ACG 2021 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 2021 with a grade of C- or better  
A study of the accountant's role in assisting management in the planning and controlling of business activities.

ACG 3074 Managerial Accounting for Non-Business Majors (3)  
BA ACC  
The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.

ACG 3103 Intermediate Financial Accounting I (3)  
BA ACC  
PR: ACG 2021 and ACG 2071, with a grade of C or better, not C-  
CR: ACG 3341, with a grade of C or better, not C-  
Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, leases, tax allocation, statement of cash flows.

ACG 3113 Intermediate Financial Accounting II (3)  
BA ACC  
PR: ACG 3103 and ACG 3341, with a grade of C or better, not C-  
Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, leases, tax allocation, statement of cash flows.

ACG 3341 Cost Accounting and Control I (3)  
BA ACC  
PR: ACG 2021 and ACG 2071 with a grade of C or better, not C-  
CR: ACG 3341 with a grade of C or better, not C-  
Theory and methodology underlying financial reporting, including the FASB's conceptual framework, the accounting process, financial statements, accounting changes, present value application, and current assets.

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

ACG 4632 Auditing I (3)  
BA ACC  
PR: ACG 3113 and ACG 3401  
This course provides a sound conceptual foundation of basic auditing process from the perspective of the 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  
Specialized independent study determined by the students' needs and interests.

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

ACG 4931 Selected Topics in Accounting (1-3)  
BA ACC  
The course content will depend on student demand and instructor's interest.

ACG 4940 Accounting Internship (3)  
BA ACC  
The course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.

ACG 4970 Accounting Honors Thesis (3)  
BA ACC  
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

ACG 5007 MBA Essentials: Accounting (0)  
GBA  
A survey course related to both financial accounting and managerial accounting. An examination of accounting concepts for presentation of financial information to interested users as well as information generated for internal management.

ACG 5205 Advanced Financial Accounting (3)  
BA ACC  
PR: ACG 3113  
error analysis, full disclosure, and other current accounting topics.
### COURSE DESCRIPTIONS

#### Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.

**ACG 5505 Governmental/Not-For-Profit Accounting (3) BA ACC**
- **PR:** ACG 3113
- **CR:** ACG 4632
- Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

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

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

**ADV 3008 Introduction to Advertising (3) AS COM**
- **PR:** MMC 2100 and MMC 3602
- 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 Creativity (3) AS COM**
- **PR:** ADV 3008 and ECO 1000
- Study of copywriting and art direction in the creation of advertising messages for alternative media platforms. Restricted to majors only.

**ADV 3200 Advertising Design (3) AS COM**
- **PR:** ADV 3008 (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 3008 and ECO 1000
- Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

**ADV 3500 Advertising Research (3) AS COM**
- **PR:** ADV 3008
- 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 4204 Advanced Advertising Creativity (3) AS COM**
- **PR:** ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023
- Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, conceiving, persuasion, copywriting, design, and presentations. Students learn to execute effective advertising messages.

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

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

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

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

**ADV 4800 Advertising Campaigns (3) AS COM**
- **PR:** ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023
- Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

**ADV 4940 Advertising Practicum (1) AS COM**
- 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.

**ADV 5005 Advertising Planning (3) AS COM**
- Introduction to the process of developing advertising strategy, emphasizing theory and research methods. Applied research course to bridge research methods with execution of creative messaging strategies that drive business success.

**AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora] CASB 6AC (3) AS AFA**
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Fundamental perspectives on the nature and significance of the Black Experience in Africa and black communities in the Americas.

**AFA 2380 History and Theory of Genocide CAGC (3) AS AFA**
This course examines the concept of genocide; its origins in human history and the evolution of international law aimed at defining and criminalizing genocide.

**AFA 4150 Africa and the United States 6AC (3) AS AFA**
An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

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

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

**AFA 4430 Afro-Diasporic Literature and Political Movements CPST HHCP (3) AS AFA**
The course studies the literary and socio-political movements of the Black Diaspora, dating from the 19th to the 20th century. Centered within a diasporic approach, it offers a comparative examination of literary, historical, and theoretical works.

**AFA 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.

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

**AFA 4931 Selected Topics in Africana Studies (1-3) 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.

**AFH 3100 African History to 1850 CAHU HHCP (3) AS AFA**
Introductory survey of African history, from the beginning of the continent's recorded history, to 1850. Course teaches skills reflected in the core foundations of knowledge in the General Education Curriculum.

**AFH 3200 African History since 1850 CAHU HHCP (3) AS AFA**
Introductory survey of the history of Africa since 1850. Course looks at the state of the African continent in 1850 and the local and global factors that have shaped Africa's history since that time.

**AFR 1101 The Foundation of the United States Air Force Pt 1 (1) US AFR**
Intro Air Force Reserve Officer Training Corps (AFROTC) & US Air Force (USAF) includes lessons in officership/professionalism and an intro to communication skills. AFR 2001 Lead Lab augments course providing followership and leadership experiences.

**AFR 1120 The Foundations of the United States Air Force Pt 2 (1) US AFR**
A study of Air Force installations, Core Values, Leadership, Team Building, and Diversity within Armed Forces. AFR 2001 Lead Lab augments course providing followership and leadership experiences, utilizing leadership and management principles.

**AFR 1903 Directed Independent Studies (1-4) US AFR**
Directed Independent Study.

**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. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.

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

**AFR 2140 Evolution of USAF Air and Space Power, Part II (1) US AFR**
CR: AFR 2001
A historical review of air power employment in military and nonmilitary operations in support of national objectives. Emphasis is on the period from post WWII to present.

**AFR 3220 Air Force Management and Leadership I (3) US AFR**
CR: 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 Management and Leadership
II (3) US AFR
CR: 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 I (3) US AFR
CR: AFR 2001
Examines national sec proc, regional study, adv
leadership ethics, AF doctrine with concentration
on military as profession.
communication/officership/mil justice/civil control
of mil/prep for active duty, current issues affecting
military professionalism.

AFR 4211 National Security Affairs & Preparation
for Active Duty II (3) US AFR
CR: AFR 2001
Cont study national sec proc, reg study, adv
leader ethics, & AF doct. Spec topics include reg
stud Europe, Mid East, Russia (former Soviet
Republics), perform feedback, effective
performance report writing, enl/off eval sys, ops
risk mngmt to prep students for active duty.

AFS 2250 Culture and Society in Africa 6AC (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 3251 Environmental - Cultural Study in Africa
(3) AS AFA
PR: AFS 2250
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 the environment.

AFS 4910 Individual Research (1-3) AS AFA
PR: 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 CAHU HHCP (3) AS
HTY
This class is an introductory survey of American
history from Columbus and "First Contact" to
Reconstruction.

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

AMH 3110 American Colonial History to 1750 (3)
AS HTY
A study of the evolution of American society from
the Age of Reconnaissance to 1750. Attention is
given to the transformation from colonies to
provinces with emphasis on ethnocultural conflict,
religion, labor systems, and political culture.

AMH 3130 The American Revolutionary Era (3) AS
HTY
Emphasis on the causes of the American
revolution, the nature of Constitution-making, and
the establishment of the federal system. Also
examines the significance of loyalism, violence,
and slavery in American society from 1750-1789.

AMH 3140 The Age of Jefferson (3) 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 ethno-
cultural conflicts.

AMH 3160 The Age of Jackson (3) AS HTY
The United States from 1828-1850, with emphasis
on social and political conflict. Consideration of
evangelicalism, reform, labor movements,
urbanization, and political activity in the
antebellum era.

AMH 3170 The Civil War and Reconstruction (3)
AS HTY
An examination of political, social, and economic
climate of the 1850'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, 1877-1914 (3) 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,
feminism, race relations and imperialism.

AMH 3231 The United States, 1914-1945 (3) 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 (3) 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 3342 Globalization and U.S. Culture (3) AS HTY**
This course examines how the U.S. has influenced global culture, food, technology, economic practices, and political ideas, but also how global processes and trends have, in turn, shaped U.S. culture and society. The focus is from 1776-present.

**AMH 3390 19th Century America History (3) AS HTY**
A comprehensive history of society, culture, and politics in the long nineteenth century, 1783-1914. Focuses on the development of liberalism, capitalism, democracy, imperialism, slavery, and religion.

**AMH 3402 Southern History, 1607-1865 (3) AS HTY**
The history of the U.S. South from European exploration to the Civil War. Topics covered include: slavery, black culture and resistance, agrarianism, women and gender, honor culture, the pro-slavery argument, sectionalism, and the Civil War.

**AMH 3403 The South since 1865 (3) AS HTY**
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.

**AMH 3421 Early Florida (3) 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 (3) 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 (3) 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 3512 U.S. Foreign Relations (3) AS HTY**
U.S. relations with the world, 1776-present. Includes diplomatic, economic, cultural, and military relations. The course also examines immigration and other global influences on U.S. domestic history and analyzes changes in internationalist thought.

**AMH 3530 Immigration History (3) 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 3545 War and American Empire (3) AS HTY**
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Vietnam.

**AMH 3561 American Women I (3) 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 American Women II (3) 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 CAHU HHCP (3) AS AFA**
This course surveys the history of people of African descent in the U.S. from the beginning of the Atlantic Slave Trade to 1865. Major topics include the rise & fall of slavery, ethnic & racial identities, resistance, gender, culture, and community.

**AMH 3572 African American History since 1865 CAHU HHCP (3) AS AFA**
This course explores the history of African Americans since 1865. Major topics include the struggle for equality, class and gender dimensions of the Black freedom struggle, and the varied approaches in the fight against oppression and inequality.

**AMH 3630 American Environmental History (3) AS HTY**
History of the American Environment and the ways in which different cultural groups have perceived, used, managed and conserved ii, from Colonial times to present.

**AMH 4940 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 American Romanticism, 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.
### COURSE DESCRIPTIONS

**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 (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 WRIN 6AC (3) AS ENG**
A study of black 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 3630 U.S. Latino/Latina Literature in English (3) AS ENG**
PR: ENC 1101 and ENC 1102
This 3000-level literature course surveys American English literature by Latino/Latina writers (with Spanish American ancestry). Authors may include Piri Thomas, Sandra Cisneros, Esmeralda Santiago, Luis Valdés, Tomás Rivera, Oscar Hijuelos, etc.

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

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

**AML 4261 Literature of the South (3) AS ENG**
A study of the major writers of the Southern Renaissance, including writers such as Faulkner, Wolfe, Caldwell, Hellman, 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 Hawthorne, 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 4624 Black Women Writers 6AC (3) AS AFA**
Black women writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of African American women in context of a global community.

**AMS 2030 Introduction to American Studies CAHU HHCP (3) AS HCS**
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.

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

**AMS 2270 Twentieth-Century American Culture CAHU HHCP (3) AS HCS**
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 (1-3) AS HCS**
An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

**AMS 3001 American Culture 1880-1915 6AC (3) AS HCS**
Integration of major aspects of American life between the 1880s and World War I.

**AMS 3212 Nineteenth-century American Culture (3) AS HCS**
An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.

**AMS 3230 America During the 1920s and 1930s 6AC (3) AS HCS**
Course provides an interdisciplinary examination of American culture during the turbulent interwar years, 1919 through 1941. Students will examine how the arts, advertising, fashion, and social behavior registered changing cultural values.

**AMS 3250 American Culture, 1830-1860 6AC (3) AS HCS**
Examinations of the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

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

**AMS 3370 Southern Women: Myth and Reality WRIN 6AC (3) AS HCS**
This course will identify the myths surrounding Southern women, discern their sources and purposes, and contrast them with history.
AMS 3601 Material Culture and American Society (3) AS HCS
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

AMS 3605 Working Class Culture in America CPST (3) AS HCS
An interdisciplinary examination of the cultural identity of American working class families from WWII to present.

AMS 3615 Film & American Society WRIN 6AC (3) AS HCS
This course offers a broad introduction to American cinema history. Exploring the aesthetic and ideological consequences of a variety of genres and modes, it also asks how individual films engage historically specific socioeconomic and cultural context.

AMS 3700 Racism in American Society CASB (3) AS AFA
This course will help students understand the extent and causes of racism, anti-Semitism and prejudice in the U.S. They will learn how prejudice arises, the roots of racism, and its effects on society using lectures and videos.

AMS 3930 Selected Topics in American Studies (1-3) AS HCS
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4210 Regions of America (3) AS HCS
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies.

AMS 4305 Photography and American Society (3) AS HCS
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

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

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

AMS 4930 Selected Topics in American Studies (1-3) AS HCS
Offerings include the social implications of American painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.

AMS 4932 Topics in American Film (3) AS HCS
Topical course on American film genres and themes. Variable topics such as: series on a region, performer, subject, or period of time.

AMS 4935 Senior Seminar in American Studies CPST (3) AS HCS
PR: HUM 3804, HUM 4331 and AMS 4936
The American Studies Senior Seminar focuses on the writing of a substantial research paper. Topic varies.

AMS 4936 American Studies Pro-Seminar (3) AS HCS
PR: HUM 3804
A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the construction of a written argument. Topic varies.

AMS 4940 Internship in American Studies (1-3) AS HCS
A structured, out-of-class learning experience designed to provide first-hand, practical training in careers related to American Studies.

ANG 5395 Visual Anthropology (3) AS ANT
This class will examine the major dimensions of visual anthropology with an emphasis on the visual means of presenting anthropology to the discipline and general public. The course will focus on visual documentation and study of visual images.

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

ANG 5901 Directed Reading (1-4) AS ANT
Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.

ANG 5910 Individual Research (2-4) AS ANT
Individual guidance in selected research project.

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

ANT 2000 Introduction to Anthropology CASB SGES (3) AS ANT
The cross-cultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology, archaeology, linguistic anthropology, and cultural anthropology.

ANT 2410 Cultural Anthropology CAGC (3) AS ANT
Students are exposed to methods and concepts for cross cultural study of the world's peoples. Case studies demonstrate variations in human
COURSE DESCRIPTIONS

ANT 2464 Global Health from a Social Science Perspective CAGC (3) AS ANT
Using global health as a lens, this course will introduce students to critical interdisciplinary challenges that will shape the world in the future. It combines classroom and experiential learning while accessing the extraordinary resources of London.

ANT 2511 Biological Anthropology CANL (3) AS ANT
CR: ANT 2511L
This is an overview of biological anthropology. It covers areas such as evolutionary theory and genetics (critical thinking and scientific process), human variation (diversity), and epidemiology (environment). It also has a historical component.

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

ANT 3005 The Anthropological Perspective (3) AS ANT
Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist's cross-cultural view of the human species as adapting through biosocial means to life on this planet.

ANT 3101 Archaeology CAGC HHCP (3) AS ANT
Focuses on critical thinking about the past, archaeological research. Methods, theory, web resources, and scientific analysis in the study of world prehistory, from human origins to modern times.

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

ANT 4012 Fantastic Archaeology (3) AS ANT
Mysteries including the Lost Continent of Atlantis, Ancient Astronauts, Piltdown Man, Psychic Archaeology, Noah’s Ark, and the Shroud of Turin will be examined, while emphasizing skills in critical thinking that have much wider practical applications.

ANT 4014 Anthropology of American Culture (3) AS ANT
PR: ANT 2410
This course examines American culture from an anthropological perspective. Various sources and methods will be used in formulating our portraits including readings, films, fieldwork, and personal experiences.

ANT 4034 Theories of Culture (3) AS ANT
The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

ANT 4142 Old World Archaeology (3) AS ANT
PR: ANT 3101
The archaeology of Europe, Asia and Africa, from the earliest humans through the emergence of state-level societies in many parts of the Old World. The course will focus on comparative aspects of economic, social, political, and religious organization in the prehistoric Near East, Egypt, China, the Aegean, Europe and Africa.

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

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

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

ANT 4158 Florida Archaeology (3) AS ANT
PR: ANT 3101
Culture history and culture process over 10,000 years from the time of the first people in Florida (Paleo-Indians) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4163 Mesoamerican Archaeology (3) AS ANT

COURSE DESCRIPTIONS

PR: ANT 3101
The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

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

ANT 4172 Historical Archaeology 6AC (3) AS ANT
PR: ANT 3101
A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to class work.

ANT 4180 Laboratory Methods in Archaeology (3) AS ANT
PR: ANT 3101
Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

ANT 4181 Museum Methods (3) AS ANT
PR: ANT 3101
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
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 isotope analysis. Laboratory sections provide hands-on experience with a variety of archaeological materials and analytical methods.

ANT 4185 Ancient Diets (3) AS ANT
PR: ANT 3101
Study of archaeological remains informing us about ancient diet, including fauna and flora, microscopic soil and ceramic residues, chemical analyses of human tissues, coprolites, gut contents, tooth wear patterns, visual/artistic and written information.

ANT 4241 Anthropology of Religion WRIN 6AC (3) AS ANT
PR: ANT 2000, ANT 2410
The cross-cultural study of the social and cultural aspects of religion will be explored. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners, and symbols of belief will be considered.

ANT 4243 The Middle East and North Africa (3) AS ANT
PR: ANT 2410
Studying the beliefs and practices of Middle Eastern and North African societies through the perspective and engagement with humanity that is anthropology. The focus is on different Islamic societies, and the effects on them of western influence.

ANT 4260 Ancient Trade (3) AS ANT
PR: ANT 3101
This course focuses on long-distance trade and contact in ancient times, based on archaeological evidence and scientific studies, and how this informs us about sociopolitical systems and economic relations and how they vary over time and space.

ANT 4285 Oral History (3) AS ANT
PR: ANT 2410
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 CPST HHCP 3 (3) AS ANT
PR: an anthropology or a women's studies class
Examines roles of women, men, other genders and social, economic, and political aspects of sex and gender, from a biocultural, 4-field anthropological perspective, emphasizing non-Western societies and cross-cultural comparison in past and present.

ANT 4312 North American Indians (3) AS ANT
PR: ANT 2410
An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological 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
Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

ANT 4323 Mexico and Central America (3) AS ANT
PR: ANT 2410
Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

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

ANT 4390 Visual Anthropology (3) AS ANT
PR: ANT 2410
The study 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.

ANT 4401 Exploring Cross-Cultural Diversity CPST (3) AS ANT
This course will address a variety of challenging issues related to the general topic of cross-cultural diversity in contemporary American life.

ANT 4403 Environmental Anthropology (3) AS ANT
PR: ANT 2410
Explores cultural, social, political, and economic dimensions of contemporary environmental problems. Emphasis placed on the links between local-level environmental degradation and broader regional and global forces.

ANT 4432 The Individual and Culture 6AC (3) AS ANT
PR: ANT 2410
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
The cross-cultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

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

ANT 4465 The Anthropology of Food (3) AS ANT
PR: ANT 2000 or ANT 2410
Examines the ways that anthropologists write and think about food, beginning with the basic anthropological perspective on food, then looking at food as a part of social rules and the life passage.

ANT 4472 Work and Migration in the Americas (3) AS ANT
PR: ANT 2410
With a focus on the intersections of class, race, gender, and citizenship, this course examines experiences of work and migration in the Americas to better understand the consequences of globalization.

ANT 4475 Anthropology of Childhood (3) AS ANT
This course is an exploration of the emerging subfield of anthropology and childhood, engaging with literature on children, childhoods, and youth around the globe. Students read a wide variety of perspectives on anthropology and childhood.

ANT 4495 Methods in Cultural Research (3) AS ANT
The stages in the development and execution of ethnological 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 4516 Human Variation (3) AS ANT
PR: ANT 2511
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 4520C Forensic Anthropology (4) AS ANT
PR: ANT 2511
This course is designed to familiarize students with forensic anthropology through lectures and lab work. Students will learn human skeletal biology for personal identification and cause of death. This course is restricted to majors and is not repeatable.

ANT 4525 Human Osteology and Osteometry (3) AS ANT
PR: ANT 2511 and ANT 2511L
The identification of human skeletal remains, including: instrumentation and procedures; techniques for determining age at death, sex, and ancestry; and measurement of the human skeleton for comparative purposes.
ANT 4532 Anthropology of Infectious and Contagious Diseases (3) AS ANT
PR: ANT 2410
CR: ANT 2511
This course is on communicable diseases and their transmission, cures, and change with time and technology. We will situate infectious and contagious diseases in their historical and cultural context by looking at the anthropology of these ideas.

ANT 4536 Bioarchaeology (3) AS ANT
PR: ANT 2511 and ANT 2511L
The study of human skeletal remains from archaeological sites, drawing on techniques from archaeology, anatomy, biology, chemistry, pathology, demography, and history to reconstruct individual lives and collective population histories across the globe.

