patterns experienced by patients with acute and chronic mental illness. Examines psychopathology, psychopharmacologic therapies and community resources and the role of the nurse in psychiatry.

NUR 3525L Psychiatric/Mental Health Nursing Clinical (3) NUR
PR: NUR 3076, NUR 3086, NUR 3125, NUR 3026 and NUR 3026L. CR: NUR 3525R. 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 psychopharmacologic therapies across the lifespan.

NUR 3805 Education Transitions for Registered Nurses (3) NUR
PR: Admission to the nursing major. Transition to professional nursing for the registered nurse, its theoretical perspective and empirical bases and essential skills for success in nursing education. Focus on developing a variety of learning strategies and approaches to academic achievement.

NUR 3826 Ethical Legal Aspects in Nursing and Health Care MW (3) NUR
PR: NUR 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 4091L Accelerated Fundamentals Laboratory (1) NUR
Experiences in the fundamental skills of clinical nursing practice. Provide unique experiences in the nursing process and developing nursing psychomotor skills.

NUR 4092L Accelerated Integrated Clinical I (5) NUR
NUR 4092L Accelerated Integrated Clinical I (5) NUR
Focus on critical thinking, effective communication and nursing interventions for individuals of all ages in the in-patient and community settings.

NUR 4093L Accelerated Integrated Clinical II (5) NUR
Focus on nursing interventions for the patient with physical and mental health problems. This is the clinical judgment to implement nursing interventions with the patient and family.

NUR 4165 Nursing Inquiry (3) 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 practice.

NUR 4194 An Interdisciplinary Perspective in HIV Disease 6A
MW LW (3) NUR
Provides an interdisciplinary perspective on HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; international perspectives; issues of race, gender, and ethnicity; values, ethics, and their influences on responses to HIV; and how the media has shaped the epidemic.

NUR 4216 Medical Surgical Nursing II (4) NUR
PR: NUR 3215, NUR 3215L, NUR 3145. CR: NUR 4216L. 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) NUR
PR: NUR 3215, NUR 3215L, NUR 3145. CR: NUR 4216L. 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 selected health problems related to alterations in multiple functional health patterns.

NUR 4257 Critical Care (2) NUR
PR: Nursing Majors or CI. Basic concepts of critical care nursing, focusing on selected health problems to analyze the affects of changes in health status.

NUR 4355 Child and Adolescent Health Nursing (3) NUR

NUR 4455 Women’s Health Nursing (2) NUR

NUR 4635L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women’s Health (7) NUR
PR: NUR 4216, NUR 4216L. CR: NUR 4635L, NUR 4636, NUR 4455. Provides clinical learning experiences in diverse 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 lifespan.

NUR 4636 Community/Public Health: Population-Focused Nursing (3) 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 for the RN (3) NUR
CR: NUR 4636 or CI. Provides clinical learning experiences in community-based sites in both urban and rural settings. Focus on nursing care designed to prevent and/or reduce risk of disease and injury, and promote health and wellness to diverse populations across the age spectrum.

NUR 4643 Nursing Interventions into the Acute Effects of Drug and Alcohol Abuse (2) NUR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4444</td>
<td>Nursing Interventions into the Rehabilitation of Clients who Abuse Substance  (2) NU NUR</td>
<td>Focuses on models of treatment and interventions for clients and families who are in the rehabilitation and relapse prevention phases of treatment for addictions. Emphasis will be placed on rehabilitation outcomes for designated populations with consideration for criminal socioeconomic, political and legal/ ethical factors.</td>
</tr>
<tr>
<td>NUR 4645</td>
<td>Substance Abuse Across the Lifespan 6A MW LW (3) NU NUR</td>
<td>Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.</td>
</tr>
<tr>
<td>NUR 4655</td>
<td>Culture In Nursing Practice (2) NU NUR</td>
<td>Focuses on the historical, legal, cultural, scientific, and professional foundations of occupational and environmental health nursing; the occupational health nurse role in the delivery of health services to workers and worker aggregates; business, social, economic, and legal forces influencing that role; standards and characteristics of practice; and settings for occupational health nursing practice.</td>
</tr>
<tr>
<td>NUR 4696</td>
<td>Occupational Health Nursing (2) NU NUR</td>
<td>Focuses on the historical, legal, cultural, scientific, and professional foundations of occupational and environmental health nursing; the occupational health nurse role in the delivery of health services to workers and worker aggregates; business, social, economic, and legal forces influencing that role; standards and characteristics of practice; and settings for occupational health nursing practice.</td>
</tr>
<tr>
<td>NUR 4755C</td>
<td>Rehabilitation Across the Life Span (2) NU NUR</td>
<td>This course provides students with the fundamental skills and knowledge to facilitate the teaching role of the nurse.</td>
</tr>
<tr>
<td>NUR 4905C</td>
<td>Independent Study (1-5) NU NUR</td>
<td>Principles of nursing leadership and management with an emphasis on decision-making, priority 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.</td>
</tr>
<tr>
<td>NUR 4905C</td>
<td>Leadership and Management in Professional Nursing Practice (3) NU NUR</td>
<td>This course provides the learner with an opportunity to gain knowledge and skills to facilitate the teaching role of the nurse.</td>
</tr>
<tr>
<td>NUR 4930</td>
<td>Registered Nurse First Assistant Course (3) NU NUR</td>
<td>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).</td>
</tr>
<tr>
<td>NUR 4935</td>
<td>Selected Topics In Nursing (1-8) NU NUR</td>
<td>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.</td>
</tr>
<tr>
<td>NUR 4940</td>
<td>Internship for the Registered Nurse First Assistant (4) NU NUR</td>
<td>This course provides 120 hours of clinical experiences in the roles and responsibilities and technical skills required of the registered nurse first assistant (RNFA).</td>
</tr>
<tr>
<td>NUR 4948L</td>
<td>Preceptorship (6) NU NUR</td>
<td>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.</td>
</tr>
<tr>
<td>OCE 2001</td>
<td>Introduction to Oceanography NS (3) MS MSC</td>
<td>Overview of physical, biological, chemical, geological, and physical oceanography. Also listed under Geology.</td>
</tr>
<tr>
<td>OCE 4930</td>
<td>Selected Topics in Marine Science (1-4) MS MSC</td>
<td>Selected topics in the marine sciences including marine biology, marine chemistry, marine geology and geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.</td>
</tr>
</tbody>
</table>

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: ORI 2000 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.

ORI 4120: Performance of Poetry (3) AS SPE
- PR: ORI 2000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

ORI 4310: Group Performance of Literature (3) AS SPE
- PR: ORI 2000 or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.

ORI 4931: Performance and Video (3) AS SPE

ORI 5930: Topics in Performance Genres (3) AS SPE
- Variable topics course.

PAD 3003: Introduction to Public Administration SS (3) AS PAD
- Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4144: Nonprofit Organizations and Public Policy 6A MW (3) AS PAD
- Focus on the role and importance of third sector (voluntary) organizations in American society; focus on public policy through service in a voluntary organization.

PAD 4204: Public Finance 6A MW (3) AS PAD
- Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 4419: Personnel & Supervision in Today’s Organizations (3) AS PAD
- Introduces students to concepts, 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
- Introduces students to the fundamental concepts, theories, principles and practices in public information management. Internet access is required.

PAD 4723: Selected Topics in Public Administration and Public Policy (3) AS PAD
- Selected issues and topics in Public Administration and Public Policy with course content 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
- Examination of the legal, political, and ethical environment in which public managers work.

PAD 5533: 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 and relationship with other branches of government.

PAD 5700: Research Methods in Public Administration (3) AS PAD
- This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.
PAD 5807 Urban and Local Government Administration (3) AS PAD
GS or Sr. Analysis of the role of the administrator at the municipal level, the division of functions, policy formulation, alternative governmental structures, effects on the administrative process.

PAD 5838 Comparative Public Administration (3) AS PAD
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 environments.

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
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 2111, CMH 2045, CMH 2045L, CMH 2046, CMH 2046L. A discussion of the concept and significance of the cell to biology; biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lec.

PCB 3023L Cell Biology Laboratory (1) AS BIO
CP: PCB 3023. Laboratory portion of Cell Biology. Metabolic processes within the cell.

PCB 3043 Principles of Ecology (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2111, CMH 2045, CMH 2045L, CMH 2046, CMH 2046L. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.

PCB 3043L Principles of Ecology Laboratory (1) AS BIO

PCB 3063 General Genetics (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2111, CMH 2045, CMH 2045L, CMH 2046, CMH 2046L. Introduction to genetics including the fundamental concepts of Mendelian, molecular, and population genetics. Lec.-dis.

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 3714 General Physiology (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2111 and CMH 2045, CMH 2046 and MAC 1105 or higher-level MAC course or STA 2023. An introduction to the basic principles and concepts of physiology, including organ systems and activities of body tissues and organs. Functional responses of plants to both internal and environmental signals are studied. Lecture only.