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

ANT 4593 Evolution and Health (3) AS ANT
PR: ANT 2511
Using an evolutionary framework to develop scientific hypotheses, this course inquires into the origins and causes of illness. Students will use a variety of critical methods to track down evolutionary explanations for disease.

ANT 4620 Language and Culture 6AC (3) AS ANT
PR: ANT 3610
Examines the relationships between language and culture in cross-cultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

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

ANT 4750 Language and Social Interaction 6AC (3) AS ANT
PR: ANT 3610
Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the cross-cultural description and analysis of patterns of communication in ethnographic contexts.

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

ANT 4901 Directed Reading (1-4) AS ANT
Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 4905 Individual Research (2-4) AS ANT
Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 Special Topics in Anthropology (1-3) AS ANT
PR: Variable depending on topic
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ANT 4932 Honors Seminar (3) AS ANT
Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.

ANT 4935 Rethinking Anthropology 6AC (3) AS ANT
This course is the senior seminar in anthropology. The objectives are to reflect upon and integrate major material covered in previous courses, to reflect upon the status on the discipline of anthropology, and to allow students to determine where they see themselves within the discipline. We will reflect upon the four fields of anthropology and ethics, as well as key issues such as evolution, race, and culture, and students are encouraged to integrate their knowledge from previous classes.

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

ANT 4970 Honors Thesis (3) AS ANT
PR: ANT 4932
The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology.

APK 3110 Exercise Physiology I (3) MD ATH
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.

APK 3120 Exercise Physiology (3) ED EDP
This course is designed to explore physiological adjustments and adaptations that occur as the result of exercise. The main focus will be on exercise-induced changes in the metabolic,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ARC 2211</td>
<td>Introduction to Architecture CAHU</td>
<td>3</td>
<td>ARC</td>
<td>An introduction to fundamental &quot;critical thinking&quot; and graphic communication skills in architecture.</td>
</tr>
<tr>
<td>ARC 2135C</td>
<td>Introduction to Architectural Design &amp; Graphics II (4)</td>
<td>4</td>
<td>ARC</td>
<td>This course explores fundamental issues of space-making and perception of space, scale and habitation. In addition, this course builds on the skills and knowledge developed in the first introductory course through analysis and interpretation of specific works.</td>
</tr>
<tr>
<td>ARA 1121 Modern Arabic II (4) AS WLE</td>
<td>A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.</td>
<td>4</td>
<td>ARA</td>
<td>An intensive study of basic skills: pronunciation, listening comprehension, speaking and composition.</td>
</tr>
<tr>
<td>ARA 1120 Modern Arabic I (4) AS WLE</td>
<td>An introductory course through analysis and perception of space, scale and habitation. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Justification</td>
<td>4</td>
<td>ARA</td>
<td>An introduction to fundamental &quot;critical thinking&quot; and graphic communication skills in architecture.</td>
</tr>
<tr>
<td>ARA 2220 Modern Arabic III (4) AS WLE</td>
<td>PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.</td>
<td>4</td>
<td>ARA</td>
<td>An introduction to the analysis and interpretation of specific works.</td>
</tr>
<tr>
<td>ARA 2221 Modern Arabic IV (4) AS WLE</td>
<td>PR: ARA 2220 or the equivalent. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.</td>
<td>4</td>
<td>ARA</td>
<td>An introduction to the analysis and interpretation of specific works.</td>
</tr>
<tr>
<td>APK 4136</td>
<td>Exercise Prescription for Strength &amp; Conditioning (3)</td>
<td>3</td>
<td>APK</td>
<td>Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Justification</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

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roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.

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

ARC 5361 Core Design I (9) FA ARC
First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

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

ARC 5363 Core Design III (6) FA ARC
PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731
CR: ARC 5689
Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.

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

ARC 5365 Advanced Design B (6) FA ARC
PR: ARC 5363
CPR: ARC 5588, ARC 5467.
Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.

ARC 5366 Advanced Design C (6) FA ARC
PR: ARC 5363
CPR: 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 (3) FA ARC
PR: ARC 5470
Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.

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

ARC 5588 Structures II (3) FA ARC
PR: ARC 5587
Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction.
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PRE: ARC 5467 and ARC 5470
Comprehensive overview of mechanical systems for buildings including: water and waste: fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.

ARC 5619 Environmental Technology (3) FA 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 5731 Architectural History I (3) FA 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 5732 Architectural History II (3) FA 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 5759 Modern Architecture History (3) FA ARC
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) FA ARC
Summer study abroad. Location and description varies from year to year.

ARC 5794 Florida Architectural History (3) FA 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) FA ARC
Summer study abroad. Location and description varies from year to year.

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

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

ARH 2000 Art and Culture CAHU HHCP (3) FA ART
Survey of World Art to AD 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.

ARH 2051 History of Visual Arts II CAHU HHCP (3) FA ART
Survey of World Art since 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.

ARH 2050 History of Visual Arts I CAHU HHCP (3) FA ART
Survey of World Art to AD 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.

ARH 3001 Introduction To Art CAFA HHCP (3) FA ART
This online course investigates the histories of art, asking a range of questions about periods, cultures, styles of art making. We explore the experience of viewing art, inquiring into its many forms and definitions, historically and in the present.

ARH 4115 Ancient Egyptian and Near Eastern Art (3) FA ART
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 (3) FA ART
A comprehensive study of ancient Greek sculpture, painting, architecture, and other artistic media from the Bronze Age through the Hellenistic period.

ARH 4151 Roman Art (3) FA ART
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 (3) FA ART
A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

ARH 4200 Medieval Art (3) FA ART
A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

ARH 4301 Renaissance Art (3) FA ART
A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.

ARH 4310 Early Italian Renaissance (3) FA ART
PR: ARH 2050 or ARH 2051
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ARH 4312 Late Italian Renaissance (3) FA ART
PR: ARH 2050 or ARH 2051
This course focuses on the visual arts of Italy of the later Renaissance, from c. 1490 to 1576, with some reference to the broader context of art in the rest of Europe and the world.

ARH 4318 Venetian Art (3) FA ART
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 4333 Northern Renaissance Art (3) FA ART
PR: ARH 2050 or ARH 2051
Introduction to the history of Northern Renaissance Art, that is, art from northern Europe, esp. the Netherlands, Germany and France, from the late Middle Ages to the early modern era (14th through 16th centuries).

ARH 4350 Baroque and Rococo Art (3) FA ART
A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

ARH 4430 Nineteenth Century Art (3) FA 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 (3) FA 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 (3) FA ART
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, rebellion, and other forms of political struggle in 20th Century art and film.

ARH 4475C Contemporary Issues in Art (3) FA ART
PR: ARH 4450
A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

ARH 4520 African Art (3) FA ART
A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolism and meanings.

ARH 4530 Asian Art (3) FA ART
An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

ARH 4557 Chinese Art (3) FA ART
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 WRIN HHCP 6AC (3) FA 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 6AC (3) FA 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 4744 Selected Topics In The History of Film (3) FA 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 6AC (3) FA ART
PR: Two advanced Art Histories
Specific subject matter varies. To be announced at each course offering.

ARH 4890 Paris Art History (3) FA ART
PR: Minimum 8 hours of art history at the undergraduate level or equivalent.
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 (1-3) FA ART
Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

ARH 5451 Cultural and Intellectual History of Modern Art (4) FA ART
A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.

ARH 5813 Methods of Art History (4) FA ART
This course introduces students to various methods which art historians have used to analyze the form and content of individual works.
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of art, and to various modes of historical explanation.

ARH 5836 Collection and Exhibition Management
(3) FA ART
This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.

ART 2201C Concepts and Practices I CAFA (3) FA ART
Introduce students to diverse art studio practices and concepts where topics include forms of communication, sourcing inspiration, and critical theory. Studio projects are augmented by lecture, discussion, reading, writing and critical analysis.

ART 2203C Concepts and Practices II CAFA (3) FA ART
PR: ART 2201.
Continuation of ART 2201 building on diverse art studio practice and concepts including crafting an artistic self, measuring success, and examining the artists role. Art projects are augmented by lecture, discussion, reading, writing and critiques.

ART 2301C Beginning Drawing (3) FA ART
Projects exploring the methods, media, and concepts of drawing.

ART 2400C Beginning Printmaking (3) FA ART
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) FA ART
Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.

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

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

ART 2930 Selected Topics In Art (1-3) FA ART
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 3310C Intermediate Drawing (3) FA ART
PR: ART 2301C
An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

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

ART 3403C Intermediate Printmaking (3) FA ART
PR: ARH 2050, ARH 2051, ART 2301C, ART 2201C, ART 2203C, ART 3310C, ART 2400C.
This course concentrates on developing intermediate skills in printmaking with particular emphasis on conceptual topics The course is intended for majors. Repeatable up to 15 hours.

ART 3461C Selected Topics in Printmaking (3) FA ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2400C, ART 3401C
Selected Topics in Printmaking is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

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

ART 3513C Selected Topics in Painting (3) FA ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2400C, ART 3530C.
Selected Topics in Painting is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

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

ART 3610C Digital Modeling (3) FA ART
PR: ART 3612C.
Exploration of 3D digital modeling techniques for the creative arts. Provides study in the history, theory, and practices of 3D digital modeling. Students model, texture, and light models in a 3D environment. Restricted to majors and is not repeatable.

ART 3612C Beginning Video, Animation and Digital Arts (3) FA ART
An introductory exploration of the use of video, animation, and digital art as media for making contemporary art. Emphasis is on all levels of
production, concept development, and the history and theory of media, moving image, sound, and animation.

ART 3613C Live Action Filmmaking (3) FA ART
PR: ART 3612C.
Students develop a comprehensive understanding of Independent Cinema by producing short film projects. Topics include screenwriting, professional production tools and practices, and exhibition. Non-repeatable. For majors and non-majors with prerequisite.

ART 3616C 2D Animation (3) FA ART
PR: ART 3612C
Hands-on exploration of issues, principles, and practices involved in the creation of 2D animation. Traditional methods are combined with animation and imaging software. Focus is on individual creative growth.

ART 3635 Selected Topics in Video, Animation & Digital Arts (3) FA ART
Selected Topics in VADA is an intermediate course providing focused exploration on content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3709C Intermediate Sculpture (3) FA ART
This course expands upon the principles and processes introduced in Beginning Sculpture, developing a higher level of technical competence and critical sophistication. Repeatable up to 15 hours.

ART 3712C Multiples, Molds, and Bronzecasting (3) FA ART
PR: ART 2701C and ART 3704C
Continued problems in sculpture. Repeatable. Majors only. Repeatable up to 15 hours.

ART 3781C Selected Topics in Ceramics (3) FA ART
PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2750C, ART 3761C.
Selected Topics in Ceramics is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

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

ART 3939 RealWorld (3) FA ART
PR: ART 3838
Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.

ART 4320C Advanced Drawing (3) FA ART
PR: ART 3939, ARH 4450, ARH 4475C
Continued projects in drawing.

ART 4402C Advanced Printmaking (3) FA ART
PR: ART 3939, ARH 4450, ARH 4475C
This course is designed as an advanced printmaking studio and emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images.

ART 4520C Advanced Painting (3) FA ART
PR: ART 3939, ARH 4450, ARH 4475C
Continued projects in painting.

ART 4614C Advanced Video, Animation and Digital Arts (3) FA ART
PR: ART 3939, ARH 4450, ARH 4475C
Advanced exploration of issues and practices in the creation of experimental computer art. Continues an interdisciplinary approach to video, animation, 3D modeling and electronic arts with a focus on individual and group projects.

ART 4634C Visual Design for the Internet (3) FA ART
This upper level course builds upon the concepts students encountered in the introductory level graphic design courses and focuses upon web content creation and animation techniques.

ART 4710C Advanced Sculpture (3) FA ART
PR: ART 3939, ARH 4450, ARH 4475C
Continued problems in sculpture. Repeatable.

ART 4782C Advanced Ceramics (3) FA ART
PR: ART 3939, ARH 4450, ARH 4475C
Continued problems in ceramics.

ART 4806 Theme Studio (3) FA ART
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PR: All preparation courses plus course in Studio Workshop I.

ART 4814 Paris Art Studio (3) FA ART
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 emphasize imaginative encounters with its space, streets, museums, architecture and people.

ART 4900 Directed Reading (1-4) FA ART
A course of reading and study in an area of special concerned governed by student demand, instructor interest and/or department requirements. Registration is by contract only. Repeatable.

ART 4905 Directed Study (1-4) FA ART
Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. Repeatable.

ART 4925 Media Workshop: Design Production (3) FA ART
This upper level technology course will develop in-depth understanding of graphic software and print production techniques. Students will review software programs, file preparation requirements, and print production standards.

ART 4930 Selected Topics In Art (1-3) FA ART
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. Repeatable.

ART 4940 Extended Studies (1-4) FA ART
Extended Studies requires students to engage in art-related activities that expand upon their traditional academic experience. It is by contract and may involve internship and/or foreign studies. The course is restricted to majors. Not repeatable.

ART 4975 Directed Study (1-4) FA ART
This course will focus solely on developing language skills within ASL, which are preliminary steps for interpretation, and which also address the development of student’s ability to segment information and perform various cognitive tasks intralinguially.

ASH 2270 Southeast Asian History CAHU HHCP (3) AS HTY
This course examines the origins and development of Southeast Asian history over the past two millennia. Southeast Asia is comprised of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Singapore, Brunei, Indonesia, the Philippines, and East Timor.

ASH 3404 Modern China (3) AS HTY
Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950’s, and the Great Leap Forward.

ASL 2140C Basic American Sign Language (4) BC CSD
Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and 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.

ASL 2150C Intermediate American Sign Language (4) BC CSD
PR: ASL 2140C
A continuation of the basic course which expands the student’s signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.

ASL 3324 Advanced ASL Discourse (3) BC CSD
PR: INT 3270.
This course will focus solely on developing language skills within ASL, which are preliminary steps for interpretation, and will also address the development of student’s ability to segment information and perform various cognitive tasks intralinguially.

ASL 3514 American Deaf Culture (3) BC CSD
PR: ASL 4161C.
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.

ASL 4161C Advanced American Sign Language (3) BC CSD
PR: ASL 2150C
A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.

ASL 4201C American Sign Language 4 (3) BC CSD
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ASN 3201 East Asian Cinema (3) AS WLE
This survey course focuses primarily on recent masterpieces from Japan, mainland China, Hong Kong, Taiwan, and South Korea. We will look at directors, studios, genres, and film movements that leave a lasting mark on film history.

ASN 4414 Introduction to East Asian Cultures (3) AS WLE
This course introduces major texts that have contributed to the cultural foundations of Chinese, Japanese and Korean civilizations. We will examine the transformation of East Asian civilizations and their critical importance in the contemporary world.

AST 2002 Descriptive Astronomy CANP SGEN (3) AS PHY
An introductory and overview of astronomy course. It is designed to introduce a broad range of topics in astronomy that will be discussed in greater detail in more advanced classes.

AST 2004 Stellar Astronomy and Cosmology CANP (3) AS PHY
AST2004 is an introduction and overview of the Stellar astronomy and Cosmology. It is designed to complement AST2003 to give a comprehensive overview of the science of Astronomy.

AST 3033 Contemporary Thinking in Astronomy (3) AS PHY
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 space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 Archaeoastronomy (3) AS PHY
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 to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-Lab.

AST 3652 Navigation (3) AS PHY
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 (1-3) AS PHY
Course content will depend upon the interest of the faculty member and student demand.

ATR 1000 Introduction to Athletic Training (3) MD ATH
The purpose of this course is to familiarize students with the field of athletic training and the preparation necessary to become an athletic trainer.

ATR 2010C Care and Prevention of Physical Injuries (3) ED EDP
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

ATR 3102C Athletic Training Techniques (3) MD ATH
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Overview course including basic components of the athletic training profession including the prevention, recognition and evaluation and immediate care of athletic injuries. Medical terminology, emergency procedures, and taping procedures will be covered.

ATR 3123 Foundations of Athletic Training (3) MD ATH
PR: ATR 3213C, ATR 3102C.
Foundational topics in athletic training including anatomy review as it relates to diagnosis and treatment of athletic injuries. Other topic areas to include pharmacology, environmental issues and other current topics in athletic training. AT Majors only.

ATR 3132 Kinesiology and Pathomechanics (3) MD ATH
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.

ATR 3202 Measurement and Evaluation in Athletic Training (3) MD ATH
This course is an introduction to the study and practice of measurement and evaluation techniques used in the assessment and rehabilitation of orthopaedic injuries. AT majors only. Credit not repeatable.

ATR 3212C Upper Extremity Assessment (3) MD ATH
The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine.

ATR 3213C Lower Extremity Assessment (3) MD ATH
The study and practice of techniques used when assessing injuries to the lower extremity, hip, pelvis, low back and gait.

ATR 3512 Athletic Training Administration and Policy (3) MD ATH
Analysis and application of organizational skills and administrative structure of the athletic training profession, including current theory about budget management, medical record keeping, drug testing, facility design and maintenance, legal aspects of sports medicine, athletic physical examinations, medical ethics, current educational concepts, and administrative policy.

ATR 3513 Documentation in Athletic Training (1) MD ATH
CR: PET 3202
Designed to prepare athletic training students with an introduction to the foundation of appropriate terminology, documentation, and communication methods as they relate to athletic training and sports medicine. Majors only.

ATR 3812L Clinical Experience in Athletic Training I (3) MD ATH
PR: ATR 3822L
Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory and mid-level athletic training skills. Weekly seminar also required.

ATR 3822L Clinical Experience in Athletic Training II (3) MD ATH
PR: ATR 3102C
Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. A weekly seminar is also required.

ATR 4223 Advanced Athletic Training (3) MD ATH
PR: ATR 3212C and ATR 3213C
Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

ATR 4302C Therapeutic Modalities (3) MD ATH
This course provides an introduction to the theoretical and practical applications of modalities for the prevention, management and rehabilitation of physically active individuals. Concepts pertaining to the use of pharmacology, thermotherapy, cryotherapy, electrical stimulation, hydrotherapy, fluidotherapy, ultrasound, biofeedback and manual techniques will be emphasized.

ATR 4314C Therapeutic Rehabilitation (3) MD ATH
Theories and applications methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.

ATR 4432 General Medical Conditions in the Athlete (3) MD ATH
PR: ATR 3212C and ATR 3213C
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.

ATR 4504 Seminar in Sports Medicine WRIN 6AC (3) MD ATH
PR: ATR 4432.
The advanced study, writing, reflection and discussion of current athletic training issues. Emphasis is on professional preparation, scientific inquiry, credentialing, governance, employment practices, ethics, and scope of practice issues.

ATR 4832L Clinical Experience in Athletic Training III (3) MD ATH
PR: ATR 3822L
Performance of mid-level athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in mid-level and advanced athletic training skills. Weekly seminar also required.

ATR 4842L Clinical Experience in Athletic Training IV (3) MD ATH
PR: ATR 4832L
Continuation of clinical experience utilizing new skills under the direction of an NATABOC
ATR 5308C Therapeutic Interventions III (1) MD
ATR 5307C Therapeutic Interventions II (4) MD
ATR 5306C Therapeutic Interventions I (4) MD
ATR 5218C Physical Examination II (4) MD ATH
ATR 5217C Physical Examination I (4) MD ATH
ATR 5125 Anatomical Basis of Clinical Practice (3) MD
ATR 5105C Athletic Training Techniques (3) MD

This course will provide an overview of manual therapy techniques, including myofacial release, joint mobilization, and traction as they are incorporated into a therapeutic rehabilitation program.

ATR 5319 Rehabilitation Considerations for Children (3) MD ATH
Addresses the principles of rehabilitation for children. This course will entail advanced anatomical, physiological and psychological aspects of sports injury in the youth population.

ATR 5346C Health and Wellness Promotion Across the Lifespan I (3) MD ATH
Integrates physiological, psychological, and social understanding of humans in relationship to physical activity as a lifelong pursuit. Includes physical fitness, nutrition, stress reduction, socialization, and individual differences in human behavior.

ATR 5347C Health and Wellness Promotion Across the Lifespan II (1) MD ATH
Techniques in conducting health fitness tests and exercise prescription including cardiorespiratory fitness, flexibility, weight control and nutrition as it relates to a healthy lifestyle.

ATR 5348C Health and Wellness Promotion Across the Lifespan III (1) MD ATH
This course will introduce concepts of neuromuscular system training, specifically addressing sport specific strength training, exercise selection, and physiological needs analysis.

ATR 5435 Medical Conditions (3) MD ATH
Pathology, physical examination, referral and treatment related to non-orthopedic conditions in the active population. Specific diagnostic tests and physical examination procedures will also be addressed.

ATR 5508 Contemporary Issues in Athletic Training (3) MD ATH
Takes a unique look at the current issues facing the profession of athletic training. Historical perspectives, current implications, and futuristic opportunities and threats are discussed.

ATR 5515 Administration of Injury Prevention Programs (3) MD ATH
Discusses the development and implementation of injury prevention programs for youth sports. Issues such as research, budgeting, marketing, and measuring effectiveness are identified.

ATR 5534 Documentation in Athletic Training (1) MD ATH
CR: ATR 3202
Documentation in Athletic Training is designed to prepare athletic training students with an introduction to the foundation of appropriate terminology, documentation, and communication methods as they relate athletic training and sports medicine.

ATR 5605 Youth Injury Epidemiology (3) MD ATH
Key issues in epidemiology, injury etiology, risk factors related to both internal and external variables, and the efficacy and effectiveness of
preventive measures in regard to youth sport injury will be analyzed and discussed.

**ATR 5612 Evidence Based Medicine in Athletic Training (2) MD ATH**
This class will introduce the concept of evidence-based medicine and provide the student with information on how evidence-based medicine can affect the clinical practice of athletic training and enhance the care given to patients.

**ATR 5815 Clinical Experience in Athletic Training - I (3) MD ATH**
Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. Focus on equipment intensive sports. A weekly seminar is also required.

**ATR 5825 Clinical Experience in Athletic Training - II (3) MD ATH**
Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory and mid-level athletic training skills. Weekly seminar is also required.

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

**BCH 3053 General Biochemistry (3) AS CHM**
PR: CHM 2211 and BSC 2010
This course is a one-semester, introductory course in Biochemistry. This course is open to all majors and strongly recommended for Biomedical Science majors. This course is not repeatable for credit.

**BCH 4033 Advanced Biochemistry I (3) AS CHM**
PR: CHM 2211 and BSC 2010
Introduction to the chemistry and intermediary metabolism of biologically important substances.

**BCH 4034 Advanced Biochemistry II (3) AS CHM**
PR: BCH 3023
An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, antibodies, and contraction.

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

**BCH 5105 Biochemistry Laboratory Rotations (1-3) AS CHM**
A 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 4100 Biomedical Engineering (3) EN ECH**
CR: Calculus 1
CPR: Chemistry 1
An overview of biomedical engineering, including material and energy balances on human subjects, biomechanics, biomaterials, cellular and tissue engineering, bioemical imaging, neuroengineering, cardiovascular systems, engineering ethics and product dev.

**BME 4332 Cell and Tissue Engineering (3) EN EGR**
PR: EGN 3343 and EGN 3365 or EMA 4003
Engineering principles and molecular cell biology are applied to develop a fundamental understanding of property-function relationships in cells and tissues and exploit them in the rational design of tissue replacements.

**BME 4406 Engineering of Biological Systems (3) EN ECH**
PR: CHM 2210
This course is designed to convey the basics of biological systems and the roles that engineers play in industrial biology to engineering students (primarily) and to students that are majoring in other sciences. Not repeatable for credit. For majors and non-majors.

**BME 4440 Introduction to Bioastronautics (3) EN EGR**
PR: EGN 3343
This course will discuss the space environment, impacts of microgravity on human physiology, countermeasures, human factors in spacesuit and spacecraft design, astronaut training, life support systems, mission planning, and private space flight.

**BME 5040 Pharmaceutical Engineering (2) EN ECH**
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 5320 Theory and Design of Bioprocesses (3) EN ECH**
Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.

**BME 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH**
Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.

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

**BME 5937 Selected Topics in Biomedical Engineering (1-3) EN ECH**
## COURSE DESCRIPTIONS

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BOT 3152C</td>
<td>Field Botany (3) AS BIN</td>
<td>A field course emphasizing identification and classification of native and naturalized flowering plants of Florida including historical, climatic, and floristic aspects of plant communities. Fieldwork required. Lecture and Laboratory.</td>
</tr>
<tr>
<td>BMS 4406</td>
<td>Principles of Human Pharmacology (3) MD MSG</td>
<td>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 modifying biologic processes.</td>
</tr>
<tr>
<td>BMS 5005</td>
<td>Professions of Medicine: Foundations of Doctoring (1-19) MD MSG</td>
<td>This three-week course placed at the beginning of the medical school curriculum will introduce the students to principles that will be used through the entire medical school education and beyond. Basic scientists and clinicians present information in an integrated approach. Topical areas include: use of information resources (library/computer), the medical article, intro to evidence based medicine, effective study techniques, intro to the physical exam, cultural diversity, ethics and professionalism, and state of the art presentation. The course will use both large and small group learning techniques and students will demonstrate achievement of knowledge.</td>
</tr>
<tr>
<td>BMS 5190</td>
<td>Anatomy by Diagnostic Testing (1-20) MD MSG</td>
<td>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 organ and its vasculature 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 ultrasound scans of body organs will be displayed.</td>
</tr>
<tr>
<td>BOT 3373C</td>
<td>Vascular Plants: Form and Function (4) AS BIN</td>
<td>Introduction to morphology, physiology and evolution of vascular plants, integrating form and function to understand diversity. Lecture and Laboratory.</td>
</tr>
<tr>
<td>BOT 3850</td>
<td>Medical Botany (3) AS BCM</td>
<td>Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lecture only.</td>
</tr>
<tr>
<td>BOT 4434C</td>
<td>Mycology (3) AS BCM</td>
<td>A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab.</td>
</tr>
<tr>
<td>BOT 4601</td>
<td>Plant Ecology (3) AS BIN</td>
<td>This three-week course placed at the beginning of the medical school curriculum will introduce the students to principles that will be used through the entire medical school education and beyond. Basic scientists and clinicians present information in an integrated approach. Topical areas include: use of information resources (library/computer), the medical article, intro to evidence based medicine, effective study techniques, intro to the physical exam, cultural diversity, ethics and professionalism, and state of the art presentation. The course will use both large and small group learning techniques and students will demonstrate achievement of knowledge.</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>Biological Principles for Non Majors CANL SGEN (3) AS BIN</td>
<td>Study of the uses of plants by man for food, chemicals, fibers, and medicines.</td>
</tr>
<tr>
<td>BSC 1020</td>
<td>The Biology of Humans CANL (3) AS BCM</td>
<td>This non-science majors course deals with the principles and applications of human biology. Topics include: scientific literacy, cell structure and...</td>
</tr>
</tbody>
</table>
function, anatomy and physiology, genetics, infectious diseases, and biotechnology.

**BSC 2010 Cellular Processes** CANL SGEN (3) AS BCM  
CR: BSC 2010L.  
This course deals with biological systems at the cellular and subcellular levels. Topics include an introduction to biochemistry, cell structure and function, enzymes, respiration, mitosis and meiosis, genetics and gene expression.

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

**BSC 2011 Biodiversity** CANL (3) AS BIN  
CR: BSC 2011L  
Biodiversity is an analysis of biological systems at the organismal level: evolution, speciation, history of life, and ecology.

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

**BSC 2025 Food: Personal and Global Perspectives** (3) AS BIN  
The application of basic biological principles to human nutritional problems; to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition.

**BSC 2035 Sex and Today’s World** (3) AS BIN  
The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. May be taken by majors for free elective credit.

**BSC 2050 Environment** CANL (3) AS BIN  
A comprehensive introduction to the environment, including the scientific basis of ecology, population growth, community and ecosystem ecology, biodiversity, resource use and availability, energy production, water, air and land pollution.

**BSC 2085 Anatomy and Physiology I for Health Professionals** CANL SGEN (3) NR NUR  
CR: BSC 2085L.  
Introduction to the normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.

**BSC 2085L Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals** (1) NR NUR  
CR: BSC 2085.  
Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology I for Health Professionals.

**BSC 2086 Anatomy and Physiology II for Nursing and other Healthcare Professionals** CANL (3) NR NUR  
CR: BSC 2086L.  
Introduction of normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.

**BSC 2086L Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals** (1) NR NUR  
CR: BSC 2086.  
Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology II for Health Professionals.

**BSC 2093C Human Anatomy and Physiology I** (4) AS BIN  
PR: BSC 2093C.  
The course will begin to familiarize students with the process of conducting scientific research.

**BSC 2932 Selected Topics in Biology** (1-3) AS BIN  
The course content will depend on student demand and instructor's interest.

**BSC 2933 Honors Seminar II: Philosophy And Ethics Of Science** (3) AS BIN  
PR: BSC 2933.  
The course will begin to familiarize students with the process of conducting scientific research.
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Honors students to various research fields and current research in the Department. Faculty members present research seminars and discuss their work.

BSC 3022 Biology of Aging (3) AS BCM
PR: BSC 1005 or BSC 1020 and BSC 2085 or BSC 2093C.
An overview of cellular and molecular aspects of the aging process in human systems will be explored through lecture, discussion and virtual formats. For non-majors.

BSC 3312 Marine Biology (3) AS BIN
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.
A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Lecture only.

BSC 3813 Life Science Fundamentals for Teachers (4) AS BIN
PR: Six hours of science to include three hours of physical science and three hours of life science.
This course is designed to further develop science teachers' understanding of the life sciences commonly found in 6-9 school curricula, with a focus on effective research based life sciences pedagogy.

BSC 4057 Environmental Issues (3) AS BIN
Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems.

BSC 4313C Advanced Marine Biology (4) AS BIN
PR: BSC 3312C
A detailed analysis of marine environment in the Tampa Bay or surrounding area. Field and laboratory work will provide direct experience with the system.

BSC 4333 Ecology Of Aquatic Vascular Plants (3) AS BIN
PR: BSC 2010/C- OR BSC 2011/C- OR BOT 3015C/C-
A study of aquatic vascular plants, biological adaptations to aquatic environments, factors influencing community composition, how they influence and are influenced by their habitats; includes a survey of key vascular plant in a wide range of communities.

BSC 4434 Bioinformatics (3) AS BCM
PR: PCB3063.
CPR: PCB3023
This lecture-based, nonrestrictive course covers basics of molecular bioscience data management/analysis. Focus is on general computational methods, their bio-basis, and how to evaluate analysis results. Qualitative algorithm descriptions are included.

BSC 4444L Genomics Laboratory (1) AS BIN
Laboratory exercises linked to the Genomics lecture course.

BSC 4905 Independent Study (1-3) AS BIN
Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study.

BSC 4910 Undergraduate Research (1-4) AS BIN
PR: CHM 2210 and MAC 1105 or higher MAC course or STA 2023
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.

BSC 4932 Honors Seminar IV (1) AS BIO
PR: BSC 2934 and BSC 4910 or MCB 4910;
CPR: CHM 2211.
The course serves as a formal introduction to the presentation of scientific research. It is taken in the semester prior to completion of a student's own research project and the writing of the Biology Honors Thesis.

BSC 4933 Selected Topics In Biology (1-4) AS BIN
The course content will depend on student demand and instructor's interest.

BSC 4937 Seminar in Marine Biology (2) AS BIN
PR: BSC 3312C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
Course focuses on developing the student's understanding of contemporary research in the field of Marine. Background information presented and assigned reading will vary according to instructor.

BSC 4940 Biology Internship (3) AS BIN
PR: BSC 2010/C- OR BSC 2011/C-
A course to oversee and guide students internship experience. Internship will be coordinated with a mentor external to the course. Students will meet to discuss internship experiences and progress, and present results.

BSC 4970 Biology Honors Thesis (1-3) AS BIN
PR: BSC 2934 and either BSC 4931 or BSC 4932.
A thesis based on independent research carried out by the student.

BSC 5425 Genetic Engineering and Recombinant DNA Technology (3) AS BCM
PR: PCB3023, PCB3063, either PCB3023L or PCB3063L
This lecture-based course will use a problem solving approach, provide fundamental knowledge of scientific concepts and principles that form the basis of experimental methodologies in genetic engineering and recombinant DNA technology. For majors/nonmajors.

BSC 5931 Selected Topics in Biology (1-4) AS BIN

BUL 3320 Law And Business I (3) BA ACC
This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

**BUL 3321 Law And Business II (3) BA ACC**
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 ACC**
PR: BUL 3320
A comprehensive study of commercial law as it affects the practice of accounting.

**CAP 4034 Computer Animation Fundamentals (3) EN ESB**
PR: COP 3331
CPR: COP 4530
An introductory course to computer animation. Topics include storyboarding, camera control, hierarchical character modeling, inverse kinematics, keyframing, motion capture, dynamic simulation, and facial animation.

**CAP 4063 Web Application Design (3) EN ESB**
PR: COP 4530.
Analysis, design, and development of software that operates on web servers and web browsers, supporting multiple concurrent users.

**CAP 4401 Image Processing Fundamentals (3) EN ESB**
PR: COP 4530.
Practical introduction to a range of fundamental image processing algorithms. Extensive programming, with emphasis on image analysis and transformation techniques. Image transformation and manipulation.

**CAP 4410 Computer Vision (3) EN ESB**
PR: COP 4530.
Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, texture analysis, object recognition, and dynamic scene analysis.

**CAP 4662 Introduction to Robotics (3) EN ESB**
PR: COP 4530, EGN 4450
An introduction to the fundamentals of robotics. Students will learn the fundamentals of robotics including kinematics, inverse kinematics, Jacobian, velocity, configuration space, motion planning, and path planning algorithms.

**CAP 4800 Systems Simulation (3) EN ESB**
PR: COP 3331
CPR: COP 4530
An introduction to discrete-event simulation for performance modeling of computer systems. Topics include performance metrics, random number generation, workload generation, queuing theory, simulation languages, model design, and output analysis.

**CAP 5400 Digital Image Processing (3) EN ESB**
PR: COP 4530.
Image formation, sources of image degradation, image enhancement techniques, edge detection, operators and threshold selection, low-level processing algorithms for vision, image data compression.

**CAP 5625 Introduction to Artificial Intelligence (3) EN ESB**
PR: COP 4530.
Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

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

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

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

**CCE 5035 Construction Management & Planning (3) EN EGX**
PR: EGN 3613C
Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

**CCJ 3014 Crime and Justice in America CASB (3) BC CJP**
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 juvenile and adult offenders and victims of crime.

**CCJ 3024 Survey of the Criminal Justice System (3) BC 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 3117 Theories of Criminal Behavior (3) BC CJP**
PR: CCJ 3024
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Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3621 Patterns of Criminal Behavior (3) BC CJP
Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offense, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

CCJ 3701 Research Methods in Criminal Justice I (3) BC CJP
PR: a grade of C or better (a grade of C- is not acceptable) in CCJ 3117
Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 4224 Miscarriages of Justice (3) BC CJP
To provide a critical examination of the current functioning of the American criminal justice system and to discuss how procedures used by police, prosecutors, defense attorneys, judges, and corrections agents potentially produce miscarriages of justice.

CCJ 4361 Death Penalty (3) BC CJP
The primary purpose of this class is to provide a critical examination of capital punishment in the United States. It will also delve into the key dimensions of the death penalty debate and justifications for the death penalty and arguments for abolition.

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

CCJ 4604 Abnormal Behavior and Criminality (3) BC CJP
PR: CCJ 3117
A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4613 Forensic Psychology (3) BC CJP
An upper-level course designed to provide students with an overview of the interdisciplinary field of psychology and law. The course explores how the disciplines of psychology and law can benefit from an exchange of ideas, and thus improve both fields.

CCJ 4651 Drugs and Crime (3) BC CJP
The objective of this course is to provide the student a comprehensive understanding of the dynamics of drug use in American society.

CCJ 4662 Race and Crime (3) BC CJP
The course focuses on race (racial bias, racial inferiority, cultural norms and adaptations) and social class (structural deficiencies, economic deprivation, economic exploitation, social capital) as they relate to one another, crime and life in general.

CCJ 4681 Domestic Violence (3) BC CJP
This course is designed to examine the criminal justice systems response to domestic violence by focusing on the interactions between battered persons and the individual components of the criminal justice system.

CCJ 4690 Sex Offenders (3) BC CJP
This course is designed to cultivate a psychological, criminological, and legal understanding of sex crimes and sex offenders. This course will provide an overview of current theoretical and clinical issues related to sexual offenders and sexual offenses.

CCJ 4700 Statistical Research Methods in Criminal Justice II (3) BC CJP
PR: CCJ 3024 or CCJ 3117
Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF.

CCJ 4900 Directed Readings (1-3) BC CJP
PR: CCJ 3024, CCJ 3117, CCJ 3621
(a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course.(b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment.(c) First consideration will be given to Criminology majors.(d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program.

CCJ 4910 Directed Research (1-3) BC CJP
PR: CCJ 3024, CCJ 3117, CCJ 3621
(a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course.(b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment.(c) First consideration will be given to Criminology majors.(d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or
any combination of the two will be accepted toward the minimum number of hours required for the major. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice.

CCJ 4930 Critical Issues in Policing (3) BC CJP
PR: CCJ 3024 or CJE 4114
Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officers; substance abuse by police officers; and administrative review of alleged police brutality.

CCJ 4933 Selected Topics in Criminology (3) BC CJP
PR: CCJ 3024, CCJ 3621, CCJ 3117
Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with CI.

CCJ 4934 Seminar in Criminology CPST 6AC (3) BC CJP
PR: a grade of C or better (a grade of C is not acceptable) in CCJ 3701
These variable topic seminars are used for the in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.

CCJ 4940 Internship For Criminal Justice Majors (3) BC CJP
PR: CCJ 3024, CCJ 3117, CCJ 3621.
The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week during a fall or spring term, fifteen hours per week in summer, within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required.

CCJ 4970 Honors Thesis (3) BC CJP
PR: CCJ 4934 (honors section), CCJ 4910
The student, under the direction of a faculty member, will formalize, conduct, analyze, and report in writing a research project in the Department of Criminology. The course is not repeatable. Majors only.

CDA 3101 Computer Organization for Information Technology (3) EN ESB
PR: Any Physics course and CGS 3303
Elements of the computer are discussed in terms of the physical and conceptual design of memory, processors, busses and I/O elements. Organization 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: COP 2510 and PHY 2049
Introduction to computer hardware, logic elements and Boolean algebra, computer arithmetic, the central processing unit, assembly language programming, input/output, and memory.

CDA 3201 Computer Logic and Design (3) EN ESB
PR: CDA 3103 (grade of B or better) and COP 3514 (grade of B or better)
CR: CDA 3201L
CSE and EE majors. Others by special permission. Advanced coverage of Boolean Algebra, introduction to minimization of combinational logic circuits, analysis and synthesis of sequential circuits, testing of logic circuits and programmable logic devices.

CDA 3201L Computer Logic and Design Lab (1) EN ESB
CR: CDA 3201
Laboratory component of the Computer Logic and Design class.

CDA 4203 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 4203L 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 4205 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, ALU's and their implementation, control units, memory and I/O, and the hardware support of operation systems.

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

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

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

CDA 4621 Control of Mobile Robots (3) EN ESB
PR: CDA 3201.
Mobile Robotic Control Systems design and implementation. Includes microcontroller, sensor, and actuator control processes for localization and navigation. Team project development of software interface for robot control.

CDA 4623 Advanced Mobile Robotics for Information Technology (3) EN ESB
PR: CDA 4622
The course gives an overview of advanced mobile robotic systems covering aspects that include path planning and collision avoidance. Additional themes may vary such as collaboration and competition in multiple Physical or Simulated robots.

CDA 5416 Computer System Verification (3) EN ESB
PR: CDA 3201, COT 3100, COT 4400, COP 4530.
This course introduces basic concepts of formal verification. Topics include formal specification, algorithms, and methodologies for scalable verification. It is only for CSE majors or non-majors with permission from the instructor, not repeatable.

CEG 4011 Geotechnical Engineering I (3) EN EGX
PR: EGN 3353, EGN 3331.
Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

CEG 4011L Geotechnical/Transportation Laboratory (1) EN EGX
CR: CEG 4011.
Demonstrates and experiments verifying theoretical bases of Geotechnical and Transportation Engineering. One hour lecture and two laboratory hours per week.

CEG 4012 Geotechnical Engineering II (3) EN EGX
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 4850 Capstone Geotechnical/Transportation Design CPST (3) EN EGX
PR: CEG 4011, TTE 4004. CR: CEG 4012, CGN 4851, TTE 4005.
A capstone geotechnical/transportation design experience for seniors in Civil and Environmental Engineering. Design of embankment and pavement bases. Comprehensive surface streets, open highway intersection and site design, plan preparation.