PCB 3714L General Physiology Laboratory (1) AS BIO
PR: PCB 3714. Laboratory portion of General Physiology.

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. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.

PCB 4723 Animal Physiology (3) AS BIO
PR: PCB 3023, PCB 3043, PCB 3063 or ZOO 3323 and CMH 2211. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lec.-Lab.

PCB 4723L Animal Physiology Laboratory (1) AS BIO
CR: PCB 4723. Laboratory portion of Animal Physiology.

PCB 5235 Principles of Immunology (3) AS BIO
PR: PCB 3023L, PCB 3032C, or MCB 3022C. CI. Health promotion or wellness program. Course will emphasize the biological principles involved in the vertebrate immune response. It will present the homeostatic, defensive, and detrimental aspects of the immune system in terms of basic cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist.

PCB 5256 Developmental Biology (5) AS BIO
PR: PCB 3023L. CI. Topics in modern developmental biology to be covered in lecture and through readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals.

PCB 5307 Limnology (3) AS BIO
PR: PCB 3043, CMH 2046, PHY 2053, CI. An introduction to the physical, chemical, and biological nature of fresh-water environments.

PCB 5307L Limnology Laboratory (1) AS BIO
PR: CI. CP: PCB 5307. Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.

PCB 5415 Behavioral Ecology (3) AS BIO
PR: PCB 3043 or PCB 4674, CI. An emphasis on the evolutionary mechanisms that influence an organisms behavioral responses to environmental events. The theoretical framework is presented and analyzed.

PCB 5525 Molecular Genetics (3) AS BIO
PR: PCB 3063, CI. Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.

PCB 5835 Neurophysiology (3) AS BIO
PR: CI. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.

PCB 5845C Principles of Neuroscience (4) AS BIO
PR: PCB 4723, CI. Study of the mammalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain. Techniques include brain imaging, dementia, and mechanisms of learning/memory.Brain research techniques are also discussed, as are basic neuropathological processes that result in abnormal brain function.

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

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

PEL 2122 Golf II (2) EDJ
S/U only. Continuation of PEL 1121. Emphasis on course play and refinement of strokes.

PEL 2342 Tennis II (2) EDJ
S/U only. Continuation of PEL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies.

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

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

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

PEM 2930 Selected Topics (1-2) EDJ
S/U only. DPR. Activities offered are selected to reflect student need and faculty interest.

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

PEN 2113 Lifeguard Training (2) EDJ
PR: PEN 2122 or equivalent. S/U only. Knowledge and skills necessary for saving the lives of others in the event of aquatic emergency. ARC certification offered.

PEP 1136 Skin & Scuba Diving (2) EDJ
PR: PEN 2172 or equivalent. S/U only. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety.

PEP 3940 Practicum in Health Promotion/Wellness (4) ED EDJ
PR: Completion of Semesters I and II and admission to the College of Education. S/U only. Practical experience as a professional in health promotion.

PEP 3951 Communication Skills For Wellness Leaders (3) ED EDJ
Wellness majors only. Designed to develop knowledge and skills in communication and counseling that is specific to wellness and health promotion.

PEQ 3170 Aquatic Exercise (2) ED EDJ
An instructor training course in aquatic exercise. Focuses on teaching aerobic, strength, flexibility, and weight control exercises performed in swimming pools. Open to non-majors.
PET 2622C Care and Prevention of Physical Injuries (3) ED EDP
PR: Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

PET 3012 Professional Development in Physical Education I (1) ED EDP
PR: CC. This is the first of a two course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

PET 3013 Professional Development in Physical Education II (1) ED EDP
PR: PET 3012. This is the second of a two-course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

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

PET 3080 Survey of Wellness Program (3) ED EDP
Wellness majors only. An analysis of various types of wellness programs in the public and private sector including community-based programs, commercial and health fitness enterprises, government-based programs, corporate-based programs, and hospital health centers.

PET 3252 Issues in Sport MW (3) ED EDP
PR: Junior, Senior standing. A study of organized sport as a pervasive part of contemporary society. By increasing understanding of some of the issues and controversies based in the structure of sport and society, individuals will be able to understand and improve sport experiences for themselves and others.

PET 3310 Kinesiology (3) ED EDP
A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psycho-motor performance. Open to non-majors.

PET 3351 Exercise Physiology I (3) ED EDP
A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors.

PET 3421 Curriculum and Instruction in Physical Education (3) EDEDP
Preparation of materials and planning instruction.

PET 3441 Instructional Design and Content: Middle School Physical Education (3) EDEDP
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 3670L Clinical Instruction in Athletic Training I (3) ED EDP
Athletic Training majors only. Observation and performance of athletic training tasks under the direct supervision of an NATABOC certified/state licensed athletic trainer. This course provides students with the opportunity to develop competence in a variety of introductory athletic training skills. Clinical experiences are obtained in the university’s sports medicine facilities and will be accompanied by a one-hour seminar each week.

PET 3671L Clinical Instruction in Athletic Training II (3) ED EDP
PR: PET 3670L. Athletic Training majors only. Continuation of clinical experience utilizing new skills under the direction of an NATABOC certified/state licensed athletic trainer. This course provides students with the opportunity to develop competence in a variety of introductory and mid-level athletic training skills. Clinical experiences are obtained in the university’s sports medicine facilities and/or approved affiliates and will be accompanied by a one-hour seminar each week.

PET 3931 Selected Topics (1-3) EDEP
Topics offered are selected to reflect student need and faculty interest.

PET 4141 Trends and Tasks- Elementary Physical Education (1) 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 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 patients, arthritics, elderly, and high performance athletes. Open to non-majors.

PET 4384 Health-Fitness Appraisal & Exercise Prescription (3) EDEDP
PR: PET 3351. Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Open to non-majors.

PET 4401 Class Management, Safety, Ethics, Law, and Organization and Administration of Physical Education (3) ED EDP
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 4404 Organization & Administration of Wellness Programs (3) ED EDP
Wellness majors only. Design and implementation of various types of wellness programs with emphasis on assessment and evaluation, management, staffing, participant adherence, program design, budgeting, legal liability, and marketing.

PET 4492 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 processes suitable for elementary age students. Majors only.

PET 4493 Instructional Design and Content: Physical Education Elementary II (3) ED EDP
Physical Education majors only. This course prepares students to select, 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 team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as observational progressions and the preparation of materials for instruction at the secondary school level.

PET 4625 Advanced Athletic Training (3) ED EDP
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) ED EDP
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 4832C Therapeutic Modalities (3) ED EDP
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. Topics may include the use of pharmacology, thermotherapy, cryotherapy, electrical stimulation, hydrotherapy, fluidotherapy, ultrasound, biofeedback and manual techniques which will be emphasized.

PET 4833C Therapeutic Rehabilitation (3) ED EDP
Athletic Training majors only. Theories and applications methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.

PET 4872L Clinical Practice in Athletic Training (3) ED EDP
Athletic Training majors only. Continuation of clinical experience utilizing new skills under the direction of an NATABOC certified/ state 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 acting as peer-supervisors for level I and II students.

PET 4873L Clinical Practice in Athletic Training II (3) ED EDP
Athletic Training majors only. Continuation of clinical experience utilizing new skills under the direction of an NATABOC certified/ state 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 acting as peer-supervisors for level I, II and III students.

PET 4905 Independent Study: Professional Physical Education (1-4) ED EDP
PR: DPR, SI only. Specialized independent study determined by the student’s needs and interests.

PET 4933 Seminar in Sports Medicine 6A LW (3) ED EDP
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 4935 Case Studies in Athletic Health Care (3) EDP
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 4939 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) 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 4995 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
Si/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 also 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 to the use of photographic techniques in the 1800s, and memorable icons. Open to majors and non-majors.

PGY 3410C Intermediate Photography (3) VP ART
PR: ART 2201C, ART 2203C, ART 3316C, ART 3410C, 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, visual and technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography. Repeatable up to 9 hours.

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 4802C 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 5425C Art Photography III (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 FH
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 major stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.

PHH 2000 Introduction to Philosophy 6A HP (3) AS PHI
An introduction to selected philosophical problems and traditions.

PHH 3062 History of Philosophy: Ancient and Medieval (3) AS PHI
A survey of Western philosophy from the pre-Socrates to the end of the Middle Ages.

PHH 3420 History of Philosophy: Modern (3) AS PHI
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

PHH 4440 Continental Philosophy (3) AS PHI
A study of developments in post-Kantian European philosophy.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>PHI 2630</td>
<td>Contemporary Moral Issues</td>
<td></td>
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<tr>
<td>PHI 3700</td>
<td>Philosophy of Religion</td>
<td></td>
</tr>
<tr>
<td>PHI 3640</td>
<td>Environmental Ethics</td>
<td></td>
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<tr>
<td>PHI 3633</td>
<td>Biomedical Ethics</td>
<td></td>
</tr>
<tr>
<td>PHI 2101</td>
<td>Introduction to Formal Logic</td>
<td></td>
</tr>
<tr>
<td>PHI 4320</td>
<td>Philosophy of Mind</td>
<td></td>
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<tr>
<td>PHI 4073</td>
<td>African Philosophy</td>
<td></td>
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<tr>
<td>PHI 4632</td>
<td>Feminist Ethics</td>
<td></td>
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<tr>
<td>PHI 4670</td>
<td>Contemporary Ethical Theory</td>
<td></td>
</tr>
</tbody>
</table>
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 (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 of methods 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 in administration, consultation, critical inquiry, education, and client/client management. Restricted to majors. Repeatable for 2 cr.