CEG 5115 Foundation Engineering (3) EN EGX
PR: CEG 4011
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 EGX
PR: CEG 4011
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) EN ESB
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: COP 4530.
An overview of software engineering techniques for producing high quality software. Student will participate in a software development team.

CEN 4031 Software Engineering Concepts for Information Technology (3) EN ESB
PR: EEL 4854
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 team projects.

CEN 4072 Software Testing (3) EN ESB
PR: COP 2510, COP 4530.
The course provides the fundamental principles and tools for testing and validating large-scale software systems. The course is open to majors as well as non-majors.

CEN 4721 User Interface Design (3) EN ESB
PR: COP 4530.
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
PR: CES 3102.

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 4605 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 4704 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 4750 Capstone Structural/Geotechnical/Material Design CPST (3) EN EGX
PR: EGN 3365, CES 4605, CES 4702, CEG 4011 CPR: CGN 4851, CEG 4012 or TTE 4005.
A capstone structural/ geotechnical/ materials design experience for seniors in Civil and Environmental Engineering. Design of structures and foundations made of steel and reinforced concrete.

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 pilasters.

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 beams, theory of elasticity, criteria of failure, beams on elastic foundation.

CES 5715C Prestressed Concrete (3) EN EGX
PR: CES 3102, EGN 3353, EGN 3365
Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of pressures applications.

CGN 3021L 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 (1) EN EGX
PR: CES 3102, EGN 3321.
Behavior of structural components and systems when subjected to periodic dynamic loads.

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

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
Specialized independent study determined by the students’ needs and interests.

CGN 4933 Special Topics in Civil and Environmental Engineering (1-3) EN EGX
New technical topics of interest to civil engineering students.

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

CGS 1540 Introduction to Databases for Information Technology (3) EN ESB
An introduction to database concepts with topics including query languages, data organization, architecture, and data modeling. Emphasis on relational databases with SQL. Applications to Information Technology. Requires no programming experience.

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

CGS 2060 Introduction to Computers and Computer Programming CAQR 6AM (3) EN ESB
Introduction to computer programming using a modern high-level language and the application of computational methods to problem solving.
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Overview of computer systems and their application and role in society.

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

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

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

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

CGS 3303 IT Concepts (3) EN ESB
PR: CGS 1540
An introduction to the various facets of the field of Information Technology. Topics such as operating systems, networking, programming, hardware, and computation theory will be overviewed.

CGS 3845 Electronic Commerce (3) EN ESB
PR: COP 2510 or equivalent.
An overview of how E-Commerce evolved, what EC is; how it is being conducted and managed; its major opportunities, issues, and risks. Discussions include: The Internet, intranets, firewalls, etc. Exercises will use various Web and software and packages.

CGS 3853 IT Web Design (3) EN ESB
PR: COP 2510 or equivalent.
An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML, and how browsers show that code. The student will also learn to use web page development packages.

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

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

CHI 1955 Overseas Study in China (1-6) AS WLE
PR: CHI 1121, CHI 1121
Intensive study of Chinese language in China involving classroom instruction and cultural excursions conducted in Chinese. Must be enrolled in Tier I of the USF Chinese Learning in the Culture program in Qingdao. Students from other institutions eligible.

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

CHI 2221 Modern Chinese IV (4) AS WLE
PR: CHI 2220 or the equivalent.
Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

CHI 3241 Advanced Chinese Conversation I (3) AS WLE
PR: CHI 3241.
This is the first of a two-course sequence in advanced spoken Mandarin Chinese at the third-year level. Particular emphasis is placed on student performance in commonly encountered contexts in Chinese culture, both formal and informal.

CHI 3242 Advanced Chinese Conversation II (3) AS WLE
PR: CHI 3241.
This is the second of a two-course sequence in advanced spoken Mandarin Chinese at the third-year level. Particular emphasis is placed on student performance in commonly encountered contexts in Chinese culture, both formal and informal.

CHI 4443 Networking in China and America (3) AS WLE
PR: CHI 2221
Intensive study of Chinese language and culture at the upper division. Focus on interaction skills necessary to interact in business and professional settings.

CHI 4905 Directed Study (1-5) AS WLE
Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion.

CHI 4930 Special Topics (1-3) AS WLE
Varied topics.

CHM 2020 Chemistry for Liberal Studies I CANP
SGEN (3) AP GEP
This course is designed for liberal arts students to learn basic chemical principles. Students will learn about reactions, energy and the scientific method. The course will have an emphasis on the chemistry of global climate change.

CHM 2023 Chemistry for Today (3) AS CHM
PR: High school chemistry and mathematics including algebra are recommended.
An introduction to the principles and applications of modern chemistry including the properties of matter, structural view of matter and reactions, quantitative relations in chemical reactions, technological aspects and societal impact.
COURSE DESCRIPTIONS

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CHM 2032 Introduction to General, Organic, and Biochemistry I CANP (3) AS CHM
Fundamental concepts of general, organic, and biological chemistry.

CHM 2045 General Chemistry I CANP SGEN (3) AS CHM
PR: 550 SAT Quantitative score or completion of MAC 1105 College Algebra with a C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better.
Principles and applications of chemistry including properties of substances and reactions, thermochemistry, atomic-molecular structure and bonding, periodic properties of elements and compounds.

CHM 2045L General Chemistry I Laboratory (1) AS CHM
PR: CHM 2045.
Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

CHM 2046 General Chemistry II CANP (3) AS CHM
PR: CHM 2045 and CHM 2045L with a C or better or equivalent.
Principles and applications of chemistry including solutions, chemical thermodynamics, kinetics, equilibria, aqueous chemistry, electrochemistry, and nuclear chemistry.

CHM 2046L General Chemistry II Laboratory (1) AS CHM
PR: CHM 2045.
Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2210 Organic Chemistry I (3) AS CHM
PR: CHM 2046, CHM 2046L with a C or better.
Fundamental principles of organic chemistry. Lecture.

CHM 2210L Organic Chemistry Laboratory I (2) AS CHM
CPR: CHM 2200 or CHM 2210.

CHM 2211 Organic Chemistry II (3) AS CHM
PR: CHM 2210 with a C or better.
Continuation of organic chemistry.

CHM 2211L Organic Chemistry Laboratory II (2) AS CHM
PR: CHM 2210L
CR: CHM 2211.
Continuation of organic chemistry laboratory.

CHM 3120C Elementary Analytical Chemistry (4) AS CHM
PR: CHM 2046, CHM 2046L.
Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

CHM 3415C Physical Chemistry Methods (4) AS CHM
PR: CHM 2046 and MAC 2282 or MAC 2312 or MAC 2242
This class will familiarize chemistry majors with the analytical and numerical math of physical chemistry and the use of specialized software for symbolic and numerical math and visualization.

CHM 3610 Intermediate Inorganic Chemistry (3) AS CHM
PR: CHM 2046, CHM 2046L.
Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.

CHM 3610L Intermediate Inorganic Chemistry Laboratory (1) AS CHM
PR: Two semesters of general chemistry lecture and lab
CR: CHM 3610.
Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

CHM 3941 Peer Leading in Chemistry (3) AS CHM
CPR: CHM 2046
The purpose of this course is to prepare students for the role of peer leader. Peer leaders work with students enrolled in chemistry courses on a regular basis. The course involves coverage of chemistry concepts and training in pedagogical techniques.

CHM 4060 Use of Chemical Literature (1) AS CHM
PR: CHM 2045, CHM 2046, CHM 2210, CHM 2211.
Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4070 Historical Perspectives in Chemistry 6AC (3) AS CHM
PR: One year of college chemistry
A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

CHM 4130C Methods of Instrument Analysis II (4) AS CHM
PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410.
Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects. Lec.-lab.

CHM 4131C Methods of Chemical Investigation II (4) AS CHM
PR: CHM 4130C.
Continuation of CHM 4130C. Lec.-lab.

CHM 4230 Spectroscopic Analysis of Organic Compounds (3) AS CHM
PR: CHM 2211
The objective is to provide the student with a thorough understanding of the theory and use of spectroscopic techniques (MS, IR, UV-vis, and NMR,) and their use in identification of organic compounds from the spectroscopic data from techniques discussed.

CHM 4274 Introduction to Drug Discovery (3) AS CHM
PR: BSC 2010 and CHM 2211
This course explores the entire drug discovery process, from initial target identification and hit generation through lead optimization and clinical trials to FDA approval. Case studies will be used to illustrate the process.

CHM 4300 Biomolecules I (3) AS CHM
PR: CHM 2211.
Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems.

CHM 4307 BioOrganic Chemistry (3) AS CHM
PR: BCH 3023 or BCH 4033
Discussion of current research directions in the field of chemical biology.

CHM 4410 Physical Chemistry I (4) AS CHM
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.
Thermodynamics, the state of matter and solutions are presented. The course includes a recitation.

CHM 4410L Physical Chemistry Laboratory (1) AS CHM
PR: CHM 4410.
A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHM 4411 Physical Chemistry II (4) AS CHM
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.
Introduction to quantum mechanics and molecular spectroscopy. Chemical Kinetics and statistical mechanics are also presented. The course includes a recitation.

CHM 4413 Biophysical Chemistry (3) AS CHM
PR: CHM 2046, CHM 4410, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.
This course will cover spectroscopy, bonding and kinetics with emphasis placed on biological molecules and biochemical reactions.

CHM 4455 Chemistry of High Polymers (3) AS CHM
PR: CHM 2210
The purpose of this course is to prepare students for scientific careers in polymer science and technology or in related fields. The course involves coverage of chemistry concepts involving synthesis and characterization of polymeric materials.

CHM 4611 Advanced Inorganic Chemistry (3) AS CHM
PR: CHM 4410, CHM 2046, MAC 2242 or MAC 2282 or MAC 2312 and PHY 2054 or PHY 2049.
An advanced descriptive and theoretical treatment of inorganic compounds.

CHM 4905 Independent Study (1-3) AS CHM
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.

CHM 4932 Selected Topics in Chemistry (1-3) AS CHM
The course content will depend on the interest of faculty members and student demand.

CHM 4970 Undergraduate Research (1-3) AS CHM

CHM 5225 Intermediate Organic Chemistry I (3) AS CHM
PR: CHM 2211, CHM 2211L, or equivalent
This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHM 5226 Intermediate Organic Chemistry II (3)
PR: CHM 5225
An introduction to synthetic organic chemistry for graduate students and advanced undergraduates.

CHM 5452 Polymer Chemistry (3) AS CHM
PR: Either CHM 2211, CHM 2211L, or CHM 3400 or CHM 4410
Fundamentals of polymer synthesis, structure, properties, and characterization.

CHM 5621 Principles of Inorganic Chemistry (3)
PR: CHM 4411, CHM 4610
Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course.

CHM 5931 Selected Topics in Chemistry (1-3) AS CHM
The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

CHS 2440 General Chemistry for Engineers (3) AS CHM
PR: 550 SAT Quantitative score or completion of MAC 1105 College Algebra with a grade of C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better.
Introduction to important concepts and principles of chemistry with emphasis on areas considered most relevant in an engineering context.

CHS 2440L General Chemistry for Engineers Lab (1) AS CHM
CR: CHS 2440.
COURSE DESCRIPTIONS

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Laboratory portion of General Chemistry for Engineers. Introduction to laboratory techniques, study of properties of elements, synthesis and analysis of natural and commercial materials.

CHS 4300 Fundamentals of Clinical Chemistry (3)
AS CHM
PR: BCH 3023. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance.

CHS 4301L Clinical Laboratory (2) AS CHM
Lec.:Lab. Laboratory experience in some of the most important clinical determinations.

CHT 3110 Traditional Chinese Literature in Translation (3) AS WLE
This course is a general survey of traditional Chinese literature from the beginnings to the Qing Dynasty (1911). Major genres including philosophical texts, poetry, fiction, drama, and prose are explored in English translation.

CHT 3124 Modern Chinese Literature in Translation (3) AS WLE
An introductory survey of modern Chinese literature in translation. The course begins with the end of the Qing Dynasty (1644-1911) and extends into contemporary China. Taught in English and open to all majors. The course is not repeatable.

CHT 3500 Introduction to Chinese Culture (3) AS WLE
An introductory survey of Chinese cultural traditions with an emphasis on themes important to successful interaction in contemporary Chinese society. The language of instruction is English.

CHT 3512 Contemporary Chinese Language and Society (3) AS WLE
An introductory survey of modern Chinese language and society taught in English and open to all majors. Course activities revolve around developing an understanding of Chinese language and society in the Reform Era (1976-present).

CHT 3520 Chinese Film (3) AS WLE
A survey of Chinese film taught in English and open to all majors. This course traces the development of Chinese film and the Chinese film industry from its beginnings in the early 1900s through the contemporary period.

CIS 3360 Principles of Information Security (3) AS LIS

CIS 3362 Cryptography and Information Security (3) AS LIS
PR: MAD 2104 This course examines classical cryptography, entropy, stream and block ciphers, public key versus symmetric cryptography, one-way and trap-door functions, plus other specific tools and techniques in popular use.

CIS 3367 Architecting Operating System Security (3) AS LIS
PR: CIS 3360 This course examines tools and techniques for securing Windows and Linux operating systems. Students will acquire knowledge and skills to perform audit assessments and implement enterprise-wide operating system security.

CIS 3932 Special Topics for Information Technology (1-3) EN ESB
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

CIS 4250 Ethical Issues and Professional Conduct (3) EN ESB
A capstone course for Department majors only, this course introduces students to ethical issues arising in the computer sciences, through written analysis and oral presentations of technical situations which involve ethical conflicts.

CIS 4253 Ethics for Information Technology 6AC (3) EN ESB
This course will cover issues that arise from the world of online communication and its impact on our daily lives through education, processes, and information. Class discussions cover various technologies and issues that are shaping our society.

CIS 4361 Information Technology Security Management (3) EN ESB
An overview of information security management techniques and concerns is presented. Topics include: Access control systems, telecommunications and network security, security management practices, application and systems development security, cryptography, disaster recovery planning, legal and ethical issues, and physical security.

CIS 4364 Cryptology and Information Security (3) EN ESB
PR: CIS 3360 Covers the fundamentals of computer security. The following topics are addressed: Network Security, Cryptography, Access Control, Security Architecture and Models, Applications and Systems Development, Vulnerability Assessment.

CIS 4365 Computer Security Policies and Disaster Preparedness (3) EN ESB
PR: CIS 3360. When an organization's functioning is interrupted by disasters, accidents, or natural events, a loss of data and/or productivity may occur. The impact on the organization is determined by how prepared it is for dealing with these disruptions.

CIS 4412 Information Technology Resource Management (3) EN ESB
An overview of the information resource management function, with emphasis on...
COURSE DESCRIPTIONS

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information systems management, is covered. Topics include planning, organizing and controlling user services, managing information system development process, and the fundamentals of EDP auditing.

CIS 4510 I.T. Project Management (3) AS LIS
This course covers the general aspects of project management and emphasizes the important, special considerations which apply to information technology projects. Supporting software is used extensively.

CIS 4900 Independent Study in Computer Science (1-5) EN ESB
PR: COP 4530 and CDA 3201
Specialized independent study determined by the needs and interests of the student.

CIS 4910 Computer Science Project (2) EN ESB
PR: COP 4530
Offers a focused team-based design experience incorporating appropriate engineering standards and multiple realistic constraints. Projects are proposed by industry and/or other partners and are completed within a defined development process.

CIS 4915 Supervised Research in Computer Science (1-5) EN ESB
PR: COP 4530 and CDA 3201
Supervised research determined by the needs and interests of the student.

CIS 4930 Special Topics in Computer Science I (1-3) EN ESB
PR: COP 4530 and CDA 3201
Special topics in computer science and computer engineering.

CIS 4932 Special Topics for Information Technology (1-3) EN ESB
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

CIS 4935 Senior Project in Information Technology CPST (3-5) EN ESB
Capstone project for Information Technology majors. Requires students to design, implement, and deliver a complete IT solution leveraging discipline-specific, critical thinking, and communication skills they acquired in the BS in IT program.

CIS 4940 Industry Internship (0-6) EN ESB
PR: COP 4530 and CDA 3201
Individual study as practical computer science and/or computer engineering work under industrial supervision with a faculty approved outline and end-of-semester report.

CJC 4010 American Correctional Systems (3) BC CJP
PR: CCJ 3024 or CCJ 3117
Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

CJC 4166 Alternatives to Incarceration (3) BC CJP
PR: CCJ 3024 or CCJ 3117
This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.

CJE 4010 Juvenile Justice System (3) BC CJP
PR: CCJ 3024 or CCJ 3117
Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

CJE 4114 American Law Enforcement Systems (3) BC CJP
PR: CCJ 3024 or CCJ 3117
This course 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.

CJE 4610 Criminal Investigation (3) BC CJP
PR: CCJ 3024 or CCJ 3117
Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.

CJL 3110 Substantive Criminal Law (3) BC CJP
PR: CCJ 3024, CCJ 3117
Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.

CJL 4115 Environmental Law and Crime (3) BC CJP
PR: CCJ 3024
The course provides students with an introduction to issues in the area of environmental crime and environmental law.

CJL 4410 Criminal Rights and Procedures (3) BC CJP
PR: CCJ 3024
Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CLA 3103 Daily Life in Ancient Greece CAHU 6AC (3) AS WLE
This course surveys the major social, political, and cultural aspects of the ancient Greek world, examined both topically and chronologically across the centuries of the Ancient Greece, c. 1400 to 146 BCE.

CLA 3124 Daily Life in Ancient Rome CAHU (3) AS WLE
This course surveys the major social, political, and cultural aspects of the ancient Roman world, topically and chronologically, from 753 B.C.E to 476 CE, through the literary, historical, and artistic records of the Romans.

CLA 3435 The Hellenistic World (3) AS HCS
A comprehensive look at the Greek-speaking world after Alexander the Great, from Italy to India. Emphasis is on the social, intellectual and
aesthetic changes brought about by colliding cultures.

**CLA 3930 Selected Topics (3) AS WLE**
An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.

**CLA 4501 Women in Antiquity 6AC (3) AS WLE**
Women in Antiquity surveys the social, political, and cultural life of women in the ancient Mediterranean world, historically and thematically, through lecture, reading, video, and slide presentations.

**CLP 2001 Psychology of Adjustment (3) AS PSY**
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
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
Introduction to behavior 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
A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses.

**CLT 2044 Wordpower from Latin and Greek (3) AS WLE**
Study of Greek/Latin elements as a means of building English vocabulary. Examination of Greek/Latin-based terminology from various scientific fields, its adoption into English and current usage. Attention given to Greek/Latin stems, prefixes, suffixes.

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

**CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought WRIN 6AC (3) AS WLE**
This class investigates the most important texts of the Archaic and Classical Greek world, which are analyzed in both a chronological sequence (c. 700 to 399 BCE) and by genre (epic poetry, philosophy, lyric, history, and drama).

**CLT 3123 Voyages and Metamorphoses in Roman Imagination WRIN 6AC (3) AS WLE**
This course surveys the major literary texts of the ancient Roman world, examined through both the chronological order of their production (from the 3rd century B.C.E to the 2nd century C.E) and their classification into various literary genres.

**CLT 3370 Gods, Heroes, and Monsters in the Ancient World CAHU (3) AS WLE**
Classical Mythology surveys the myths, legends, and sagas of the Greeks and Romans chronologically (c. 1200 BCE to 17 CE) and thematically, through literature (prose and poetry), iconography (art and architecture), and film (documentary and dramatic.)

**CLT 3511 Fictional Rome in American Film (3) AS WLE**
Fictional Rome surveys filmic representations of ancient Rome in Hollywood, to illustrate the imaginative power of cinema to shape our perceptions of the Roman past, and exploitation of them in the context of contemporary American history and culture.

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

**CNT 4004 Computer Networks I (3) EN ESB**
PR: COP 3331
PR: COP 4530
CPR: COP 3331
CPR: COP 4530
This course surveys network security standards and emphasizes applications that are widely used on the Internet and for corporate networks. This course also examines Firewalls and related tools used to provide both network and perimeter security.

**CNT 4104 Computer Information Networks for Information Technology (3) EN ESB**
PR: COP 2000
CR: CNT 4104L
Introduction to the design and analysis of computer communication networks. Topics include application layer protocols, Internet protocols, network interfaces, local and wide area networks, wireless networks, bridging and routing, and current topics.