**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, research, theories of learning and teaching, 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 other health care 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, vessels, and 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 5173C Foundational Science III (2) 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, PHT 5184 Lab, and physical medicine principles with emphasis on biomechanics, kinesiology, 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**
Practicum for patient/client management of individuals with musculoskeletal related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

**PHT 5906 Directed Independent Study (1-10) ME PHT**
Directed independent study, content to be decided. Restricted to majors. Repeatable for credit.

**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 patient/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 2048 General Physics I 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 2049 General Physics I NS (3) AS PHY**
PR: MAC 2281 or MAC 2311. Must be taken concurrently with PHY 2053. 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 PHY 2053L. May not receive credit for both the PHY 2053L and PHY 2048L courses. First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) for physics majors and engineering students.

**PHY 2049L General Physics II Laboratory (1) AS PHY**
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Must be taken concurrently with PHY 2054L. 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 NS (3) AS PHY**
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 physical agents and therapeutic exercises. Restricted to majors.

**PHT 5277C Physical Therapy Science III (3) ME PHT**
Examination, evaluation, diagnosis, and intervention for musculoskeletal-related problems with secondary importance 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 3 cr.
PR: MAC 1140 and MAC 1114, or MAC 1147.

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 4744C Introduction to Electronics and Test Instrumentation (3) AS PHY
PR: General Physics or CI. 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 multimeters, etc.).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Approval</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 1120</td>
<td>Beginning Polish I (4) AS WLE</td>
<td>3</td>
<td>AS POL</td>
<td>CR: POL 1120L. This course features all four major skills: listening, reading, speaking, and writing. Classwork, grammar exercises, and vocabulary-building are central in this course. Knowledge of Russian can help. S/U available.</td>
</tr>
<tr>
<td>POS 1121</td>
<td>Beginning Polish II (4) AS WLE</td>
<td>4</td>
<td>AS POL</td>
<td>CR: POL 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.</td>
</tr>
<tr>
<td>POR 1120</td>
<td>Beginning Portuguese I (4) AS WLE</td>
<td>4</td>
<td>AS WLE</td>
<td>CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.</td>
</tr>
<tr>
<td>POR 1121</td>
<td>Beginning Portuguese II (4) AS WLE</td>
<td>4</td>
<td>AS WLE</td>
<td>CR: POR 1120L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.</td>
</tr>
<tr>
<td>POR 1120L</td>
<td>Beginning Portuguese I Laboratory (1) AS WLE</td>
<td>1</td>
<td>AS WLE</td>
<td>CR: POR 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.</td>
</tr>
<tr>
<td>POR 1121L</td>
<td>Beginning Portuguese II Laboratory (1) AS WLE</td>
<td>1</td>
<td>AS WLE</td>
<td>CR: POR 1120L. A laboratory designed to offer additional practice using various instructional technologies and media.</td>
</tr>
<tr>
<td>POR 2200</td>
<td>Intermediate Portuguese I (3) AS WLE</td>
<td>3</td>
<td>AS WLE</td>
<td>POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121.</td>
</tr>
<tr>
<td>POR 2201</td>
<td>Intermediate Portuguese II (3) AS WLE</td>
<td>3</td>
<td>AS WLE</td>
<td>For language students who intend to attain basic proficiency.</td>
</tr>
<tr>
<td>POL 1124</td>
<td>Women and Law I (3) AS WST</td>
<td>3</td>
<td>AS WST</td>
<td>PR: POR 2201L. 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 issues.</td>
</tr>
<tr>
<td>POS 2041</td>
<td>American National Government (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.</td>
</tr>
<tr>
<td>POS 2080</td>
<td>The American Political Tradition SS HP (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.</td>
</tr>
<tr>
<td>POS 2112</td>
<td>State and Local Government and Politics (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>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.</td>
</tr>
<tr>
<td>POS 3142</td>
<td>Introduction to Urban Politics and Government (3)</td>
<td>3</td>
<td>AS POL</td>
<td>Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.</td>
</tr>
<tr>
<td>POS 3173</td>
<td>Southern Politics (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Examinations in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.</td>
</tr>
<tr>
<td>POS 3182</td>
<td>Florida Politics and Government (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>A study of Florida political culture, presidential, senatorial, and gubernatorial elections, the legislative, executive, and judicial systems, and policy patterns.</td>
</tr>
<tr>
<td>POS 3283</td>
<td>Judicial Process and Politics (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.</td>
</tr>
<tr>
<td>POS 3453</td>
<td>Political Parties and Interest Groups (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.</td>
</tr>
<tr>
<td>POS 3691</td>
<td>Introduction to Law and Politics (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.</td>
</tr>
<tr>
<td>POS 3697</td>
<td>Environmental Law (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Examines some of the major issues involving environmental law. Statutory law and case analysis of pollution, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. It will also address questions pertaining to implementation, interpretation, enforcement, and development of environmental laws.</td>
</tr>
<tr>
<td>POS 3713</td>
<td>Empirical Political Analysis (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.</td>
</tr>
<tr>
<td>POS 3931</td>
<td>Selected Topics (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Selected topics in political science with course content based upon student demand and instructor’s interest.</td>
</tr>
<tr>
<td>POS 4204</td>
<td>Political Behavior, Public Opinion, and Elections (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.</td>
</tr>
<tr>
<td>POS 4413</td>
<td>The American Presidency 6A (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership: crisis management and decision making; White House staffing; limits on power.</td>
</tr>
<tr>
<td>POS 4424</td>
<td>The American Congress (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.</td>
</tr>
<tr>
<td>POS 4614</td>
<td>Constitutional Law I (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>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.</td>
</tr>
<tr>
<td>POS 4624</td>
<td>Constitutional Law II (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.</td>
</tr>
<tr>
<td>POS 4693</td>
<td>Women and Law I (3) AS WST</td>
<td>3</td>
<td>AS WST</td>
<td>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.</td>
</tr>
<tr>
<td>POS 4905</td>
<td>Independent Study (1-3) AS POL</td>
<td>1-3</td>
<td>AS POL</td>
<td>PR: 3.0 average in Political Science and CI. S/U only. Specialized study determined by the student’s needs and interests.</td>
</tr>
<tr>
<td>POS 4910</td>
<td>Individual Research (1-3) AS POL</td>
<td>1-3</td>
<td>AS POL</td>
<td>PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an individual research paper. Exercises using the computer are required.</td>
</tr>
<tr>
<td>POS 5094</td>
<td>Issues in American National and State Government (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Selected topics of study in American government.</td>
</tr>
<tr>
<td>POS 5155</td>
<td>Issues in Urban Government and Politics (3) AS POL</td>
<td>3</td>
<td>AS POL</td>
<td>Selected issues and topics in Urban Government and politics.</td>
</tr>
<tr>
<td>POS 5159</td>
<td>Urban Policy Analysis (3) AS PAD</td>
<td>3</td>
<td>AS PAD</td>
<td>PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.</td>
</tr>
</tbody>
</table>
Applicaton of policy framework for urban government & policies. 

PSY 4604 History and Systems of Psychology (3) AS PSY 

PSY 4205 Experimental Design and Analysis (3) AS PSY 

PSY 3213 Research Methods in Psychology (4) AS PSY 

PSY 3017 Psychological Science II 

POT 4109 Politics and Literature 6A LW (3) AS POL 

POT 4054 Modern Political Thought (3) AS POL 

POT 4064 Contemporary Political Thought (3) AS POL 

POT 4109 Politics and Literature 6A LW (3) AS POL 

POT 4204 American Political Thought (3) AS POL 

POT 4661 The Politics of Identity, Difference and Inequality MW (3) AS POL 

POT 4936 Selected Topics in Political Theory (3) AS POL 

PPE 4003 Personality (3) AS PSY 

PSB 4004C Physiological Psychology (3) AS PSY 

PSB 4444 Drugs and Behavior (3) AS PSY 

PSY 2012 Introduction to Psychological Science SS (3) AS PSY 

PSY 3017 Psychological Science II SS (3) AS PSY 

PSY 3204 Psychological Statistics 6A QM (3) AS PSY 

PSY 3213 Research Methods in Psychology (4) AS PSY 

PSY 4205 Experimental Design and Analysis (3) AS PSY 

PSY 4604 History and Systems of Psychology (3) AS PSY 

PSY 4913 Directed Study (1-3) AS PSY 

PSY 4933 Advanced Topics in Applied Behavior Analysis (4) AS PSY 

POT 4970 Honors Thesis (1-3) AS PSY 

PUP 4002 Public Policy (3) AS POL 

PUP 4203 Environmental Politics and Policy (3) AS POL 

PUP 4323 Women and Politics 6A MW (3) AS WST 

PUP 5607 Public Policy and Health Care (3) AS POL 

PUP 3000 Principles of Public Relations (3) AS COM 

PSY 3017 Psychological Science II SS (3) AS PSY 

PSY 3204 Psychological Statistics 6A QM (3) AS PSY 

PSY 4205 Experimental Design and Analysis (3) AS PSY 

PSY 4604 History and Systems of Psychology (3) AS PSY 

PSY 4913 Directed Study (1-3) AS PSY 

PSY 4933 Advanced Topics in Applied Behavior Analysis (4) AS PSY 

POT 4970 Honors Thesis (1-3) AS PSY 

PUP 4002 Public Policy (3) AS POL 

PUP 4203 Environmental Politics and Policy (3) AS POL
and problem-solving techniques used in professional practice. Analysis of the student's strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

**RED 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 4500 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 writings of Christian belief in the first century A.D. 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 designed to give students an overview of the world's major religions, and briefly exposes students to myths, rituals, history, primary beliefs, leaders, and other info 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 which can either create or resolve social conflicts, and the impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.

**REL 3000 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 (3) AS REL**
This course examines the phenomenon of religion, answering such questions as: Religion, what is it? Religious thought (mythology and theology) and religious behavior (ritual and morality) are closely examined from a variety of methodological perspectives.

**REL 3101 Religion and Popular Culture (3) SS 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 6A 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 6A MW (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 HP 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 non-majors.

**REL 3117 Religion and Contemporary American Sports HP SS (3) AS REL**
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 non-majors and is not repeatable for credit.

**REL 3120 Religion in America (3) AS REL**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 3131</td>
<td>New Religions in America (3) AS REL</td>
<td>This course concentrates on major social and cultural issues in Caribbean, Cuba, Haiti, Jamaica, and Trinidad, with emphasis on African-derived religions and Western and Eastern religious encounters.</td>
</tr>
<tr>
<td>REL 3132</td>
<td>Witchcraft and Paganism in America (3) AS REL</td>
<td>A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.</td>
</tr>
<tr>
<td>REL 3140</td>
<td>Religion, Culture, and Society (3) AS REL</td>
<td>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.</td>
</tr>
<tr>
<td>REL 3170</td>
<td>Religion, Ethics and Society through Film 6A SS HP (4) AS REL</td>
<td>An ethical analysis of contemporary social issues through contemporary films such as Wall Street and Crimes and Misdemeanors. A study of the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.</td>
</tr>
<tr>
<td>REL 3191</td>
<td>Life After Death MW (4) AS REL</td>
<td>An exploration of ideas about life after death and its relations to life in Judaism, Christianity, Islam, Hinduism, and Buddhism.</td>
</tr>
<tr>
<td>REL 3280</td>
<td>Biblical Archaeology MW (3) AS REL</td>
<td>An in-depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.</td>
</tr>
<tr>
<td>REL 3303</td>
<td>Comparative Religion: Judaism and Islam MW (3) AS REL</td>
<td>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 Qur'an and related traditions, and as Judaism the authoritative statements of the Torah, oral and written.</td>
</tr>
<tr>
<td>REL 3308</td>
<td>World Religions 6A HP SS (3) AS REL</td>
<td>World Religions gives students an overview of the major religions of the world from their formative periods up to modernity. Special attention is given to myths, rituals, history, beliefs, leaders and other information relevant to understanding the religions.</td>
</tr>
<tr>
<td>REL 3318</td>
<td>Introduction to Chinese Religion AF HP SS (3) AS REL</td>
<td>The course is for majors and nonmajors, and may not be repeated for credit. The course introduces the history and present state of the religious thoughts and practices in mainland China and the geographical areas in which the Chinese language is spoken.</td>
</tr>
<tr>
<td>REL 3330</td>
<td>The Religions of India AF (3) AS REL</td>
<td>All religions of the world came to India and all became Indian. What is this “Indianess” which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastranism and Bahai. Readings from classical texts and modern literature.</td>
</tr>
<tr>
<td>REL 3363</td>
<td>Introduction to Islam HP AF (3) AS REL</td>
<td>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).</td>
</tr>
<tr>
<td>REL 3367</td>
<td>Islam in the Modern World 6A HP AF (3) AS REL</td>
<td>Examines the major developments since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.</td>
</tr>
<tr>
<td>REL 3375</td>
<td>Issues in Caribbean Religions MW (3) AS REL</td>
<td>A comparative study of religious ethics emphasizing how 20th century social activists, such as Gandhi and M. L. King Jr. and ecumenists such as Kromhout, have drawn upon and transformed traditional religious stories and spiritual practices in order to create a cross-cultural and inter-religious ethic for a multi-cultural world.</td>
</tr>
</tbody>
</table>
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics, East and West.

REL 4215 Ancient Israel and the Development of the Hebrew Bible (3) AS REL
An exploration of the formation and composition of the Hebrew Bible in light of the religious, social, political, and historical developments in antiquity.

REL 4217 Who Wrote the Bible (Genesis-Kings) (4) AS REL
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 Near Eastern context.

REL 4218 Women and the Bible (6A HP AF MW LW) (3) AS REL
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.

An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, their historical context, Jesus research, and the social history of earliest Christianity.

REL 4250 Jesus' Life and Teachings (4) AS REL
An examination of the various historical studies made in the quest of identifying Jesus as an historical figure, the concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 New Testament II: Pauline Letters (4) AS REL
The purpose is to examine the text of the thirteen "Pauline Letters" in the New Testament, to compare them with the Pauline sections of Acts, and to ascertain possible theological development of Paul and the "Pauline wing" of Christianity.

REL 4333 Hinduism (4) AS REL
The philosophy of the saints; the complex rituals of the Brahmins; the art of their temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activism of Mahatma Gandhi—all of these are Hinduism, and more. Close readings of classical texts, philosophical systems and medieval poems.

REL 4343 Buddhism in India, Sri Lanka, and South East Asia (4) AS REL
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

REL 4344 Buddhist Art in China, Japan, and Tibet (4) AS REL
Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its development of Paul and the "Pauline wing" of Christianity.

REL 4626 Reason in Religion: Talmudic Logic (MW) (3) AS REL
An examination of the course will explore the impact of the Holocaust on Jewish and Christian thought and identity in the light of the history of religious and cultural anti-Semitism in Western civilization.

REL 4910 Undergraduate Research (1-4) AS REL
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4911 Undergraduate Research (1-4) AS REL
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4930 Selected Topics (3) AS REL
Course content depends on student demand and instructor's interest and may range over the whole field of Ancient Religions. Offered regularly based on the Bible as History 3.

REL 4931 Seminar in Religion (3) AS REL
PR: Majors and minors only or CI. A course required for Religious Studies majors and minors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

REL 4936 Selected Topics (1-4) AS REL
PR: Junior standing. Individual investigations with faculty supervision.

REL 4937 Selected Topics: Fall Honors Seminar (2) AS REL
PR: Acceptance into the Religious Studies Honors Program. The course content will depend upon student demand and instructor's interest.

REL 4938 Selected Topics: Spring Honors Seminar (2) AS REL
PR: Acceptance into the Religious Studies Honors Program. The course content will depend upon student demand and instructor's interest.

REL 4939 The Development of Religious Studies (4) AS REL
Course designed for senior majors and minors in religious studies. Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

RMI 3011 Principles of Insurance (3) BA FIN
Analysis of insurable risks of both businesses and individuals. An examination of the characteristics of those areas of risk and uncertainty where the mechanisms of insurance are effective alternatives. The concept, contracts, and institutions involved in insurance are examined in relation to the socio-economic environment.

RMI 4115 Life, Health, And Disability Insurance (3) BA FIN
PR: QMB 3200, RMI 3011. The course will analyze the use of life, health, and disability insurance contracts as a method of dealing with the financial risks of death, sickness, and disability. It will include an analysis of cost determination of the various types of coverage.

RMI 4210 Property Insurance (3) BA FIN
PR: RMI 3011. Course dealing with recognition of personal and business property risks, and coverage that can be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation coverages, and multiperil contracts. Not limited to Finance majors.

RMI 4220 Casualty Insurance (3) BA FIN
PR: RMI 3011. 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 workmen's compensation, public liability, auto liability, suretyship, and crime insurances. Not limited to Finance majors.

RTV 2100 Writing For Radio and TV (3) AS COM
PR: CRW 2100 or ENC 3310 and RTV 3001. The art and practice of script planning and writing for radio and television and for corporate videos.