**CNT 4104L Computer Information Networks Laboratory for IT (1) EN ESB**
PR: COP 2000
CR: CNT 4104L
This lab provides a hand-on introduction to computer networking, including wide area networks (WANs), local area networks (LANs) and the protocols used to coordinate and control communications on them.

**CNT 4411 Computing and Network Security (3) EN ESB**
PR: CNT 4004
The course is a study of fundamental concepts and principles of computing and network security. The course covers basic security topics, including symmetric and public key cryptography, digital signatures, hash functions, and network security protocols.

**CNT 4504 Computer Networks II (3) EN ESB**
PR: CNT 4004
# COURSE DESCRIPTIONS

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

**COM 3051 Analyzing Culture and Media (3) AS SPE**
PR: SPC 2541. Applies theories of media and media industries to analysis of media texts to investigate relationships among culture, media, representation, and democracy. Majors only; non-majors by permit only. May not be repeated for credit.

**COM 3052 Cultural Studies and Communication (3) AS SPE**
PR: SPC 2541, COM 3051. Application of theories and methods of Cultural Studies to communication research. Emphasis on critical analysis of processes by which culture is produced, circulated, and negotiated. Majors only; nonmajors by permit only. May not be repeated for credit.

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

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

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

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

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

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

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

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

**COM 4030 Women and Communication WRIN 6AC (3) AS SPE**
Examines women's patterns of communication in a variety of contexts. Also offered under Women's Studies.

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

**COM 4054 Communication, Tourism, and Travel (3) AS SPE**
PR: COM 2000. Focuses on cultural, experiential, and performative practices and meanings of travel and tourism as sites of communication inquiry. Majors only; non-majors by permit. Not repeatable for credit.

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

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>PR:</th>
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<tbody>
<tr>
<td>COM 4128</td>
<td>Integrated Organizational Communication (3) AS SPE</td>
<td>3</td>
<td>COM 3120</td>
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<tr>
<td></td>
<td>Explores theories, practices, and functions of integrated communications</td>
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<td>strategies and tactics in organizational contexts. For Communication</td>
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<td>majors; non-majors by permit only. May not be repeated for credit.</td>
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<tr>
<td>COM 4151</td>
<td>Communication and Working Life in Cont Orgs (3) AS SPE</td>
<td>3</td>
<td>COM 3120</td>
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<td>Explores workers and organizations through socialization, self-presentation,</td>
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<td>technologies, identity issues, and work-family balance. Majors only;</td>
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<td>non-majors by permit. May not be repeated for credit.</td>
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<td>COM 4225</td>
<td>Global &amp; Cultural Issues in Health Communication (3) AS SPE</td>
<td>3</td>
<td>COM 4022</td>
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<td></td>
<td>Explores issues in global health, culture, and communication in health care</td>
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<td>initiatives. For majors; non-majors by permit only. May not be repeated for</td>
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<tr>
<td>COM 4414</td>
<td>Race and Gender in Popular Film and Television (3) AS SPE</td>
<td>3</td>
<td>SPC 2541, COM 3051</td>
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<tr>
<td></td>
<td>Explores representations of race and gender in contemporary TV and film and</td>
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<td>utilizes feminist and critical race theories to interrogate social</td>
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<td>inequalities. Majors only. Non-majors by permit only. May not be repeated</td>
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<td>COM 4490</td>
<td>Communication and Love (3) AS SPE</td>
<td>3</td>
<td>SPC 3301</td>
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<td>Examines concepts, philosophy, and theories of love in connection with</td>
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<td>communication skills. Majors only; others by permission of instructor.</td>
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<td>COM 4530</td>
<td>Influencing Public Opinion (3) AS SPE</td>
<td>3</td>
<td>COM 2000, SPC 2541</td>
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<td>Explores foundations, history, measurement techniques, and persuasive</td>
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<td>strategies of public opinion research and practice from rhetorical</td>
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<td>perspectives. Not repeatable for credit.</td>
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<td>COM 4702</td>
<td>Communication, Language, and Mental Illness (3) AS SPE</td>
<td>3</td>
<td>COM 2000, SPC 3301</td>
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<td>Explores intersection of mental illness and communication as language, talk-</td>
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<td></td>
<td>in-interaction, and discourse as social practice. For majors; non-majors by</td>
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<td></td>
<td>permit. May not be repeated for credit.</td>
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<tr>
<td>COM 4710</td>
<td>Writing Lives 6AC (3) AS SPE</td>
<td>3</td>
<td>SPC 2541, COM 3051</td>
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<td></td>
<td>Emphasizes writing stories about our lives and the</td>
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<td>lives of others as a way to understand, cope with and communicate the</td>
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<td>social experiences.</td>
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<tr>
<td>COM 4931</td>
<td>Special Topics in Media Analysis (3) AS SPE</td>
<td>3</td>
<td>SPC 2541, COM 3051</td>
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<tr>
<td></td>
<td>Selects contemporary topics in media, media genres, and forms to examine</td>
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<td></td>
<td>how social issues are reflected and changed. Majors only; non-majors by</td>
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<td></td>
<td>permit only. May be repeated for credit as topics change for 9 total credits.</td>
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<tr>
<td>COM 4942</td>
<td>Communication Intern Seminar (3) AS SPE</td>
<td>3</td>
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<tr>
<td></td>
<td>Seminar provides students with an opportunity to put into practice concepts</td>
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<td>and skills acquired in their study of communication. Weekly seminar</td>
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<td>sessions augment intern experience. Application for seminar may be</td>
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<td>submitted one semester prior to the</td>
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<td>seminar offering.</td>
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<tr>
<td>COM 4958</td>
<td>Communication Senior Capstone CPST (3) AS SPE</td>
<td>3</td>
<td>COM 2000, SPC 3301, ORI 3004, SPC 2541.</td>
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<td></td>
<td>This capstone course for the Communication major features projects linking</td>
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<td>theory to practice, real world communication situations, and critical</td>
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<td>analysis of audiences and issues. Senior standing. For majors only.</td>
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<tr>
<td>COM 5930</td>
<td>Topics in Communication Studies (3) AS SPE</td>
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<td></td>
<td>Topical issues in communication.</td>
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<tr>
<td>COP 1930</td>
<td>Special Topics for Information Technology (1-3) EN ESB</td>
<td>1-3</td>
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<td></td>
<td>Special topics course.</td>
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<tr>
<td>COP 2000</td>
<td>Programming Fundamentals for Information Technology (3) EN ESB</td>
<td>3</td>
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<tr>
<td></td>
<td>An introduction to computer programming using a modern high-level language</td>
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<td></td>
<td>with applications to Information Technology. Topics include variables, types,</td>
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<td>expressions, and assignment, control structure, I/O, functions, and</td>
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<td>structured decomposition.</td>
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<tr>
<td>COP 2270</td>
<td>Programming in C for Engineers (3) EN ESB</td>
<td>3</td>
<td>MAC 2281, MAC 2311 or MAC 2241.</td>
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<tr>
<td></td>
<td>This class prepares students to use the C programming language and the</td>
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<td>MATLAB environment to develop solutions to small scale scientific and</td>
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<td>engineering problems.</td>
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<tr>
<td>COP 2510</td>
<td>Programming Concepts (3) EN ESB</td>
<td>3</td>
<td>MAC 2281 or equivalent.</td>
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<tr>
<td></td>
<td>An examination of a modern programming language emphasizing programming</td>
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<td>concepts and design methodology.</td>
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<td>COP 2930</td>
<td>Special Topics for Information Technology (1-3) EN ESB</td>
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<td>Special topics course.</td>
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<tr>
<td>COP 3257</td>
<td>JAVA for Experienced Programmers (3) EN ESB</td>
<td>3</td>
<td>COP 3514 or equivalent.</td>
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<tr>
<td></td>
<td>Program design and development using the JAVA programming language.</td>
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<td>Comparison of program design in a procedural language (C recommended) versus</td>
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<td>design in the JAVA language. Application development using advanced</td>
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<td>programming techniques.</td>
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<tr>
<td>COP 3331</td>
<td>Object Oriented Software Design (3) EN ESB</td>
<td>3</td>
<td>COP 3514</td>
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<td></td>
<td>PR: COP 3514.</td>
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<td>CPR: CDA 3103</td>
</tr>
</tbody>
</table>

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

COP 3514 Program Design (3) EN ESB
PR: COP 2510 or comparable introductory programming course
The class extends students' programming knowledge by systematically considering the concepts involved in program design and creation. Students will also build upon their previous programming experience by learning to use the C programming language in a networked environment.

COP 3515 Program Design for Information Technology (3) EN ESB
PR: COP 2510
Concepts associated with the design and implementation of computer programs are studied, with emphasis on creation of programs to be developed and maintained in a variety of environments from small to large information technology organizations.

COP 3931 Special Topics for Information Technology (1-3) EN ESB
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

COP 4020 Programming Languages (3) EN ESB
PR: COP 4530.
An introduction to the specification, design, and analysis of programming languages. Topics include syntax, operational semantics, type systems, type safety, lambda calculus, functional programming, polymorphism, side effects, and objects.

COP 4313 Symbolic Computations in Mathematics 6AM (3) AS MTH
PR: MAS 3105 and MAP 2302.
Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematical, or Macsyma.

COP 4365 Software System Development (3) EN ESB
PR: COP 4530.
Analysis, design, and development of software systems using objective methodology with object oriented programming and advanced software development tools (such as integrated development environments).

COP 4530 Data Structures (3) EN ESB
PR: COT 3100 and COP 3331 and CDA 3103
Understand and implement fundamentals of concise data structure and organization for program efficiency, clarity and simplification. Implementation of different data types and structures. Understanding of current data structures. Functional programming concepts will be covered.

COP 4600 Operating Systems (3) EN ESB
PR: COP 4530.
Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

COP 4610 Operating Systems for Information Technology (3) EN ESB
PR: EEL 4854
Introduction to concepts and practices of modern operating systems. Topics include process, parallelism, memory management, resource allocation and file systems. Algorithms are used to understand many of the concepts associated with operating systems.

COP 4610L Operating Systems Laboratory for Information Technology (1) EN ESB
PR: EEL 4854
Implementation and evaluation of models discussed in the lecture part of the course. Students implement operating system algorithms in stand-alone mode, and modify real operating system code. Students implement and test algorithms in a lab environment.

COP 4620 Compilers (3) EN ESB
PR: COP 4530
Introduction to techniques for compiling software; lexical, syntactic, and semantic analyses; abstract syntax trees; symbol tables; code generation and optimization.

COP 4656 Software Development for Mobile Devices (3) EN ESB
PR: COP 4530
This course covers software development for mobile devices, mainly cellular phones. The primary goal of the course is to teach students how to design, develop, and deploy complete market-ready applications for mobile devices.

COP 4703 Database Systems for Information Technology (3) EN ESB
CR: EEL 4854
Fundamentals of database management systems are presented, covering relational, CODASYL, network, hierarchical, and object-oriented models. Topics include basic design concepts, analysis of efficiency as well as actual implementations of such systems.

COP 4710 Database Design (3) EN ESB
PR: COP 3331
CPR: COP 4530
This course covers the fundamentals and applications of database management systems, including data models, relational database design, query languages, and web-based database applications.

COP 4814 Web Services (3) EN ESB
The Web services model, based on the Open Standards of SOAP, WSDL, and UDDI, is studied and applied.
COURSE DESCRIPTIONS

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COP 4816 XML Applications (3) EN ESB
This course introduces extensible Markup Language (XML), a technology for exchanging structured information over the Internet, and examines a sampling of its many applications.

COP 4834 Data-Driven Web Sites (3) EN ESB
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 4883 Advanced Java Programming for Information Technology (3) EN ESB
PR: CEN 4031
Concepts of object-oriented programming in Java and Java foundation classes. Topics include classes, inheritance, interfaces, graphic user interfaces, event-driven programming, exception handling, and networking.

COP 4930 Information Technology Seminar (1-3) EN ESB
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.

COP 4931 Special Topics for Information Technology (1-3) EN ESB
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

COP 5016 Introduction to Unix and C (3) EN ESB

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 4115 Advanced Discrete Structures with Cryptology (3) EN ESB
PR: COP 4530, COT 3100.
Advanced topics in discrete mathematics: number theory, groups, rings and fields, finite fields, and combinatorics, as applied to computer systems. Theoretical application of mathematical concepts to coding theory and cryptography.

COT 4210 Automata Theory and Formal Languages (3) EN ESB
PR: COT 3100, COP 4530.
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, COP 4530.
Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

COT 4521 Computational Geometry (3) EN ESB
PR: COP 4530, COT 4400.
Computational geometry is the study of efficient algorithms to solve geometric problems. Topics covered include Polygonal Triangulations, Polygon Partitioning, Convex Hulls, Voronoi Diagrams, Arrangements, Search and Intersection, and Motion Planning.

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

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

CPO 4930 Comparative Government and Politics of Select Areas (3) AS GIA
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 GIA
Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.

CRW 2100 Narration and Description 6AC (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 bridge the gap between expository writing and imaginative writing.

CRW 3111 Form and Technique of Fiction 6AC (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. Will not count toward the English major.

CRW 3112 Fiction I 6AC (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 6AC (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,
COURSE DESCRIPTIONS

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

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

CRW 4120 Fiction III (3) AS ENG
PR: CRW 4202.
A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

CRW 4540 Water Resources Engineering I (3) EN EGX
PR: CWR 4202.
A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design-oriented course to design both industrial and domestic water treatment and water transport systems and hydraulic systems.

DAA 2100 Fundamentals Of Modern Dance (2) FA DAN
A studio class for students with a serious interest in concert modern dance. Emphasis upon correct alignment, development of strength, rhythmic and dynamic activity, as well as spatial and locomotor patterns. May be repeated up to six credit hours.

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

DAA 2204 Ballet I (2) FA DAN
A studio class for students with a serious interest in Ballet. Further emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

DAA 2500 Fundamentals Of Jazz Dance (2) FA DAN
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic patterns. May be repeated up to 6 credits.

DAA 2504 Jazz Dance (2) FA DAN
PR: DAA 2500
A technique class for the intermediate level dancer to become acquainted with the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement with a strong rhythmic base. May be repeated.

DAA 2570 Jazz Theatre Dance (3) FA DAN
PR: DAA 2504
Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Solo and ensemble studies leading to performance. May be repeated up to 6 credits.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>DAA 3108</td>
<td>Modern Dance II (3) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 3109</td>
<td>Modern Dance III (2-3) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 3209</td>
<td>Ballet III (1-3) FA DAN</td>
<td>Continuation of DAA 3208. Intensification of barre exercises for the development of strength and form. Application of phrasing and movement. Material covered as practical work in class for concerts and performances. May be repeated.</td>
</tr>
<tr>
<td>DAA 3214</td>
<td>Ballet II (3) FA DAN</td>
<td>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 as practical work in class for a few outside projects. Concert and performance attendance required. May be repeated.</td>
</tr>
<tr>
<td>DAA 3294</td>
<td>Ballet Variations (1) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 3395</td>
<td>World Dance Topics (1) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 3614</td>
<td>Choreography I (2) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 3615</td>
<td>Choreography II (2) FA DAN</td>
<td>PR: DAA 3614 Preparation of studies in rhythm, dynamics, form and motivation.</td>
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<tr>
<td>DAA 3624</td>
<td>Dance Improvisation (2) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 3654</td>
<td>Repertory I (1) FA DAN</td>
<td>The development and performance of solo and/or group dances.</td>
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<tr>
<td>DAA 3684</td>
<td>Repertory II (1) FA DAN</td>
<td>The development and performance of solo and/or group dances.</td>
</tr>
<tr>
<td>DAA 3686</td>
<td>Junior Performance Project (1) FA DAN</td>
<td>Required for junior dance majors. Involves rehearsal and performance of work presented by a senior dance major in the dance program. Open to all university students proficient in dance techniques and concurrently enrolled in technique courses. Repeatable.</td>
</tr>
<tr>
<td>DAA 4110</td>
<td>Modern Dance IV (3) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4211</td>
<td>Ballet IV (1-3) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4616</td>
<td>Choreography III (2) FA DAN</td>
<td>PR: DAA 3615 CR: DAA 3109 or above Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged.</td>
</tr>
<tr>
<td>DAA 4617</td>
<td>Choreography IV (2) FA DAN</td>
<td>PR: DAA 4616 The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading.</td>
</tr>
<tr>
<td>DAA 4687</td>
<td>Performance (1-2) FA DAN</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4694</td>
<td>Senior Choreography Project (1-5) FA DAN</td>
<td>The creation of an original group work and solo within the senior's major concentration-ballet or modern. To be performed and presented with the concurrence of a faculty advisor.</td>
</tr>
<tr>
<td>DAA 4930</td>
<td>Dance Studies (1-3) FA DAN</td>
<td>Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops.</td>
</tr>
<tr>
<td>DAE 4340</td>
<td>Dance Pedagogy: Secondary Curriculum (3) FA DAN</td>
<td>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.</td>
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</table>
COURSE DESCRIPTIONS

DAE 4394 Senior Seminar In Dance Education (2) FA DAN
CR: DAE 4940
This course represents a synthesis of the teacher candidates courses and is required concurrently with the internship.

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

DAN 2160 Entry Seminar (2) FA 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 Technical Theatre in Dance (2) FA DAN
An introductory course in technical production including lighting, sound, scenic, stage management/production and front of house. Requires load-in hours/crew assignments during USF Fall and Spring Dance Concerts.

DAN 3614 Music For Dance (2) FA DAN
Development of musical skills in movement studies. Continued study of the inter-relationship of music and dance through movement experiences, observations, video, and writing.

DAN 3615 Music For Dance II (2) FA DAN
PR: DAN 3614
Development of practical music skills in relation to dance. Continued problems in rhythmic materials and the relationship of music forms to dance. Elements within historical context.

DAN 3714 Dance Kinesiology (3) FA 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, enhanced performance and injury prevention.

DAN 4134 Ballet History WRIN 6AC (3) FA DAN
This is a lecture course in dance history stemming from its roots in Renaissance court dance through the mid-20th century focusing primarily on the history of ballet as an art form.

DAN 4135 20th Century Dance History CPST HHCP (3) FA DAN
Designed for majors and non-majors, this course will trace the development of dance as an art form in the 20th 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) FA DAN
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 4180 Dance Senior Seminar (2) FA DAN
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 4434 Laban Movement Analysis (3) FA 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) FA DAN
Independent studies in the various areas of Dance. Must receive approval prior to registration. May be repeated.

DAN 4930 Selected Topics In Dance (1-3) FA DAN
The content of the course will be governed by student and instructor interest. May be repeated by majors.

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

DEP 3103 Child Psychology (3) AS PSY
Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior.

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

DEP 4220 Autism Spectrum Disorders (3) AS PSY
PR: PSY 3213
Overview of research; information about causes of disorder; historical and philosophical views; biological & psychological research; efforts to help individuals live productive & independent lives; recent controversies; integrative approach to treatment.

DIE 3310 Community Nutrition (3) PH CFH
PR: HUN 2201
An introduction to federal, state, and local nutrition intervention programs and their impacts. Emphasis is placed on diagnostic tools used in community nutrition and programs as well as methods used to address community nutrition issues. Course is not restricted to majors. It is not repeatable for credit.
EAB 4715 Supervised Practicum and Field Experience in Applied Behavior Analysis (1-6) AS PSY
PR: PSY 4933 with a grade of B or better.
Field experience in Behavior Analysis in applied settings. Under the supervision, involves the 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.

EAP 1850 English for International Students I (6) AS WLE
This course supports the development of academic English for international students, with an emphasis on processing, analyzing, and integrating information from academic texts and lectures, and applying pragmatic skills in university interactions.

EAP 1851 English for International Students II (6) AS WLE
This course supports the development of academic English for international students, with an emphasis on researching and producing papers and presentations in a variety of academic genres with appropriate academic language use.

EAS 4121 Hydro and Aerodynamics (3) EN EGR
PR: EML 3701, MAP 2302.
Integration of previous knowledge into the definition of reactors and separation processes, through the hierarchical use of material balance, phenomenological and energy balance equations. Representation of streams as arrows and processes as black boxes in Box Flow Diagrams, BFD. Application of degree of freedom analysis.

ECH 3240L Chemical Engineering Laboratory I (3) EN ECH
PR: ECH 3023, ENC 3246, EGN 3443.
Laboratory experiments in mass and energy balances, transport phenomena and chemical engineering thermodynamics. Accompanied by lectures on safety, data analysis, obtaining information, practice of chemical engineering and professional preparation.