RTV 3201 Introduction to Telecommunications (3) AS COM
PR: MMC 2100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3301 Broadcast News (4) AS COM
PR: MMC 2100 and MMC 3602. Methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 Radio Practicum (1) AS COM
PR: RTV 3001 and CI. For telecommunications sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

RTV 4220 TV Production and Direction (3) AS COM
PR: RTV 3001 and RTV 3301. A basic course in the techniques of producing and directing TV programs. Restricted to majors only.

RTV 4304 TV News (3) AS COM
PR: RTV 4320. Advanced television reporting, integrating broadcast news writing, ENG production and television performance.

RTV 4320 Electronic Field Production (3) AS COM
PR: RTV 3001 and RTV 3301. Advanced producing, scripting, lighting, camera, and editing for video and news production. Introduction to computer editing and graphics.

RTV 4500 Telecommunications Programming and Management (3) AS COM
PR: RTV 3001. Program and management concepts, resources, costs, selection, and scheduling. Analysis of programming and management in terms of station structures, appeals and strengths.

RTV 4942 TV Practicum (1) AS COM
PR: RTV 4220 and CI. For telecommunications sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a
RUS 1120 Beginning Russian I (4) AS WLE
CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1120L Beginning Russian I Laboratory (1) AS WLE
CR: RUS 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.

RUS 1121 Beginning Russian II (4) AS WLE
PR: RUS 1120 or CI. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1121L Beginning Russian II Laboratory (1) AS WLE
CR: RUS 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.

RUS 2200 Russian III (4) AS WLE
PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2201 Russian IV (4) AS WLE
PR: RUS 2200 or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2270 Overseas Study (1-6) AS WLE
Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia.

RUS 3240 Conversation I (4) AS WLE
PR: Second year Russian or equivalent. Development of basic conversational skills.

RUS 3470 Overseas Study (1-6) AS WLE
Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

RUS 3500 Russian Civilization 6A MW (3) AS WLE
A survey of the cultural history of Russia.

RUS 4241 Conversation II (4) AS WLE
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 LW (3) AS WLE
Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, 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, Zamyatin, Bulgakov, Pasternak, and Solzhenizyn. Elective for all students in all departments.

SCE 4236 Science, Technology, Society Interaction 6A MW (4) EDEDN
Achieve 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) intracies of science literacy.

SCE 4305 Communication Skills in the Science Classroom (3) EDEDN
Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.
SOW 4510 Integrative Seminar (3) AS SOK
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual’s behavior as it is affected by others.

SOP 4330 Social Psychology of HIV/AIDS (3) AS PSY
PR: PSY 2012, PSY 3017, SOW 3213: Students study social psychological research while working with at-risk populations in a service organization. They use the research as a framework for understanding and developing solutions to problems confronting the organization’s staff and clients.

SOP 4514 The Holocaust, Social Prejudice, and Morality (3) AS PSY
PR: PSY 2012. Examines the Holocaust from social, psychological, and communication/language perspectives. Reviews root causes of prejudice, the manifestation of language, relationships, and the ultimate impacts on victims and survivors and rescuers.

SOP 4714C Environmental Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

SOW 3101 Human Behavior and the Social Environment I (4) AS SOK
PR: All provisional major courses. Restricted to full Social Work majors, others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families.

SOW 3102 Human Behavior And The Social Environment II (4) AS SOK
PR: SOW 3101, SOW 4522, SOW 4341. Restricted to full Social Work majors; others by School permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, groups, organizations and communities.

SOW 3203 The American Social Welfare System SS (3) AS SOK
A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

SOW 3302 Introduction to Social Work (3) AS SOK
An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3401 Research and Statistics For Social Work (4) AS SOK
PR: All provisional major courses. Restricted to full Social Work majors; others by School permission. The purpose of this course is three-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4233 Social Welfare: Policy & Program (4) AS SOK
PR: All provisional major courses, SOW 3101, SOW 3401, SOW 4341, SOW 4522, SOW 3102, SOW 4343. CR: SOW 4510, SOW 4510L. Restricted to full Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4341 Multi-Methods of Social Work Practice I: Micro-System Intervention (5) AS SOK
PR or CR: SOW 3101; SOW 4522. All provisional major courses. Restricted to full Social Work majors; others by School permission. First practice course emphasizing development of skills and techniques for interfacing with individuals, families, and small groups. Course includes both didactic and experiential learning components.

SOW 4343 Multi-Methods of Social Work Practice II: Macro-System Intervention (5) AS SOK
PR: All provisional major courses, SOW 3101, SOW 4522, SOW 4341; must be taken as PR. CR: SOW 4301, and SOW 3102. 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 content of SOW 4341. Course includes both didactic and experiential learning components.

SOW 4510 Integrative Seminar (3) AS SOK
PR: SOW 3302, SOW 3203, SOW 3101, SOW 4341, SOW 3102, SOW 4343, SOW 4522. CR: SOW 4233, SOW 4510L. Restricted to full Social Work majors in senior year. Integrates content and theory from core classes with practice experiences. Students are having in all areas of social work practice.

SOW 4510L Field Placement (6) AS SOK
PR: SOW 3302, SOW 3203, SOW 3101, SOW 3401, SOW 4341, SOW 3102, SOW 4522, SOW 4343, CR: SOW 4333, SOW 4510. SOW 4510L. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field with a total of 480 clock hours per semester.

SOW 4522 Multicultural America (3) AS SOK
PR: All provisional major courses. The course focuses on the students’ understanding of multicultural and intergenerational issues.

SOW 4900 Directed Readings (1-9) AS SOK
PR: Completition of four social work courses including SOW 3401, upper level standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed.

SOW 4910 Directed Research (1-6) AS SOK
PR: Completion of four social work courses including SOW 3401, upper level standing and school permission. Majors only. Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying nature of work to be completed.

SOW 4930 Variable Topics in Social Work (1-3) AS SOK
Restricted to Social Work majors; others by School permission. Variable title course to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student’s educational interest.

SOW 5930C Selected Topics in Social Work (1-4) AS SOK
PR: CC. Restricted to Social Work majors, both graduate and undergraduate; others by School permission. Course is taken as an elective. Various title course will selectively expand specific social work content areas.

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 differentiating developmental delay or disorder of language.

SPA 3011 Introduction to Speech Science (3) AS CSD
PR: SPA 3030, SPA 3101 and SPA 3112. Concentration 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 3012 An Introduction to Hearing Science (3) AS CSD
PR: Junior standing, SPA 3101, SPA3112, SPA3120. 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 3112 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 3612C Basic American Sign Language (4) AS CSD
PR: DPR. Introduction to American Sign Language (ASL) as used in general deaf community, and by School permission to introduction to 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 3633 American Deaf Culture (3) AS CSD
PR: SPA 4612C. 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
USF Course Descriptions 391

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 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 orient 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 practitioners in the University clinical laboratory. Ethical issues, multicultural concerns, and creativity are stressed through clinical and practical projects.

SPA 4201 Phonological Development and Disorders (3) AS CSD
PR: SPA 3004, SPA 3011. 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 4210 Vocal Disorders (3) AS CSD
PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be stressed.

SPA 4214 Fluency Disorders (3) AS CSD
PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, and procedures 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, 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 4617C Structure of Sign Language (4) AS CSD
PR: SPA 3612C and SPA 4613C. This course is a basic introduction of semiotic and linguistic consideration of American Sign Language (ASL). It includes aspects of phonology, morphology, syntax, semantics, and discourse of ASL. A one-hour laboratory is incorporated into the coursework.

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 4625 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 4655 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 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 UG 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 (1-10) 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 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 5132 Audiology Instrumentation (3) AS CSD
PR: DPR. Calibration, usage, and specific applications of specialized instrumentation for developing with the identification and measurement of hearing disorders.

SPA 5150L 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 5204 Advanced Clinical Phonology (3) AS CSD
The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a child’s phonology more functional for communication purposes.

SPA 5281 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 5303 Auditory Anatomy and Physiology (3) AS CSD
Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiological measurement paradigms.

SPA 5312 Peripheral and Central Auditory Tests (4) AS CSD
PR: DPR. The study of peripheral and central electrophysiologic clinical tests designed to assess the functions of the peripheral and the central auditory system. Tests that incorporate nonspeech stimuli and those that utilize speech stimuli will be included.

SPA 5328 Rehabilitative Audiology for Adults (3) AS CSD

SPA 4650 Language-Learning in the School-Age Years (3) AS CSD
PR: SPA 4201 and DPR. Metalinguistic and metacognitive development are linked to the interactional 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 (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 improving 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: Junior standing 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 Rhetorical Theory HP (3) AS SPE
This course surveys the foundations and historical evolution of major concepts, issues, theorists, 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 informally structured settings with emphasis on the understanding, description, and analysis of human communication.

SPC 3425 Group Communication 6A (3) AS SPE
PR: Junior standing 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, preparation in debate problem and delivery.

SPC 3602 Advanced Public Speaking (3) AS SPE
PR: SPC 2600 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: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.