ECH 3266 Transport Phenomena I (3) EN ECH
PR: EGN 3343, ECH 3023, MAP 2302 OR EGN 3433
Introduce principles of momentum, mass and heat transport. Mathematical modeling of transport in one dimension and obtain solutions for fluxes and profiles. To utilize them to obtain engineering quantities.

ECH 3266 Transport Phenomena I (3) EN ECH
PR: EGN 3343, ECH 3023, MAP 2302 OR EGN 3433
Introduce principles of momentum, mass and heat transport. Mathematical modeling of transport in one dimension and obtain solutions for fluxes and profiles. To utilize them to obtain engineering quantities.

ECH 3854 Chemical & Biomedical Engineering Computations (3) EN ECH
PR: PHY 2048, CHM 2046, MAC 2282 OR MAC 2312
Engineering statistics and programming in MATLAB, with applications to ChBME problems. Includes numerical representations, matrix indexing, nested loops, conditional statements.

ECH 4415C Engineering Thermodynamics (3) EN ECH
PR: ECH 3023, EGN 3343, MAP 2302 or EGN 3433
Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design.
Chemical Engineering Processes laboratory experiments: fluid flow, heat transfer, reacting systems, and process control. Majors only. Not repeatable for credit.

ECH 4264 Transport Phenomena (4) EN ECH
PR: MAP 2302, EGN 3343

ECH 4265C Mass Transfer Operations (4) EN ECH
PR: ECH 4845, ECH 4264, ECH 4123
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 4267 Transport Phenomena II (3) EN ECH
PR: ECH 3266 and ECH 4123 and ECH 4846
Introduce application of unsteady and steady state modeling in mass, momentum, and heat transfer. Explain design based on transport processes for equipment such as heat exchangers, packed beds, mixing tanks etc.

ECH 4323C Process Dynamics and Control (3) EN ECH
PR: ECH 3702, ECH 4265C

ECH 4415C Reaction Engineering (4) EN ECH
PR: CHM 2210, ECH 4265C
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 4418 Separation Processes (3) EN ECH
PR: ECH 3266 and ECH 4123 and ECH 4846
CR: ECH 4267
Design of stage-wise and continuous separation processes for gas absorption, distillation, adsorption, liquid-liquid extraction, membrane separations. Utilization of process simulators and design case studies.

ECH 4504 Kinetics and Reaction Engineering (3) EN ECH
PR: CHM 2210
CPR: ECH 4418, ECH 4267
The course introduces design of commercial chemical reactors, emphasizing synthesis of chemical kinetics and transport phenomena.

ECH 4605 Product and Process Systems Engineering (3) EN ECH
PR: ECH 4264, ECH 4265C, ECH 4845

ECH 4615 Product and Process Design CPST (3) EN ECH
PR: 4415C, ECH 4605
CR: ECH 4323C
Synthesis and analysis of economically feasible and environmentally acceptable chemical processing routes; Design of safe chemical production and treatment facilities; Chemical product design; Computer Aided-Design; Case studies and Design Project.

ECH 4644 Process Equipment and Safety (3) EN ECH
PR: ECH 4264, ECH 4123
CPR: ECH 4265
Design, sizing, selection and preparation of equipment specifications for the process industry in accordance with process safety management guidelines and OSHA requirements.

ECH 4846 Numerical Methods in Chemical Engineering (3) EN ECH
PR: ECH 3023, EGN 3343, EGN 3433 or MAP 2302.
Computer usage in chemical engineering. Use of computer methods to solve chemical engineering problems. Solution of linear and nonlinear algebraic and differential equations that arise in chemical engineering. Optimization methods.

ECH 4905 Independent Study (1-4) EN ECH
Specialized independent study determined by the student's needs and interests. Students must have contract with instructor.

ECH 4931 Special Topics in Chemical Engineering II (1-3) EN ECH

ECH 4936 Undergraduate Seminar (1) EN ECH
CPR: ECH 3023

ECH 4944 Industry Internship (1-6) EN ECH
PR: ECH 3023
Individual study as practical chemical and biomedical engineering related work under industrial supervision with a faculty approved outline and end-of-semester report.

ECH 5320 Chemical Process Engineering I (4) EN ECH
The course presents the principles of mass balances, classical thermodynamics, phase equilibria, energy balances, and psychrometrics. The student will learn by doing many case studies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 5321</td>
<td>Chemical Process Engineering II</td>
<td>4</td>
<td>EN ECH</td>
<td>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. Not available for chemical engineering students.</td>
</tr>
<tr>
<td>ECH 5322</td>
<td>Chemical Process Engineering III</td>
<td>4</td>
<td>EN ECH</td>
<td>Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.</td>
</tr>
</tbody>
</table>
| ECH 5324    | Automatic Process Control II | 3 | EN ECH | PR: ECH 4323C
The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feedforward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation. |
| ECH 5327    | Chemical Process Control | 4 | EN ECH | Basic concepts of feedback control, process dynamics, process controllers (PID) including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students. |
| ECH 5740    | Theory and Design of Bioprocesses | 3 | EN ECH | Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems. |
| ECH 5747C   | Selected Topics in Chemical Engineering Biotechnology | 1-3 | EN ECH | Selected topics in engineering biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations. |
| ECH 5748    | Selected Topics in Biomedical Engineering | 1-3 | EN ECH | Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. |
| ECH 5785    | Sustaining the Earth: An Engineering Approach | 3 | EN ECH | An approach of global perspective on ecological principles revealing how all the world's life is connected and sustained within the biosphere and how engineering provides the tools to design solutions engaging materials science & environmental ethics. |
| ECH 5786    | Green Engineering | 3 | EN ECH | Synthesis and design of green chemical, biological and energy conversion processes and products. Environmental impact analysis; green chemistry and materials; life cycle analysis; industrial ecology; systematic methods and real-life examples. |
| ECH 5930    | Special Topics III | 1-4 | EN ECH | |
| ECH 5931    | Special Topics IV | 1-4 | EN ECH | |
| ECO 1000    | Basic Economics | 3 | AS ECN | Survey of economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance. |
| ECO 2013    | Economic Principles (Macroeconomics) | 3 | AS ECN | ECO 2013 introduces students to basic economic terminology, definitions and measurements of macroeconomic data, simple macroeconomic models, fiscal and monetary policy, and international macroeconomic linkages. |
| ECO 2023    | Economic Principles (Microeconomics) | 3 | AS ECN | Introduction to the theory of price determination. How an economy decides what to produce, how to produce, and how to distribute goods and services. |
| ECO 2052    | Analytical Tools for Economists | 3 | AS ECN | Mathematical tools required for the study of undergraduate economics. Topics include algebra, graphing, and basic differential and integral calculus required for students to succeed in undergraduate economics courses. |
| ECO 2935    | Selected Topics In Economics | 1-3 | AS ECN | Topics selected by department. May be repeated if topics vary. |
| ECO 3101    | Intermediate Price Theory | 3 | AS ECN | PR: ECO 2023 and MAC 2233 or MAC 2311 or equivalent.
The price system and allocation of scarce resources between competing uses. May not receive credit for both ECP 3703 and ECO 3101. |
| ECO 3203    | Intermediate Macroeconomics | 3 | AS ECN | PR: ECO 2013 and ECO 3101 or ECP 3703 with a grade of
Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply. |
Growth and evolution of American economic institutions from Colonial times to the present. |
Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange |
rate determination, balance of payments stability, and international commercial policy.

**ECO 4105 Advanced Price Theory (3) AS ECN**
PR: ECO 3101 or ECP 3703 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.

**ECO 4201 Advanced Macroeconomic Theory (3) AS ECN**
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.

**ECO 4270 Economic Growth (3) AS ECN**
PR: ECO 3101 or ECP 3703.
This course provides an introduction to the theory of economic growth, the process whereby the level of real output per capita increases over time. Emphasis is on the role of factor accumulation and productivity growth and their underlying fundamentals.

**ECO 4303 History of Economic Thought (3) AS ECN**

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

**ECO 4400 Game Theory and Economic Applications (3) AS ECN**
PR: ECO 2013 and ECO 2023
This course is an introduction to game theory, the study of strategic behavior among parties having opposed, mixed or similar interests.

**ECO 4401 Introduction to Mathematical Economics (3) AS ECN**
PR: ECO 2013 and ECO 2023, and MAC 2241 or MAC 2233
Mathematical models of optimizing behavior and economic equilibrium.

**ECO 4421 Introduction to Econometrics (3) AS ECN**
PR: ECO 3101 or ECP 3703, and QMB 3200 with a grade of B or better
Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.

**ECO 4504 Public Finance (3) AS ECN**
PR: ECO 3101 or ECP 3703 with a grade of B or better

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

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

**ECO 4905 Independent Study (1-3) AS ECN**
Specialized independent study determined by the student's needs and interests. May be repeated up to 6 hours.

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

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

**ECO 4970 Economics Honors Thesis (3) AS ECN**
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

**ECP 3125 Economics of Inequality (3) AS ECN**
PR: ECO 1000 or ECO 2013 or ECO 2023 or equivalent
Economic facts, theories and policies concerning income inequality, poverty and discrimination in the U.S. economy and elsewhere in the world.

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

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

ECP 3302 Environmental Economics (3) AS ECN
PR: ECO 2023
An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

ECP 3403 Industrial Organization (3) AS ECN
PR: ECO 3101 or ECO ECP 3703.
Behavior of firms and market structure when the standard assumption of perfect competition in the market is violated. Existence of market power, how firms create and maintain it, implications of market power, and related public policy issues.

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

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

ECP 3613 Urban Economics (3) AS ECN
PR: ECO 3101 or ECP 3703
The role of space in understanding urban areas and their problems. Economic forces determining where people and firms locate within urban areas. Urban economic growth and development, land-use regulation, urban sprawl, transportation, urban government.

ECP 3623 Regional Economics (3) AS ECN
PR: ECO 3101 or equivalent
Survey of regional economics covers theories of location and land use of households and firms; central place theory; spatial structure of urban economy; regional income determination; interregional migration; and urban and regional policy analysis.

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

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

ECP 4451 Law and Economics (3) AS 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) AS ECN
PR: ECO 2013 and ECO 2023
Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions, and corrections.

ECP 4510 Economics of Education (3) AS ECN
PR: ECO 3101, or ECO 2023 and ECO 2013 with B or better
Economic analysis of the goals of education in American society. Topics include theories of human capital and signaling, private returns to schooling, social welfare benefits and role of the public sector, and factors affecting educational productivity.

ECP 4704 Economics of Business Strategy (3) AS ECN
PR: ECO 3101 or ECP 3703
This course examines strategies businesses can employ to improve their abilities to compete profitably. Employs game theory to examine horizontal and vertical boundaries of firm, strategic diversification, pricing, and entry deterrence.

ECS 3013 Economic Development (3) AS ECN
PR: ECO 2013 and ECO 2023
Economic development in emerging nations.

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

ECS 4430 Economics of Latin America (3) AS 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.

ECT 4905 Independent Study: Industrial-Technical Education (1-4) ED EDV
Specialized independent study determined by the student's needs and interests.

ECT 4909 Directed Study: Industrial-Technical Education (1-3) ED EDV
To extend competency in teaching field.

ECT 4936 Senior Seminar in Industrial-Technical Education (2) ED EDV
CR: EVT 4940.
Synthesis of teacher candidate's courses in complete college program.
ECT 5386 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.

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

EDE 4223 Creative Experiences for the Child (3) ED EDR
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 Instructional Planning for Diverse Learners (3) ED EDR
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 4504 Creating and Differentiating Learning Environments (3) ED EDR
Approaches to managing the elementary instructional environment and specific strategies for maintaining a safe, positive classroom climate are examined as well as current knowledge of innovative best practices in differentiated instruction.

EDE 4802 The Teacher as Researcher WRIN 6AC (3) ED EDR
CR: EDE 4940
This course prepares teacher candidates to conduct teacher research within their classrooms. This research is presented as a paper which is revised across the semester that summarizes the classroom research.

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

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

EDE 4940 Internship: Elementary Education CPST (3-12) ED EDR
PR: EDE 4941 and EDE 4942
CR: EDE 4936
Teacher candidate required to demonstrate professional competencies during full day internship in a public or private elementary school.

EDE 4941 Childhood Education Internship Level I (3) ED EDR
CR: RED 4310, EDG 4620
Students spend six hours per week in a supervised in-school experience and attend weekly seminar.

EDE 4942 Childhood Education Internship Level II (3-6) ED EDR
PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, SCE 4310, LAE 4414, SSE 4313, EME 2040.
Students spend two days per week in a supervised internship experience in classroom settings and attend a weekly seminar. Course is restricted to Elementary Education majors. Course is repeatable for credit, for a total of 6 credit hours.

EDE 4943 Alternative Setting Field Experience (3) ED EDR
PR: EDE 4942.
This alternative setting field experience course provides Undergraduate Teacher Candidates with opportunities to work with children in non-traditional, diverse settings and integrate course and field experiences to facilitate learning.

EDE 4944 Childhood Education Internship Level III (3) ED EDR
PR: EDE 4942.
This internship experience complements foundational coursework expected in the Elementary Education program. Students spend two full days per week in an internship experience in K-6 classrooms. The classroom experiences are supplemented by a weekly seminar.

EDF 2005 Introduction to the Teaching Profession (3) ED EDC
PR: EDF 2005
Introductory survey course required for admission into the College of Education. A broad overview of the history, sociology and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

EDF 2085 Introduction to Diversity for Educators (3) ED EDC
PR: EDF 2005
Introductory survey course required for admission into the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

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

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

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

EDF 3514 History of Education in the United States CASB HHCP (3) ED EDF
History of childhood, education, and schooling in the U.S. from early European and African contact to the present.

EDF 3604 Schools and Society WRIN 6AC (3) ED EDF
Social, economic and political context within which schools function and the values which provide direction for our schools.

EDF 4124 Child Growth and Learning (3) ED EDF
An introduction to child development and learning from an educational and psychological perspective. Emphasis is on the application of relevant constructs as they would reflect developmentally appropriate practices in early childhood learning settings.

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

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

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

EDF 4905 Independent Study: Educational Foundations (1-4) ED EDF
Specialized independent study determined by the student's needs and interests.

EDF 4909 Directed Study: Educational Foundations (1-3) ED EDF
To extend competency in teaching field.

EDF 5607 Trends in Education Politics (3) ED EDF
Contemporary education politics in the U.S. with interdisciplinary social-sciences perspectives.

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

EDG 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
To extend competency in teaching field.

EDM 3403 Middle Level Education (3) ED EDI
Middle level teacher candidates will learn the tenets of middle level education for todays young adolescent learner, with an emphasis on the developmental needs of young adolescent learners and the latest trends and issues in middle level education.

EDM 3620 Teaching the Young Adolescent Learner (3) ED EDI
Middle level teacher candidates will learn about the links between the developmental needs of young adolescents, learning theories, middle level curriculum, middle level instructional strategies, ethical behavior and professional competence.

EDM 4406 Contemporary Issues in STEM Education CPST (3) ED EDI
CR: MAE 4942 or SCE 4942
Provides middle school mathematics and science teacher candidates opportunities to explore STEM issues and their role in the STEM pipeline, experience integrated STEM learning opportunities, and develop problem and place-based learning activities.

EDP 3271 Child Development within a School Context (1) ED EDF
An introductory course designed to acquaint students with cognitive developmental theories and research that can be applied within a school context. Emphasis on the elementary school years. Restricted to Elementary or Special Education major.

EDP 3272 Learning within a School Context (1) ED EDF
An introductory course designed to acquaint students with brain development and learning that can be applied within a school context. Emphasis on the elementary school years. Restricted to Elementary or Special Education majors.

EDP 3273 Learning and Development within the School Context (3) ED EDF
An introductory course designed to acquaint students with developmental theories and research that can be applied within a school context. This course is required and restricted for the undergraduate elementary education program.

EDP 4275 Enhancing Children’s Learning and Development within a School Context (1) ED EDF
A course that helps students to design instruction while considering individual differences & theories.
and research in child development and learning. Emphasis on the Elementary School years. Restricted to elementary or Special Education majors.

**EEC 4008 Teaching Literature and Writing in Early Childhood WRIN 6AC (3) ED EDR**  
This course is designed to provide pre-service teachers with the skills necessary to implement a coordinated literature program and an integrated writing curriculum.

**EEC 4203 Programs for Young Children (3) ED EDR**  
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 Science for Young Children (3) ED EDR**  
PR: EDF 4124  
The purpose of this course is for pre-service teachers to apply research-based learning theories to plan and teach science effectively in the Early Childhood classroom. Enrollment is restricted to majors.

**EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art (3) ED EDR**  
PR: EDF 4124  
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, and learning.

**EEC 4303 Creative and Affective Experiences for Young Children (3) ED EDR**  
Develops students' understandings of young 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 4307 Cognitive Experiences for Young Children (3) ED EDR**  
PR: EDF 4124  
Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

**EEC 4321 Mathematics for Young Children (3) ED EDR**  
The purpose of this course is for pre-service teachers in the Early Childhood Program to apply research-based learning theories to plan and teach math effectively in the Early Childhood classroom.

**EEC 4408 Child, Family & Teacher Relations (3) ED EDR**  
PR: EDF 4124  
Focuses on developing an understanding of traditional and non-traditional families, structural and life style 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 4604 Classroom Management and Guidance of Young Children (3) ED EDR**  
CR: LAE 4414, EEC 4408, RED 4310.  
This course for early childhood education majors explores the current knowledge of guidance procedures and techniques for managing classrooms for children ages 3 to 8 years old.

**EEC 4706 Language and Emerging Literacy (3) ED EDR**  
PR: EDF 4124  
Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESOL children.

**EEC 4905 Independent Study: Early Childhood Education (1-4) ED EDR**  
Specialized independent study determined by the student's needs and interests.

**EEC 4909 Directed Study: Early Childhood Education (1-3) ED EDR**  
To extend knowledge in teaching field.

**EEC 4936 Senior Seminar in Early Childhood Education CPST (3) ED EDR**  
CR: EEC 4940  
This course focuses on helping the student synthesize university coursework and experiences in a full-time Pre-K and primary teaching placement. Emphasis is placed on planning and implementing developmentally appropriate teaching-learning experiences.

**EEC 4940 Internship: Early Childhood (10) ED EDR**  
CR: EEC 4936  
Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school.

**EEC 4941 Field Experience I (3) ED EDR**  
Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.

**EEC 4942 Field Experience II (3) ED EDR**  
Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing deeper understanding of children's development and implications of
of “system on a chip”, which is envisioned as the next revolution beyond integrated circuits. Students will learn the principles and techniques that are expected to apply to this future technology.

EEE 4506 Biomedical Image Processing (3) EN EGE
2D signal processing: image enhancement; edge detection and image segmentation. Medical imaging: 3D computerized tomography, magnetic resonance imaging; single photon emission computed tomography; positron emission tomography; radiographs.

EEE 5344C Digital CMOS/VLSI Design (3) EN EGE
PR: EEL 4705
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.

EEE 5356 Integrated Circuit Technology (3) EN EGE
PR: EEL 4351
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.

EEE 5357 Analog CMOS/VLSI Design (3) EN EGE
PR: EEE 4301

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

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 3420 with a minimum grade of C and CHM 2045, PHY 2049.
A third course in linear circuit analysis and design. Transient and steady-state responses of passive RLC networks to various functions.

EEL 3115L Laboratory I (1) EN EGE
PR: EGN 3373 with a minimum grade of B.
Students will learn the principles and techniques that are expected to apply to this future technology.
oscillators used in modern microwave systems, Investigate the characteristics of amplifiers and introduction to active RF/Microwave circuit design. PR: EEL 4421.

EEL 4102 Linear Systems Analysis (3) EN EGE
PR: EGG 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B.
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: EEE 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 4283 Sustainable Energy (3) EN EGE
This course aims to introduce students to concepts of sustainable energy conversion. Solar, wind, hydroelectricity, hydrogen, biomass and geothermal energy conversion methods as well as main storage technologies will be discussed.

EEL 4420 RF & Microwave Measurements (2-3) EN EGE
PR: EEL 4423L
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 treated are the use of on-wafer measurements for transistor characterization and the evaluation of monolithic microwave integrated circuits.

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

EEL 4422 RF/Microwave Circuits II (3) EN EGE
PR: EEL 4421.
Introduction to active RF/Microwave circuit design. Investigate the characteristics of amplifiers and oscillators used in modern microwave systems, the tools used for analysis, and some common circuit topologies for biasing and matching. Substantial coverage of stability analysis, constant gain methods and noise figure. Part two of a two-part sequence. EE majors only. Not available on an S/U basis.

EEL 4423L Wireless Circuits & Systems Design Laboratory (2) EN EGE
PR: EEL 4471.
An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern measurements, fabrication and computer-aided design experiences at both component and sub-system levels. Not available on an S/U basis.

EEL 4471 Electromagnetics (3) EN EGE
PR: MAP 2302 or EGG 3433, PHY 2049, PHY 2049L and EGG 3373 with a minimum grade of B. 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 and EEL 4102
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 Electro-Optics (3) EN EGE
PR: EEL 3115L, EEL 3116L, 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 4595 Mobile and Personal Communication (3) EN EGE
PR: MAP 2302 and PHY 2049L and EGN 3373 with a minimum grade of B. An introduction to the theory and application of mobile and personal communication systems, involving modern measurements, instruments and measurement techniques needed for the design and implementation of automatic industrial control systems. Students will learn the basics of the software and hardware used for the design and implementation of control systems.

EEL 4705 Logic Design (3) EN EGE
### Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4705L</td>
<td>Logic Laboratory (1) EN EGE</td>
<td>1</td>
<td>EEL 4705</td>
<td>Develop designs and demonstrate logic concepts. Schematic capture for design implementation, simulation and design verification.</td>
</tr>
<tr>
<td>EEL 4727C</td>
<td>Digital Signal Processing with Field Programmable (3) EN EGE</td>
<td>3</td>
<td>EEL 4102 and EEL 4512C</td>
<td>Development of real-time digital signal processing systems from algorithm to hardware using DSP, FPGA and hybrid DSP/FPGA rapid prototyping platforms. The course has both lecture and laboratory components.</td>
</tr>
<tr>
<td>EEL 4743L</td>
<td>Microprocessor Laboratory (1) EN EGE</td>
<td>1</td>
<td>EEL 4744</td>
<td>Application of microprocessors and microcontrollers for data entry, processing, display and real time signal input/output and control.</td>
</tr>
<tr>
<td>EEL 4756</td>
<td>Digital Signal Processing (3) EN EGE</td>
<td>3</td>
<td>EEL 4102</td>
<td>Sampling and quantization of signals; frequency-domain representations, transforms; digital filtering filter structures; DFT, FFT; multi-rate processing. Special analysis.</td>
</tr>
<tr>
<td>EEL 4781C</td>
<td>Distributed Process &amp; Computer Networks (3) EN EGE</td>
<td>3</td>
<td>EEL 4851C</td>
<td>Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.</td>
</tr>
<tr>
<td>EEL 4852C</td>
<td>Data Base Systems (3) EN EGE</td>
<td>3</td>
<td>EEL 4851C</td>
<td>Fundamentals of data base management systems. Codasyl, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.</td>
</tr>
<tr>
<td>EEL 4854</td>
<td>Data Structures and Algorithms for Information Technology (3) EN ESB</td>
<td>3</td>
<td>COP 3515</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 4905</td>
<td>Independent Study (1-5) EN EGE</td>
<td>1-5</td>
<td></td>
<td>Specialized independent study determined by the students' needs and interests.</td>
</tr>
<tr>
<td>EEL 4906</td>
<td>EE Design 1 (3) EN EGE</td>
<td>3</td>
<td></td>
<td>CR: EEE 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.</td>
</tr>
<tr>
<td>EEL 4914</td>
<td>EE Design 2 CPST (3) EN EGE</td>
<td>3</td>
<td>EEL 4906</td>
<td>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.)</td>
</tr>
<tr>
<td>EEL 4935</td>
<td>Special Electrical Engineering Topics I (1-3) EN EGE</td>
<td>1-3</td>
<td></td>
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</tr>
<tr>
<td>EEL 4936</td>
<td>Special Electrical Engineering Topics II (1-3) EN EGE</td>
<td>1-3</td>
<td></td>
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</tr>
<tr>
<td>EEL 4937</td>
<td>Special Electrical Engineering Topics III (1-3) EN EGE</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 5250</td>
<td>Power System Analysis (3) EN EGE</td>
<td>3</td>
<td>EGN 3375</td>
<td>Analysis and design technique for AC power systems.</td>
</tr>
<tr>
<td>EEL 5462</td>
<td>Antenna Theory (3) EN EGE</td>
<td>3</td>
<td>EEL 4471</td>
<td>Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.</td>
</tr>
<tr>
<td>EEL 5594L</td>
<td>Wireless Circuits and Systems Laboratory (2) EN EGE</td>
<td>2</td>
<td>EEL 4471</td>
<td>This class will provide introductory tutorial learning, plus hands-on experience in analysis, design and measurement in the field of wireless communications.</td>
</tr>
<tr>
<td>EEL 5771</td>
<td>Introduction to Computer Graphics I (3) EN ESB</td>
<td>3</td>
<td>COP 4530</td>
<td>An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.</td>
</tr>
<tr>
<td>EEL 5935</td>
<td>Special Electrical Engineering Topics I (1-3) EN EGE</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 5936</td>
<td>Special Electrical Engineering Topics II (1-3) EN EGE</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 5937</td>
<td>Special Electrical Engineering Topics III (1-3) EN EGE</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEX 4012</td>
<td>Foundations of Special Education (3) ED EDS</td>
<td>3</td>
<td></td>
<td>Characteristics and needs of children who have learning disabilities, emotional disabilities, hearing impairments, mental retardation, physical</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

handicaps, speech impairments, visual limitations, and who are gifted and talented.

EEX 4054 Perspectives on Learning and Behavioral Differences (3) ED EDS
PR: EEX 4012
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

EEX 4201 Young Children With Special Needs (3) ED EDS
Focuses on developing an understanding of the wide range of needs and services for young children with special needs.

EEX 4202 Context and Foundations (6) ED EDS
CR: EEX 4942
This course is restricted to majors and forms the foundation for understanding the context of schools including curriculum, characteristics of students with disabilities, the nature of special education, and the role of the special education teacher.

EEX 4221 Educational Assessment of Exceptional Students (3) ED EDS
PR: EDF 3214, EDF 4430 and EEX 4012
CR: EEX 4941 and EEX 4894
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 4240 Beginning to Teach (6) ED EDS
PR: EEX 4202, EEX 4942
CR: EEX 4942.
This course is second in a sequence that focuses on Beginning to Teach in Special Education, allowing teacher candidates to use their understandings think critically and to solve problems.

EEX 4241 Creating Effective Learning Environments (3) ED EDS
PR: EEX 4240, EEX 4942
CR: EEX 4942
This course is third in a sequence for majors and focuses on Creating Effective Learning Environments in Special Education allowing teacher candidates to apply their understandings in a variety of school contexts with a small group of students.

EEX 4242 Enhancing Expertise in Teaching and Instructional Decision Making (6) ED EDS
PR: EEX 4241, EEX 4942
CR: EEX 4942
This course is fourth in sequence for majors and focuses on Enhancing Expertise in Teaching and Instructional Decision-Making.

EEX 4243 Education of Exceptional Adolescents and Adults (3) ED EDS
PR: EEX 4012 or equivalent
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 4244 Becoming a Special Education Teacher (3) ED EDS
PR: EEX 4242, EEX 4942
CR: EEX 4944
This course is designed to allow teacher candidates to demonstrate mastery of instructional planning, implementation of instruction, and data-based instructional decision-making during their final internship.

EEX 4604 Behavior Management for Special Needs and At-Risk Students (3) ED EDS
PR: EEX 4012
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 CPST 6AC (3) ED EDS
This course is designed to offer students a meaningful way to interpret and understand exceptionality.

EEX 4894 Clinical Teaching in Special Education (3) ED EDS
PR: EEX 4012
CR: EEX 4941
Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

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

EEX 4909 Directed Study: Exceptional Student Education (1-3) ED EDS
To extend competency in teaching field.

EEX 4936 Senior Seminar in Exceptional Student Education (1) ED EDS
CR: EEX 4940
Synthesis of teacher candidate's courses in complete college program.

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

EEX 4941 Practicum in Exceptional Student Education (1-4) ED EDS
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGI 5307</td>
<td>Theory and Development of Creativity</td>
<td>3</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EGI 5051</td>
<td>Nature and Needs of the Gifted</td>
<td>3</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EGI 4941</td>
<td>Undergraduate Supervised Practicum in Gifted Student Education (1-6)</td>
<td>3</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EEX 4942</td>
<td>Practicum in Exceptional Teacher Candidate Education (1-4)</td>
<td>1</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EEX 4944</td>
<td>Final Internship (1-12)</td>
<td>3</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EEX 5705</td>
<td>Seminar in Preschool Handicapped</td>
<td>2</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EEX 5752</td>
<td>Working With Families: A Pluralistic Perspective (3)</td>
<td>3</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EGI 5051</td>
<td>Theory and Needs of the Gifted</td>
<td>3</td>
<td>ED EDS</td>
</tr>
<tr>
<td>EGI 5000L</td>
<td>Foundations of Engineering Lab (1-3)</td>
<td>3</td>
<td>EN EGB</td>
</tr>
<tr>
<td>EGN 1113</td>
<td>Introduction to Design Graphics</td>
<td>3</td>
<td>EN EGB</td>
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<tr>
<td>EGN 2080</td>
<td>Light and the Arts: A Quantitative Approach</td>
<td>3</td>
<td>EN EGB</td>
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<tr>
<td>EGN 2081</td>
<td>Circuit Mathematics and Physics</td>
<td>3</td>
<td>EN EGB</td>
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<tr>
<td>EGN 2082</td>
<td>History of Electrotechnology</td>
<td>3</td>
<td>EN EGB</td>
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<tr>
<td>EGN 3000</td>
<td>Foundations of Engineering</td>
<td>3</td>
<td>EN EGB</td>
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<tr>
<td>EGN 3000L</td>
<td>Foundations of Engineering Lab</td>
<td>3</td>
<td>EN EGB</td>
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<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
<td>EN EGB</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
<td>EN EGB</td>
</tr>
<tr>
<td>EGN 3331</td>
<td>Mechanics of Materials</td>
<td>3</td>
<td>EN EGB</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**EGI 5307 Theory and Development of Creativity (3) ED EDS**

Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

**EGI 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 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.

**EEX 4942 Practicum in Exceptional Teacher Candidate Education (1-4) ED EDS**

PR: EEX 4202, EEX 4942, EEX 4240, EEX 4241. Each practicum is linked to a specific course and provides opportunities for teacher candidates to apply what they are learning in the field. Practicum is restricted to majors.

**EEX 4944 Final Internship (1-12) ED EDS**

PR: EEX 4942
CR: 4244

**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 services.

**EEX 5752 Working With Families: A Pluralistic Perspective (3) ED EDS**


**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.

**EEX 4942 Practicum in Exceptional Teacher Candidate Education (1-4) ED EDS**

PR: EEX 4202, EEX 4942, EEX 4240, EEX 4241. Each practicum is linked to a specific course and provides opportunities for teacher candidates to apply what they are learning in the field. Practicum is restricted to majors.

**EGI 5051 Nature and Needs of the Gifted (3) ED EDS**

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**CR: Sem I: EEX 4012; Sem II: EEX 4604; Sem III: EEX 4221 and EEX 4894. Designed to provide teacher candidates with carefully planned and supervised clinical experiences with exceptional students populations in a variety of settings. Candidates demonstrate the ability to apply concepts, theories and research. Repeatable up to six credit hours.**

**EGN 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.

**EGN 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.

**EGN 2080 Light and the Arts: A Quantitative Approach (3) EN EGB**


**EGN 2081 Circuit Mathematics and Physics (2) EN EGB**

Remedial work on the mathematical and physical concepts that are necessary for EGN 3373. Differentiation and integration, complex numbers, phasors, vectors, the physical laws for resistors, capacitors, and inductors.

**EGN 2082 History of Electrotechnology (3) EN EGB**

Highlights of the history of electrotechnology and its relation to the development of civilization. The contributions of Volta, Faraday, Morse, Bell, Hertz, Marconi, Franklin, etc. in the context of the development of western civilization. The impact of communications, electronics and computers in the twenty-first century.

**EGN 3000 Foundations of Engineering (0-3) EN EGB**

Introduction to the USF College of Engineering disciplines and the engineering profession. Course will provide you with knowledge of resources to help you succeed. Course topics include academic policies and procedures, study skills, and career planning.

**EGN 3000L Foundations of Engineering Lab (1-3) EN EGB**

PR: MAC 1147 with a grade of C or better STI2 650 or EAC2 29 or AP66 3 or AP68 3 or AP69 3. Introduction to engineering and its disciplines incorporating examples of tools and techniques used in design and presentation. Laboratory exercises will include computer tools, engineering design, team projects, and oral and written communication skills.

**EGN 3311 Statics (3) EN EGB**


**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, EGN 4427 CPR: CGN 4933
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites/CR/EXECL</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3331L</td>
<td>Mechanics of Materials Laboratory (1)</td>
<td>Experiments in mechanics of deformable bodies with integrated materials component. Lab.</td>
<td>EGN 3311, MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I (3)</td>
<td>Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat.</td>
<td>PHY 2048, MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3353</td>
<td>Basic Fluid Mechanics (3)</td>
<td>Fundamental and experimental concepts in ideal and viscous fluid theory; momentum and energy</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials Engineering I (3)</td>
<td>Structure and property relationships in engineering materials, i.e., metal, ceramic and</td>
<td>CHM 2045, MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Introduction to Electrical Systems I (3)</td>
<td>A course in AC and DC linear circuit analysis. Transient and steady-state analysis. Polyphase</td>
<td>PHY 2049, MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3374</td>
<td>Introduction to Electrical Systems II (3)</td>
<td>A second course in linear passive circuits (following EGN 3373). An extension of the</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3375</td>
<td>Electromechanical Systems (3)</td>
<td>Analysis of electromechanical device performance: transformers, transducers, DC motors and</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis (3)</td>
<td>Introduction to aspects of matrix algebra and complex algebra which are essential in</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 3433</td>
<td>Modeling and Analysis of Engineering Systems (3)</td>
<td>Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace</td>
<td>MAC 2283, PHY 2049</td>
<td></td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Probability and Statistics for Engineers (3)</td>
<td>An introduction to the basic concepts of statistical analysis with special emphasis on</td>
<td>MAC 2282</td>
<td></td>
</tr>
<tr>
<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications (3)</td>
<td>Presents basic economic models used to evaluate engineering activities and an understanding</td>
<td>MAC 2282</td>
<td></td>
</tr>
<tr>
<td>EGN 3940</td>
<td>Professional Engineering Internship (0)</td>
<td>Professional or interdisciplinary work period in engineering or career-related field.</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 4366</td>
<td>Materials Engineering II (3)</td>
<td>Applications and structure property relationships of commonly used engineering materials.</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 4427</td>
<td>Introduction to Linear Systems (2)</td>
<td>Study and application of matrix algebra, differential equations and calculus of finite</td>
<td>MAC 2283</td>
<td></td>
</tr>
<tr>
<td>EGN 4453</td>
<td>Numerical &amp; Computer Tools I in Civil &amp; Env Eng (3)</td>
<td>EXCEL spreadsheet operations, computer basics, computer programming operations, flow charts,</td>
<td>MAC 2281, PHY 2048</td>
<td></td>
</tr>
<tr>
<td>EGN 4454</td>
<td>Numerical &amp; Computer Tools II in Civil &amp; Env Eng (3)</td>
<td>Development of computer programs to perform these operations.</td>
<td>MAC 2281, PHY 2048</td>
<td></td>
</tr>
<tr>
<td>EGN 4905</td>
<td>Independent Study (1-5)</td>
<td>Specialized independent study determined by the students’ needs and interests.</td>
<td>MAC 2281</td>
<td></td>
</tr>
</tbody>
</table>
EIN 4172 ISO 9000/14000 (3) EN EGS
This course covers analysis of ISO 9000 and ISO 14000 publications with a view towards understanding the documentation process, auditing for registration purposes, and the relationship to the quality systems and programs.

EIN 4173 Quality Management Systems (3) EN EGS
This course presents the functions and responsibilities of the quality organization. Quality Management Systems concepts and tools for continuous improvement, include Baldrige Criteria, ISO 9000, and 6-Sigma, are analyzed for sequence of use and application.

EIN 4180 Principles of Engineering Management (3) EN EGS
Emphasis is placed on management practice in an engineering-intensive context. Topics include management theory, planning and control, strategic management, organizing, ethics, leadership, innovation and change, and communication skills.

EIN 4200 Creativity in Technology (3) EN EGS
This course is designed to aid in re-opening the creativity within ourselves so that each life can be a work of art. Exploration and discovery of the individual's higher SELF helps to develop their complete potential and creativity in all parts of life.

EIN 4213 Engineering Systems Safety (3) EN EGS
PR: EGN 3443
This course presents the theory and practical implications of concepts of system safety related to the life cycle of a product/system, analysis of the fundamental concepts, design implications, and specifications of safety in a human machine environment.

EIN 4214 Occupational Safety Engineering (3) EN EGS
Introduction to the principles of designing, maintaining, and managing a free-hazard workplace, including mechanical, fall/lifting, climate/environmental, electrical, fire, explosive and pressure. Covers design issues, warnings, and personal protective equipment.

EIN 4242 Ergonomics II (3) EN ESB
PR: EIN 3241
This course applies the concepts of work design and measurements within the ergonomic arena to achieve work design that is ergonomically feasible and effective.

EIN 4243C Human Factors 6AC (3) EN EGS
Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 4312C Work Analysis (3) EN EGS
PR: EGN 3613C or EGN 3615, EGN 3443. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

EIN 4333 Production Control (3) EN EGS
PR: ESI 4312.
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Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 4352 Engineering Cost Analysis (3) EN EGS
PR: EGN 3615.
This is a non-repeatable course restricted to Industrial Engineering majors. It provides students with the principles and techniques for the cost analysis, estimation and evaluation of engineering design in service and manufacturing organizations.

EIN 4364 Facilities Design and Cost Analysis (3) EN EGS
PR: EIN 4312C
CPR: EIN 4333, ESI 4221
Principles and techniques for the design, modification, cost analysis, and evaluation of service and industrial production facilities.

EIN 4385 Management of Technical Change (3) EN EGS
In this course we explore how technology changes can impact business, how employees accept changes to benefit the company, and how to gain optimal results from such changes. This course focuses on the tools to achieve successful change.

EIN 4451 Lean Six Sigma (3) EN EGS
A presentation of lean six sigma, what it is, details of the tools and methodology that comprise it, and how it relates to the business process improvements.

EIN 4453 Advanced Lean Six Sigma (3) EN EGS
PR: EIN 4451
Advanced Lean Six Sigma expands upon initial exposure to lean six sigma knowledge of available statistical tools and techniques. It carries the service learning designation and includes a compulsory project where learned concepts are applied.

EIN 4601C Automation and Robotics (3) EN EGS
PR: EIN 4621.
Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

EIN 4621 Manufacturing Processes (3) EN EGS
PR: EGS 1113.
The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4891 Capstone Design CPST (3) EN EGS
PR: EIN 4364.
Teams of students work on the design of a product/service company and performed tasks that range from product/service definition (and assessment of market needs) to production and evaluation of economic/financial feasibility. The product/service design will use existing prototype(s) that need revisions, improvements and enhancements considering design, usability, producibility/manufacturability, and delivery.

EIN 4933 Special Topics in Industrial Engineering (1-3) EN EGS
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

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

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

EIN 5201 Creativity in Technology (3) EN EGS
Designed to aid engineers, and others, re-open the creativity within themselves. It is focused on the student and his/her interests in technology and innovation. Graduate students and senior undergraduates.

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

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

EIN 5452 Engineering a Lean Enterprise (3) EN EGS
Engineering the Lean Enterprise introduces you to one of the most successful strategies in operations: lean manufacturing, as seen at Toyota and other companies. Lean manufacturing is a philosophy that applies both on and off the factory floor.