SPC 3680 Rhetorical Analysis (3) AS SPE
This course introduces students to fundamentals of message analysis. Students examine 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
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: Junior/Senior standing or CI. Study of emotional experience, what emotions mean to us, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.

SPC 4310 Relationships on Film (3) AS SPE
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 4541 Family Communication (3) AS SPE
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 in the rhetorics of institutions, campaigns, social movements and individuals.

SPC 4683 Rhetorical Analysis of Mass Media (3) AS SPE
PR: SPC 3230 or SPC 3681; Open to non-majors with 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 possibilities and problems of contemporary forms of community through service in a voluntary organization.

SPC 4900 Directed Readings (1-3) AS SPE
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours. Individual investigations with faculty supervision.

SPC 4903 Honors Readings (3) AS SPE
PR: Admission to Communication Honors Program. Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.

SPC 4905 Undergraduate Research (1-3) AS SPE
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours. 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: Senior standing, minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and CI. Communication major. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.

SPC 5230 Honors Thesis with 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
Variable topics course.

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>PR/Co-req</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 1130</td>
<td>Accelerated Spanish For Near-Native Speakers and Others</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: CI. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.</td>
</tr>
<tr>
<td>SPN 2200</td>
<td>Spanish III</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 1121 or equivalent. May NOT be taken concurrently with SPN 2201. May be taken concurrently with SPN 2201.</td>
</tr>
<tr>
<td>SPN 2201</td>
<td>Spanish IV</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. May NOT be taken concurrently with SPN 2200.</td>
</tr>
<tr>
<td>SPN 2240</td>
<td>Conversation I</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2201. Not open to native or near-native speakers of Spanish.</td>
</tr>
<tr>
<td>SPN 2270</td>
<td>Overseas Study</td>
<td>1-6</td>
<td>AS WLE</td>
<td>PR: SPN 1121. Prior departmental approval and early registration required.</td>
</tr>
<tr>
<td>SPN 3300</td>
<td>Advanced Spanish Grammar and Composition</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. Not open to native or near-native speakers of Spanish.</td>
</tr>
<tr>
<td>SPN 3340</td>
<td>Advanced Spanish for Native Speakers I</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: Native and near-native oral/aural proficiency. May not count as Spanish major elective.</td>
</tr>
<tr>
<td>SPN 3341</td>
<td>Advanced Spanish for Native Speakers II</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 3340. May not count as Spanish major elective.</td>
</tr>
<tr>
<td>SPN 3440</td>
<td>Spanish for Business and International Trade I</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. A study of vocabulary and business practices of the Spanish speaking world.</td>
</tr>
<tr>
<td>SPN 3441</td>
<td>Spanish for Business and International Trade II</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 3440 or equivalent. Open to Spanish and Business majors and minors. Continuation of SPN 3440.</td>
</tr>
<tr>
<td>SPN 3500</td>
<td>Spanish Civilization</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. The culture and civilization of Spain. For majors and non-majors.</td>
</tr>
<tr>
<td>SPN 3520</td>
<td>Spanish American Civilization</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.</td>
</tr>
<tr>
<td>SPN 4301</td>
<td>Expository Writing</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 3300 or SPN 3340. Practical training in contemporary Spanish structure, usage and stylistic devices.</td>
</tr>
<tr>
<td>SPN 4410</td>
<td>Advanced Conversation</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 2241 or equivalent. Not open to native or near-native speakers of Spanish. Intensive practice in the formulation and presentation of ideas in standard Spanish.</td>
</tr>
<tr>
<td>SPN 4470</td>
<td>Overseas Study</td>
<td>1-6</td>
<td>AS WLE</td>
<td>PR: SPN 2270. Departmental approval required. Intensive language study in Spain.</td>
</tr>
<tr>
<td>SPN 4700</td>
<td>Spanish Linguistics</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: LIN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.</td>
</tr>
<tr>
<td>SPN 5525</td>
<td>Modern Spanish American Civilization</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.</td>
</tr>
<tr>
<td>SPN 5587</td>
<td>Modern Spanish Civilization</td>
<td>3</td>
<td>AS WLE</td>
<td>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. Texts and discussions in Spanish.</td>
</tr>
<tr>
<td>SPW 4100</td>
<td>Survey of Spanish Literature I</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.</td>
</tr>
<tr>
<td>SPW 4101</td>
<td>Survey of Spanish Literature II</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.</td>
</tr>
<tr>
<td>SPW 4130</td>
<td>Survey of Spanish American Literature I AF</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 3030 or equivalent. Introduction to the study of Spanish American literature from the discovery to the Romantic period. Emphasis will be on foundational writings of history, descriptive and lyric poetry, theater, fiction and essay.</td>
</tr>
<tr>
<td>SPW 4131</td>
<td>Survey of Spanish-American Literature II</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 3030 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.</td>
</tr>
<tr>
<td>SPW 4900</td>
<td>Directed Study</td>
<td>1-3</td>
<td>AS WLE</td>
<td>PR: Departmental approval required.</td>
</tr>
<tr>
<td>SPW 4930</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS WLE</td>
<td>PR: Study of an author, movement or theme.</td>
</tr>
<tr>
<td>SPW 5135</td>
<td>Colonial Spanish American Literature</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 4131. Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.</td>
</tr>
<tr>
<td>SPW 5355</td>
<td>Spanish American Drama and Poetry</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 4131. Major writers of all genres. Emphasis on modern writers.</td>
</tr>
<tr>
<td>SPW 5387</td>
<td>Spanish American Prose</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 4131. Emphasis on the gauchito theme and contemporary prose fiction.</td>
</tr>
<tr>
<td>SPW 5388</td>
<td>Golden Age Poetry and Drama</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.</td>
</tr>
<tr>
<td>SPW 5405</td>
<td>Medieval Literature</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 4100 or equiv. Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina.</td>
</tr>
<tr>
<td>SPW 5605</td>
<td>Cervantes</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: Cervantes’ masterpieces. Don Quijote de la Mancha.</td>
</tr>
<tr>
<td>SPW 5725</td>
<td>Generation of 1898</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: SPW 4101. The major figures of the period and their main followers.</td>
</tr>
<tr>
<td>SPW 5934</td>
<td>Selected Topics</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: Upper-level or GS. Study of an author, movement, or theme.</td>
</tr>
<tr>
<td>SSE 4313</td>
<td>Teaching Elementary (K-6) Social Studies</td>
<td>3</td>
<td>ED EDE</td>
<td>PR: Admission to College of Education or CI. This course is designed to study techniques and strategies employed by K-6 social studies teachers that are effective in motivating elementary school aged youth to acquire the information, skills, and modes of reasoning unique to the social sciences.</td>
</tr>
<tr>
<td>SSE 4333</td>
<td>Teaching Middle Grades Social Science</td>
<td>3</td>
<td>ED EDW</td>
<td>PR: This course is designed to study techniques and strategies employed by social sciences teachers that are effective in motivating teenage youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present instructional plan(s) demonstrating use of various methods, techniques, and materials that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Field work is required.</td>
</tr>
<tr>
<td>SSE 4334</td>
<td>Teaching Secondary Grades Social Science</td>
<td>3</td>
<td>ED EDW</td>
<td>PR: SSE 4333. This course is a continuation of SSE 4333 with further development of the instructional techniques and strategies and an understanding of communication to the social sciences with an emphasis on the secondary school.</td>
</tr>
</tbody>
</table>
SSE 4335 Teaching Social Science Themes (3) ED EDI
PR: SSE 5331, SSE 5332, SSE Majors only. The course is a laboratory-based capstone course in which the knowledge, skills, and dispositions learned in SSE 5333 and SSE 5334 are brought together and demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 4380 Global And Multicultural Perspectives in Education (3) M W (3) ED EDW
PR: EDG 3604 and EDG 4620, or DPR. Examination of the major issues surrounding understanding and multicultural perspectives in education. Available to non-Education majors.

SSE 4600 Reading and Basic Skills in the Social Studies Class (3) ED EDW
Reading skills and other basic skills as applied to the social studies are examined. Students plan and present instruction appropriate to the social studies classroom. Fieldwork in middle or senior high schools is required. Restricted to majors.

SSE 4640 Communication Skills in the Social Sciences (2) ED EDW
PR: SSE 4333, SSE 4334. This course emphasizes preparation for instruction and demonstration of instructional techniques in social sciences covered in SSE 4333 and SSE 4334 with an emphasis on students developing their communication, presentation, and organizational skills.

SSE 4670 Economics USA: Principles of Economics for Teachers (3) S/U only. A television course focusing on content and teaching methodology related to micro/macroeconomic principles.

SSE 4936 Senior Seminar in Social Science Education (2) ED EDW
PR: SSE 4940. Synthesis of teacher candidate’s courses and preparation for the professional interview and application process.

SSE 4940 Internship: 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.

SSE 5331 Foundations, Curriculum & Instruction of Social Science Education (3) ED EDI
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.

SSE 5332 Methods & Strategies in Social Science Education (3) E D E D
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.

SSE 5641 Reading and Basic Skills in the Content Area (3) ED EDI
Reading skills and the other basic skills as applied to the social studies 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.

SSE 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 2022 Basic Statistics 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 CPT score. No credit for Mathematics Majors. Basic philosophy of statistical thinking. Acquaintanceship with the techniques for organizing and presenting statistical data. Sample mean, variance and standard deviation. Statistical decisions—estimation and hypothesis testing. Design of experiments, linear association and prediction. Statistical software: MINITAB.

STA 2023 Introductory Statistics I 6A QM (4) 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 6A QM (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 hypothesis from a wide range of disciplines.

STA 3024 Introductory Statistics II 6A (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 4442 Introduction to Probability 6A (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.

STA 5166 Statistical Methods I (3) AS MTH PR: STA 4321 or CI. Sampling versus total enumeration. Planning of a survey. Statistical sampling methods and their analysis; simple, stratified, systematic cluster, and double and multistage sampling. Use of auxiliary information in sampling. Ratio and regression estimates. Case study.

STA 5226 Mathematical Statistics I (3) AS MTH PR: STA 5446. Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

STA 5446 Probability Theory I (3) AS MTH PR: STA 4442 and MAA 4212 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 5526 Non-Parametric Statistics (3) AS MTH PR: STA 5326 or CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.

SUR 2101C Engineering Land Surveying (3) EN EGX Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.

SYA 3010 Classical Theory (3) AS SOC PR: SYG 2000 or CI. The analysis of the philosophical foundations, central principles, and historical development of Sociological theory. Required for Sociology majors and minors.

SYA 3015 Contemporary Theory (3) AS SOC PR: SYA 3010 and SYG 2000 or CI. An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

SYA 3202 Constructing Social Problems (3) AS SOC Examination of how activists, media, politicians, and scientists construct public images of social problems. Emphasis on the process of forming social policy and how public images of social problems shape the characteristics of social service agencies.

SYA 3300 Research Methods (3) AS SOC PR: STA 2022 or equivalent. Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

SYA 3310 Qualitative Inquiry (3) AS LW (4) AS SOC PR: SYG 2000 or CI. DPR. Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives.

SYA 4910 Individual Research (1-3) AS SOC
SYD 4341 Peasant Perspectives AF (3) AS SOC
PR: SYG 2000 or 6 hours of other Social Sciences Gen. Ed. coursework.
Court examines the applicability of sociological concepts to peasant life around the world, and explores the roles played by “western” societies in creating and sustaining the conditions under which peasants live.

SYD 4410 Urban Sociology (3) AS SOC
The social structure of the community in modern industrial societies. Analysis of community change.

SYD 4411 Urban Life (3) AS SOC
CSO: 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.

SYG 3060 Sociology of Sexualities (3) AS SOC
PR: SYG 2000 or CI. An examination of the meanings of sexuality, how they are constructed in each culture, and how they change over time.

SYG 4000 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.

SYG 4010 Drugs and Society (3) AS SOC
PR: SYG 2000 or CI. This course will examine 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.

SYG 4220 Consumer Culture LW (3) AS SOC
PR: SYG 2000 or CI. The exploration of how Americans’ consuming behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.

SYG 4500 Sociological Aspects of Deviance (3) AS SOC
PR: SYG 2000 or CI. An introduction to one of the most common features of modern societies, social inequality and the reasons for its persistence.

SYG 4510 Social Movements SS (3) AS SOC
PR: SYG 2000 or CI. An examination of the social forces that affect governmental, political, and institutional behavior.

SYG 4630 Disability and Society WM (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 context to a better understanding of the nature of social experience.

SYG 4640 Leisure in Society SS (3) AS SOC
PR: SYG 2000 or CI. The study of leisure and self-development.

SYG 4650 Sport in Society (3) AS SOC
PR: SYG 2000 or CI. The examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social issues, economics, media, and the sport group as a micro-social system.

TAX 4001 Concepts of Federal Income Taxation (3) BA ACC
PR: ACG 2021. Major concepts used in taxation of income by the federal government including enactment of tax laws, basic tax
research, preparation of basic tax returns and exploration of tax issues. Required of all majors. Open to non-majors. 

TAX 5015 Federal Taxation of Business Entities (3) BA ACC 
PR: TAX 4001 with a grade of "C" or better (not C-). Tax issues encountered by small businesses. Includes tax planning, capital gains, depreciation and amortization, tax compensation and tax alternatives. 

THE 2005 Languages of the Stage FA (3) VP TAR 
Focuses on the variety of approaches to theatrical performance. The purpose of this course is to develop an awareness of the range of contemporary performance practices through a combination of lecture, discussion, theatre attendance, and experiential learning. Provides opportunities for critical thinking and reflection about theatre in contemporary 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 multi-cultural. Required of all theatre majors. 

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. A study of theatre history in more detail as a companion to Theatre History II. 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 3111 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 
PR: THE 3110 or THE 3111 and one of the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4434, THE 4435, THE 4442, THE 4480. Open to senior non-majors with CI. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena (e.g. Aristotle’s Poetics) can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors. 

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 decor from ancient Egypt to the 20th Century. (A requirement in the design track/costume.) 

THE 4320 Theatre of Myth and Ritual/Northern European (950-1600) & Oriental (400-1200) 6A MW LW (3) VP TAR 
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. An investigation into the interrelationship of myth, ritual, and theatre. Considers northern European liturgical and secular plays as compared with Hindu, Chinese, and Japanese drama. 

THE 4330 Shakespeare for The Theatre 6A MW LW (3) VP TAR 
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A close study of selected plays with special emphasis on their performance values. 

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. Survey of the European art theatre revolution against the backdrop of the 19th Century and the theories and aesthetics of the time. Required majors. 

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 3110 or THE 3111. Open to upper level non-majors with CI. An introduction to the Caribbean theatre. Focuses on the culture and society of the Caribbean, the impact of politics on literature, and the political forces that shape the theatre and the arts. 

THE 4435 Theatre of Pluralism 6A MW LW (3) VP TAR 
PR: THE 3110 or 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-Classical Stage 6A MW LW (3) VP TAR 
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A study of comedic function in scripts from Greek and Roman, Renaissance and French neoclassicism 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 group 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. Restricted to majors only. 

THE 4594 Honors Practicum (3) VP TAR 
PR: THE 4593. Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill. 

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 4761 Methods of Teaching Theatre for Adolescents (3) VP EDUC 
Methods of effective drama and theatre instruction in middle school, junior and high schools, recreation centers, community, and professional theatres. 

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 5909 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. 

THE 5931 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. 

TPA 2200 Introduction to Technical Theatre I (3) VP TAR 
CR: TPA 2290L or CI. An introductory course in technical production including coursework in the areas of scenic construction, theatre production, organization, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2290L and TPA 2291L. Open to non-majors. 

TPA 2211 Introduction to Technical Theatre II (3) VP TAR 
CR: TPA 2291L or CI. An introductory course in technical production including stage lighting, costume construction, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2200 and TPA 2290L. Open to non-majors. 

TPA 2248 Workshop In Stage Makeup (1) VP TAR 
Beginning theory and practice in make-up for the stage. Open to non-majors. 

TPA 2290L Technical Theatre Lab I (1) VP TAR 
CR: TPA 2200 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production in the areas of scenic design, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors. 

TPA 2291L Technical Theatre Lab II (1) VP TAR 
CR: TPA 2211 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production in the areas of scenic design, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors. 

TPA 2299L Technical Theatre Lab III (1) VP TAR 
CR: TPA 2211 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production in the areas of scenic design, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.
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 3008 Introduction to Design II (3) VP TAR
PR: TPA 3007. This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization.

TPA 3508 Drafting and CAD I (3) VP TAR
PR: TPA 2200, TPA 2211, TPA 2290L and TPA 2291L. The course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an opportunity to develop skills and techniques in the visual presentation of various design and technical drafting. Open to non-majors.

TPA 3221 Lighting: Theory And Practice (3) VP TAR
PR: TPA 3208 or CI. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. A requirement in the design track/lighting.

TPA 3231 Costume Construction (3) VP TAR
PR: TPA 3208 or CI. A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, courtesy; both period and modern.

TPA 3251 Drafting and CAD II (3) VP TAR
PR: TPA 3208. Continuation of TPA 3208. The course will include lectures, demonstrations, field trip(s), individual student presentations, and studio activities. The course work will provide an opportunity to develop your skills and techniques in the visual presentation of various design and technical drafting. Open to non-majors.

TPA 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.

TPA 3296 Design Practicum (2) VP TAR
PR: TPA 3008. This is a studio/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.

TPA 3601 Stage Management (2) VP TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other performance situations.

TPA 3840 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.

TPA 4011 Design Studio I (3) VP TAR
PR: TPA 3008 and TPA 3208 plus two of TPA 3231, TPA 3221, or TPA 3251. TPA 4011 will include studio design project activities in the areas of costume, lighting and scenic design. The course work 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 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 work 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 4273 Stage Properties: Techniques And Materials Studio (2) VP TAR
PR: TPA 2200, TPA 2290L. This is a studio/laboratory course in the practical aspects of production. The course is intended to provide real treatment of the intimate area of stage properties with an emphasis on their use for the stage performer.

TPP 2190 Studio Theatre Performance I (1) VP TAR
PR: TPP 2110, THE 2020. A practical laboratory involving the rehearsal and performance of a play. May be repeated twice for a total of 9 hours credit. Open to upper level non-majors by audition only. The content of the course will be governed by student demand and instructor interest.

TPP 3121 Improvisation (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 presentation.

TPP 3230 Laboratory Workshop In Performance (3) VP TAR
PR: Audition and TPP 2110. May be repeated twice for a total of 9 hours credit. Open to upper level non-majors by audition only. The content of the course will be governed by student demand and instructor interest.

TPP 358 Special Skills In Movement (2) VP TAR
PR: TPP 2110 or CI. May be repeated for credit. Open to upper level non-majors with CI. Stage combat, circus and acrobatic techniques, and other special techniques of movement.

TPP 359 Voice Preparation For The Actor (2) VP TAR
PR: TPP 2110. A concentrated laboratory on freeing the breathing function, developing body and oral resonance, and strengthening muscles used on the formation of speech sounds.

TPP 3708 Acting Studio I (3) VP TAR
PR: Audition, low level core theatre courses and junior standing. An intensive and comprehensive ensemble workshop that explores the basic principles of acting and the skills necessary for play, scene and character analysis. An emphasis is placed.
on the integration of body, voice, mind and emotions. This course will be taught by the Performance faculty.

TTP 3921 Acting Studio II (3) VP TAR
PR: TTP 3920. A continuation of Acting Studio I with greater emphasis on addressing individual needs in order to explore emotionally complex characters and scenes in an intensive and systematic way. This course will be team taught by the Performance faculty.

TTP 4140 Styles Of Acting (3) VP TAR
PR: TTP 3921 or audition or CI. Examination of the actor’s craft and skills needed to fulfill the demands of classical theatre forms.

TTP 4180 Advanced Scene Study (3) VP TAR
PR: Audition and TTP 3155 of TTP 3921. An acting workshop focusing on application of character development and rehearsal techniques over a sustained period leading toward a project showing at semester’s end.

TTP 4193 Studio Theatre Performance II (1) VP TAR
PR: TTP 2190. 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.

TTP 4220 Audition Workshop for Actors (2) VP TAR
PR: TTP 3155 or TTP 3921. Preparation for professional audition; discussion of professional objectives.

TTP 4310 Directing I (3) VP TAR
PR: TTP 3155 or TTP 3230. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

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

TTP 4500 Writing For The Theatre (3) VP TAR
PR: TTP 3110 or THE 3111. An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes.

TTP 4920 Senior Workshop For Actors (3) VP TAR
PR: TTP 2550, TTP 3920, TTP 3155, or TTP 3921. A workshop in character and physical acting and body work for the advanced professional actor. Normally the aim would be to complete several performance-worthy self-contained scenes.

TTP 4923 Music Theatre Workshop (3) VP TAR
PR: TTP 2110 and audition. Open to non-majors by audition only. Examination of the musical Theatre material and performance techniques for the performer. Individual and ensemble work.

TSL 4374 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.

TSL 5321 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.

TSL 5371 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.

TSL 5372 ESOL Curriculum and Instruction (3) AS WLE
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5471 Language Testing (3) AS WLE
PR: TSL 5371. Lecture course on testing English as a second/ foreign language.

TSL 5525 Cross-Cultural Issues in ESL (3) AS WLE
PR: LIN 5700. Lecture course on cultural issues in Teaching English as a Second/Foreign language.

TTE 4004 Transportation Engineering I (3) EN EGX
PR: EGN 3321. Principles of surface transportation system development, design, and operations; advanced characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queueing, capacity and signalization; transportation planning and economics.

TTE 4005 Transportation Planning and Economics II (3) EN EGX
PR: TTE 4004. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments, and super-elevation; drainage, soils, and rigid and flexible pavement design; right-of-way acquisition and Environmental Impacts; site layout & design, and operation of alternate models including bus, air, rail, water, and pipelines.

TTE 5205 Traffic Systems Engineering (3) EN EGX
PR: TTE 4004 or equivalent. Traffics models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

TTE 5501 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, evaluation and choice of transportation alternatives.

URP 4050 City Planning and Community Development (3) AS PR
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

URP 4051 Urban and Regional Planning (4) AS HP
PR: GEO 2420, GEO 3602. The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

URS 3002 Introduction to Urban Studies (3) AS ISS
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.

VIC 3001 Introduction to Visual Communications (3) 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.

VIC 3943 Visual Communication Practicum (1) AS COM
PR: TPP 4310 and CI. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

WOH 3293 Islam in World History AF HP (4) AS HTY
This course examines the origins, spread, and development of Islam within the context of the main global historical processes and events of the past 1500 years.

WST 2250 Female Experience in America HP (3) AS WST
The female experience in America, in historical context, with an emphasis on women in families of various classes, races, and ethnic groups from colonial times to 1870.

WST 2600 Human Sexual Behavior SS (3) AS WST
The dynamics of human sexuality; biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially human sexuality.

WST 3015 Introduction to Women's Studies SS AF (3) AS WST
An introduction to the development of Women's Studies in the United States and the diverse communities it has created. Study of the Tampa Bay region is emphasized.

WST 3210 European Feminist History: Pre-18th Century 6A HP (3) AS WST
Survey of European feminist history prior to the 18th century (focusing primarily on Western Europe). Examines women's lives, roles, ideas, as well as origins of Western attitudes toward women and families. No prerequisites.

WST 3220 European Feminist History: Enlightenment to the Present HP (3) AS WST
Survey of European feminist history from the 18th century through the 20th century (focusing primarily on Western Europe). Examines women's lives, roles and ideas, as well as the dominant attitudes toward women over this time period.

WST 3225 Women, Environment and Gender MW (3) AS WST
Course designed to: provide students with a basic understanding of relationships between women's physical, health and...
WST 3311 Issues in Feminism SS (3) AS WST
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

WST 3440 Women and Social Action SS (3) AS WST
Course focuses on ordinary women working collectively in diverse social settings, to empower themselves and others to challenge gender stereotypes; to reduce harassment, poverty, violence and homelessness; to enhance health-care and family life and to confront barriers in education, the media and the criminal justice system.

WST 4262 Literature by Women of Color in the Diaspora 6A LW (3) AS WST
Will not be counted toward the English major. An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues.

WST 4310 History of Feminism in the U.S. 6A 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 form a feminist perspective, with a special emphasis on ways in which we can inform and help ourselves.

WST 4335 Women and Film (4) AS WST

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 Third World Women Writers 6A LW (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. writers 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 examination of feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.

WST 4900 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 5305 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 topical areas 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 5825 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 an 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 orthography 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 2303 Vertebrate Zoology (3) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. The origin, diversity, and adaptations of the vertebrates. Phylogenetic systematics (cladistics) will be used as the basis for determining evolutionary relationships of organisms. Monophyletic groupings provide a framework for examining behavior, physiology, and ecology in an explicit evolutionary context. Vertebrates common to Florida and the southeastern United States will be emphasized.

ZOO 2710C Anatomy of Chordates (4) AS BIO

ZOO 3205C Advanced Invertebrate Zoology (4) AS BIO
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. An introduction to the major invertebrate groups, with emphasis on local forms. Field work will be required. Lec.

ZOO 3713C Comparative Vertebrate Anatomy (4) AS BIO

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 4513C Animal Behavior (3) AS BIO
PR: PCB 3043 or PCB 3063. An introduction to comparative animal behavior (Ethology), with emphasis on communication, social use of space, and behavioral evolution.

ZOO 4603 Animal Embryology (4) AS BIO

ZOO 4753C Histology (4) AS BIO
PR: PCB 3023 and PCB 3063. Comparative approach to the study of tissues and the relation of their structure and function. Lec.-Lab.

ZOO 5235 Parasitology (3) AS BIO
PR: MCB 3020C, PCB 3023, PCB 3043, PCB 3063, ZOO 3205C, ZOO 4753C, CI. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man.

ZOO 5456 Ichthyology (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.

ZOO 5456L Ichthyology Lab (1) AS BIO
CR/PR: ZOO 5456 Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

ZOO 5463C Herpetology (4) AS BIO
PR: CI. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-Lab. Field trip.

ZOO 5555C Marine Animal Ecology (4) AS BIO
PR: PCB 3043, senior standing, CI. Investigation of energy flow, trophic chemical cycles, and community structure in marine environments. Lec.-Lab.