EIN 5510 Manufacturing Systems Analysis (3) EN EGS
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.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMA 4324</td>
<td>Corrosion of Engineering Materials I (3) EN EGX</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 5326</td>
<td>Corrosion Control (3) EN EGX</td>
<td>PR: EGN 3365. Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.</td>
</tr>
<tr>
<td>EML 2040</td>
<td>Introduction to Technology for Educators (3) ED EDI</td>
<td>Designed as an introduction to computer technology and its role in teaching and learning processes. Topics include educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools and telecommunications.</td>
</tr>
<tr>
<td>EML 3022</td>
<td>Computer Aided Design and Engineering (3) EN EGR</td>
<td>This course is intended for developing graphics design concepts in undergraduate students. Learning engineering drawing fundamentals, design views, design and analysis of mechanical engineering power transmission components using computer aided software.</td>
</tr>
<tr>
<td>EML 3035</td>
<td>Programming Concepts for Mechanical Engineers (1) EN EGR</td>
<td>PR: MAC 2281, PHY 2048. Solution of engineering and science problems using programming language such as Visual Basic or Maple. Topics include fundamentals of programming, controlling program flow and arrays. Restricted to majors; not repeatable for credit.</td>
</tr>
<tr>
<td>EML 3041</td>
<td>Computational Methods (3) EN EGR</td>
<td>PR: MAP 2302 with a minimum grade of C or EGN 3433 with a minimum grade of C and EML 3035 with a minimum grade of C and EGN 3343 with a minimum grade of C and EML 3500 with a minimum grade of C. Techniques for solving engineering problems using numerical methods. Topics include roots of equations, matrix algebra, simultaneous linear equations, numerical integration and differentiation, and curve fitting.</td>
</tr>
<tr>
<td>EML 3262</td>
<td>Kinematics and Dynamics of Machinery (3) EN EGR</td>
<td>PR: EGN 3321, EML 3022. Both courses with a minimum grade of C; and EGN 3343, EML 3500, both courses with a minimum grade of C. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.</td>
</tr>
<tr>
<td>EML 3500</td>
<td>Mechanics of Solids (3) EN EGR</td>
<td>PR: EGN 3311. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.</td>
</tr>
<tr>
<td>EML 3701</td>
<td>Fluid Systems (3) EN EGR</td>
<td>PR: EGN 3343 (with a minimum grade of C), EGN 3321 (with a minimum grade of C-). Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.</td>
</tr>
<tr>
<td>EML 4106C</td>
<td>Thermal Systems and Economics (3) EN EGR</td>
<td>PR: EGN 3343 and EML 3500, both courses with a minimum grade of C. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.</td>
</tr>
<tr>
<td>EML 4123</td>
<td>Heat Transfer (3) EN EGR</td>
<td>PR: EML 3701, EML 3041. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.</td>
</tr>
<tr>
<td>EML 4141</td>
<td>Thermal Management of Electronic Systems (3) EN EGR</td>
<td>PR: EML 4123. Introduction to principles of thermal management for controlling heat dissipation in electronics systems. Passive &amp; active thermal management techniques for electronic systems &amp; components are considered with regard to fundamental heat transfer modes.</td>
</tr>
<tr>
<td>EML 4220</td>
<td>Vibrations (3) EN EGR</td>
<td>PR: EML 3262, EML 3041 (Grade of C required)</td>
</tr>
</tbody>
</table>

**EML 4230 Introduction to Composite Materials (3) EN EGR**
PR: EML 3500 and EML 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.

**EML 4246 Tribology (3) EN EGR**
PR: EML 3500, EML 3701 and 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.

**EML 4284 Compliant Mechanisms (3) EN EGR**
PR: EML 3262
This course presents methods for the design of compliant mechanisms, mechanisms that gain some or all of their motion from the deflection of flexible members. The course treats mechanism analysis, synthesis, and design applications.

**EML 4302 Mechanical Engineering Laboratory II (3) EN EGR**
PR: EML 3303.
Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec.-lab. The Team-Project-Time Approach.

**EML 4310 Microcontrollers (3) EN EGR**
CR: EML 4312.
To introduce students to microcontroller technology, and to provide them with an understanding of the concepts and principles used to interface input and output devices to microcontrollers, program microcontrollers, and to develop applications.

**EML 4312 Mechanical Controls (3) EN EGR**
PR: EGN 3321, EGN 3373.

**EML 4325 Mechanical Manufacturing Processes (3) EN EGR**
PR: EGN 3365 with a minimum grade of C- and EGN 3343 and EML 3500 both with a minimum grade of C
Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

**EML 4326 Advanced Materials Processing (3) EN EGR**
PR: EML 3500 and EML 4325.
Advanced materials processing focuses on the fundamental principles of solidification, deformation, additive and subtractive processes. Integrated process modeling will lead to optimized performance through processing - structure - property relationships.

**EML 4395 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.

**EML 4414 Power Plant Engineering (3) EN EGR**
PR: EML 4106C.
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.

**EML 4419 Propulsion I (3) EN EGR**
PR: EML 3701, EML 3500
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.

**EML 4450 Alternative & Renewable Energy (3) EN EGR**
PR: EML 3500 and EGN 3343
An overview of energy conversion for electrical power generation and transportation, both conventional and sustainable. The course is aimed at mechanical engineering seniors and includes hands-on design projects.

**EML 4501 Machine Design (3) EN EGR**
PR: EML 3500 with a minimum grade of C and EML 3022 and EML 3262 both with a minimum grade of C-
Designed to teach students to apply the principles of 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.

**EML 4503 Sustainable Design and Materials (3) EN EGR**
PR: EML 4501
This course integrates sustainability into the design of engineered products. Topics include...
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materials selection and function performance, design for the 4 Rs, end-of-life concerns and product life cycle assessment methods.

EML 4551 Capstone Design CPST (3) EN EGR
PR: EML 4501 (minimum grade: C-) and EML 4106C (minimum grade: C-) and EML 3701 (minimum grade: C-)
Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS, CAD AND Pro/E.

EML 4552 Senior Mechanical Design (3) EN EGR
Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.

EML 4575 Principles of Fracture Mechanics (3) EN EGR
PR: EML 3500, EGN 3343, and MAC 2311 or equivalent.
Introduction to failure and fracture of linear and nonlinear engineering materials, as well as designing against fracture in modern materials.

EML 4593 Haptics (3) EN EGR
PR: EML 3041; EML 4312
Course covers the theory and implementation of haptic interfaces and rendering, teleoperation, modeling, control and stability of feedback for robotic systems and virtual environments, and the related human haptic sensing capabilities.

EML 4601 Air Conditioning Design (3) EN EGR
PR: EGN 3343 and EML 3500, both courses with a minimum grade of C
Application of thermodynamics, heat transfer, and fluid flow to sizing of HVAC systems. Heating and cooling calculations, air requirements, equipment sizing. Energy Code requirements. Design project.

EML 4702 Fluid Dynamics II (3) EN EGR
PR: EGN 3343, EGN 3321 and EML 3701
The Fluid Dynamics II course is a senior level technical elective for Mechanical Engineering Students. The goal of the course is develop an advanced understanding of fluid dynamics applied to mechanical engineering as well as to other related fields.

EML 4703 Mechanics of Compressible Fluids (3) EN EGR
PR: EML 3701, EGN 3343
Introduction to kinetic theory of gases, compressible flow equations, isentropic flow, flow with friction and heat transfer, compression and expansion in supersonic flow, normal and oblique shock waves and Prandtl-Meyer expansions.

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

EML 4930 Special Topics in Mechanical Engineering (1-3) EN EGR

EMR 4011 Mental Retardation and Developmental Disabilities (3) ED EDS
PR: EEX 4012 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.

ENC 1101 Composition I CAEC HHCP SGEC 6AC (3) AS ENG
This course helps prepare students for academic work by emphasizing expository writing, the basics of library research, and the conventions of academic discourse.

ENC 1102 Composition II CAEC 6AC (3) AS ENG
PR: ENC 1101 (or the equivalent, i.e. passing the CLEP exam).
This course emphasizes argument, research, and style. As students engage in creative and critical thinking, they learn to support assertions based on audience and purpose; students apply library research, strategies for revision, and peer response.

ENC 1130 Improving College-Level Writing (3) US RLS
This class approaches writing as a process and utilizes prewriting, drafting, revising, and editing. Through intensive reading and writing practice, the curriculum will address grammar, mechanics, punctuation, word usage, and essay structure.

ENC 2210 Technical Writing 6AC (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
Effective presentation of technical and semi-technical information. Will not count toward the English major.

ENC 3242 Technical Communication for Majors (3) AS ENG
PR: ENC 1101 & 1102 or EN 1121 & 1122.
The study of the range of possible careers for technical communicators with special emphasis on the issues that professional writers face in various workplace contexts and on the skills needed in word processing.

ENC 3246 Communication for Engineers WRIN 6AC (3) AS ENG
Focuses on writing concerns of engineers. Deals with the content, organization, format, and style of specific types of engineering documents. Provides opportunity to improve oral presentations.

ENC 3249 Communication for IT Professionals WRIN 6AC (3) AS ENG
PR: ENC 1101 and ENC 1102 or Honors English.
This course is devoted to the written and oral communication concerns of the 21st Century information technology professional. Students will be engaged individual and team development of professional and technical documents relevant to the IT field.

ENC 3250 Professional Writing WRIN 6AC (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
The course is an introduction to the techniques and types of professional writing, including correspondence and reports. It is designed to help strengthen skills of effective business and professional communication in both oral and written modes.

**ENC 3310 Expository Writing WRIN 6AC (3) AS ENG**
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
This is a course that teaches the techniques for writing effective prose, (excluding fiction), in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor and with peers.

**ENC 3371 Rhetorical Theory for Technical Communication (3) AS ENG**
This course provides undergraduates exposure to key rhetorical theorists and concepts, placing special emphasis on the relationships between rhetor, audience, context, and medium. This course is open to all students and is not restricted or repeatable.

**ENC 3416 New Media for Technical Communication (3) AS ENG**
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
The study and production of digital media with special emphasis on emergent and evolving applications.

**ENC 3435 Rhetoric and Gaming (3) AS ENG**
This course applies different theoretical lens to broaden students’ understandings of videogames. Students familiarize themselves with the major genres of writing predominant in the videogame industry. Students work together to design and implement a game.

**ENC 4218 Visual Rhetoric for Technical Communication (3) AS ENG**
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
The study and production of visual rhetoric with special emphasis on print and digital document design and technical graphics.

**ENC 4260 Advanced Technical Writing (3) AS ENG**
PR: ENC 2210, or ENC 3310
Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.

**ENC 4311 Advanced Composition (3) AS ENG**
PR: ENC 3310
Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.

**ENC 4931 Selected Topics in Professional and Technical Writing (3) AS ENG**
PR: ENC 3250, ENC 2210, or ENC 3310
Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, writing in the medical fields, and writing for the social sciences. May be taken twice for credit with different topics.

**ENC 4940 Professional/Technical Communications Internship (3) AS ENG**
Supervised work-and-learning experience in professional and technical communications under the direction of a University faculty member and an employee of a participating firm. Repeatable one time for 3 credit hours.

**ENG 3014 Introduction to Literary Methodology (3) AS ENG**
PR: ENC 1101 and ENC 1102.
This course prepares English majors and minors with the basic critical and technical skills and understanding for subsequent literary study in 3000- and 4000-level courses towards the major. Substantial writing. Required of LIT majors. Recommended during first 2 semesters of LIT major.

**ENG 3113 Film as Narrative Art (3) AS ENG**
This course will examine the role of narrative as it appears in national and international cinema and study different theoretical and historical perspectives of cinematic narrative and cinematic techniques and interpretation.

**ENG 4013 Literary Criticism (3) AS ENG**
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature. Required for Literature majors. Recommended before 4000-level literature courses.

**ENG 4060 History of the English Language (3) AS ENG**
The evolution of language from Anglo-Saxon through Middle English to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.

**ENG 4674 Film and Culture CPST WRIN 6AC (3) AS ENG**
Students will be introduced to key concepts and techniques of Film Studies, including the history of film; an examination of film genres; an overview of foreign cinema; and the study of issues of class, race, gender, and sexuality.

**ENG 4906 Individual Research (1-4) AS ENG**
Directed study in special projects.

**ENG 4907 Directed Reading (3) AS ENG**
Readings in special topics.

**ENG 4935 Honors Seminar I (3) AS ENG**
CR: ENG 4936.
Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.
problem plays
A study of from five to eight of Shakespeare's
student's ability to read and interpret the text.
with
comedies, histories, and early tragedies, ending
A study of from five to eight of Sha
Owen, Auden, O'Casey, and others.
Joyce, Lawrence, Huxley, Woolf, Forster, Waugh,
writers as Eliot, Yeats, Thomas, Conrad, Shaw,
Survey of poetry, drama, and fiction of such
prose, and drama.
Victorian and Edwardian periods, including poetry,
letters; a survey of representative figures of the
Romantic thinking in contemporary affairs and
The poetry and poetics of the Romantic figures
Pope, Swift, Johnson, Boswell, and Goldsmith.
Literature, including such figures as Donne,
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 3215 Studies in 17th and 18th Century British
Literature (3) AS ENG
This is a topics course focusing on British
Literature primarily of the years 1800-1900. It
satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.
ENL 3217 Studies in 19th Century British
Literature (3) AS ENG
This is a topics course focusing on British
Literature in the years 1780-1800. It
satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.
ENL 3220 British Literature 1780-1900 (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 3221 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 3223 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 3224 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 CAHU HHCP 6AC (3) AS ENG
This course introduces students to at least six of
Shakespeare's plays. The course will focus on
artistic elements of the plays; the political, social,
and intellectual milieu of the period; as well as
issues of class, race, and gender. Will not count
toward English major.
ENL 4112 Eighteenth-Century British Novel (3) AS ENG
This course studies exemplary British novels from the eighteenth century, the distinctive literary
features of the novel in this formative period, and
the critical questions surrounding the emergence
of this genre.
ENL 4122 19th Century British Novel (3) AS ENG
Study of the 19th-century British novel, including
works by novelists such as Thackeray, Dickens,
Eliot, Hardy, Trollope, and others. Analysis of the
characteristics of the novels and their historical,
social, cultural, and political contexts.
ENL 4132 British Novel: Conrad to the Present (3)
AS ENG
A critical study of British fiction from 1900 to the
present, with emphasis on such writers as Conrad,
Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess,
Murdock, Golding, and others.
ENL 4203 Introduction to Old English (3) AS ENG
This course will give students a reading
knowledge of the Old English language and
introduce them to its literature.
ENL 4303 Selected British Authors (3) AS ENG
The study of two or three major figures in British
Literature. The course may include such writers as
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
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.
ENL 4501 Studies in Medieval and Early Modern
Literature (3) AS ENG
This course will examine specific eras, genres,
and authors within medieval and early modern
literature.
ENL 4931 Studies In British Literature And Culture
(3) AS ENG
PR: ENC 1102
This course examines a particular topic or theme, varying with individual selection, in the British literary tradition.

**ENT 3003 Principles of Business in Entrepreneurship (3) BA MKT**
Introduction to business principles in entrepreneurship for non-business and non-industrial engineering students. Provides basic foundation in entrepreneurship, finance and accounting. Helps students to understand the role of entrepreneurship in society.

**ENT 4014 New Venture Formation (3) BA MKT**
PR: ENT 3003 or (MAN 3025 and ACG 2021)
Course for Business and Industrial Engineering students. Integrates business principles with entrepreneurship and venture creation. Synthesizes theoretical and practical aspects of entrepreneurial new business creation.

**ENT 4024 Small Business Management - Entrepreneurship (3) BA MAN**
Study the factors involved in starting and managing a small to medium sized company. Emphasis on conduct of pre-business feasibility, start-up of business, successful management of firm, and options for succession or termination.

**ENT 4424 Fundamentals of Venture Capital and Private Equity (3) BA MKT**
PR: ENT 4014.
Elective course for business and industrial engineering students. Integrates basic principles of venture financing through an examination of both venture capital and private equity in entrepreneurial new business creation and growth.

**ENV 2073 Global Warming: Science and Politics of a Contemporary Issue CANP (3) EN EGX**
Non-technical introduction to the greenhouse effect and how human activities purportedly affect the global climate. Investigation of the relationship between science and the political process. Proposed policies to address global warming.

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

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

**ENV 4351 Solid Waste Engineering (2) EN EGX**
Introduction to the 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: EGN 3353
An introduction to municipal water supply and wastewater treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

**ENV 4552C Environmental Unit Operations and Processes (3) EN EGX**
PR: ENV 4001, 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 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 5103 Air Pollution Control (3) EN EGX**
PR: EGN 3353.
Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

**ENV 5334 Hazardous Waste Management and Remedial Action (3) EN EGX**
PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558;
Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations; site control; those aspects of treatment that are unique to remedial action.

**ENV 5345 Solid Waste Control (3) EN EGX**
Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal; thermal treatment.

**ENV 5504C Environmental Engineering Processes (3) EN EGX**
PR: ENV 4001, ENV 4004L, ENV 4417
Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and process used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. This course is restricted
to majors, has no external laboratory section associated with the course, is not available on an S/U basis only, is not cross-listed with another department or college.

**ENY 3004C Introduction to Entomology (4) AS BIN**
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.
An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

**ENY 5505C Aquatic Entomology (4) AS BIN**
PR: ENY 3004C and CHM 2210 and MAC 1105 or higher-level MAC course
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.

**EPD 5051 Advanced Theories in Motor and Physical Disabilities (3) ED EDS**
PR: EEX 4012
Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

**EPD 5321 Educational Strategies for Physically and Multi-handicapped Students (3) ED EDS**
PR: EPD 5051.
Educational management of students with cerebral palsy, motor disabilities and multi-handicapped conditions including rehabilitation and other community services.

**ESC 2000 Introduction to Earth Science CANP SGEN (3) AS SGS**
An introductory course in the Earth Sciences. Topics covered include geology, weather, climate change, ocean dynamics, and the history of the Earth, the solar system and beyond

**ESC 3210 Earth and Space Science Fundamentals (4) AS SGS**
This course is designed to further develop science teachers’ understanding of the earth and space sciences commonly found in 6-9 school curricula, with a focus on effective earth and space sciences pedagogy and instructional practice

**ESC 4705 Geology and Development of Modern Africa (3) AS SGS**
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 politics.

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

**ESE 5344 Classroom Management for a Diverse 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 2009 Introduction to Engineering Programming (3) EN EGS**
PR: MAC 2281 with a minimum grade of C (C- not accepted).
A problem based approach to describing programming concepts using Visual Basic for Applications and MS Excel.

**ESI 4221 Statistical Quality Control (3) EN EGS**
PR: EGN 3443.
This course will present the theory and methods of quality monitoring including process capability, control charts, acceptance sampling, quality engineering, and quality design.

**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 3443.
Probabilistic models in Operations Research. Discrete and continuous time processes, queuing models, inventory models, simulation models, Markovian decision process and decision analysis.

**ESI 4326 Engineering the Supply Chain (3) EN EGS**
Students learn tools to design supply chain networks considering all drivers including: facilities, transportation, inventory, information, sourcing and pricing, as well as techniques to support design, planning and operational decisions in the supply chain.

**ESI 4523 Systems 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 4606 Engineering Analytics I (3) EN EGS**

PR: EGN 3443, ESI 4312.

Engineering Analytics I covers the leading techniques that help to identify and manage key data from business processes. Topics covered include techniques for understanding the meaning of data; cleaning up data; transforming data into information.

**ESI 4607 Engineering Analytics II (3) EN EGS**

PR: ESI 4606.

Engineering Analytics II covers important techniques that help to identify and manage key data from industrial engineering processes. Topics covered include data exploration; date visualization; and large-scale engineering system decomposition.

**ESI 4620 Design of Industrial Information Systems (3) EN EGS**

PR: EGN 3443 and ESI 2009 or COP 2510, or equivalent.

The objective of this course is to introduce students to the design and implementation of information systems, with special emphasis on the integration of information flows and databases with the control of manufacturing and service type systems.

**ESI 4905 Independent Study (1-5) EN EGS**

Specialized independent study determined by the student's needs and interests.

**ESI 5219 Statistical Methods For Engineering Managers (3) EN EGS**

Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.

**ESI 5236 Reliability Engineering (3) EN EGS**


**ESI 5306 Operations Research For Engineering Management (3) EN EGS**

PR: ESI 5219 or equiv.

Linear programming, non-linear programming, queuing, inventory, network analysis.

**ESI 5522 Computer Simulation (3) EN EGS**

PR: ESI 4521 or equiv

Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

**ETG 3612 Operations Management (3) EN ESB**

PR: MAC 1105

CR: STA 2023

This course examines global strategies, project management, forecasting, location, scheduling, human resources, quality and math models as applied to the design and management of industrial operations.

**ETG 3931 Special Topics in Information Technology (1-3) EN ESB**

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

**ETG 3933 Selected Topics in Technology (1-3) EN ESB**

Selected Topics in Technology I is repeatable for 12 credit hours.

**ETG 3934 Selected Topics in Technology II (1-3) EN ESB**

Selected Topics in Technology II is repeatable for 12 credit hours.

**ETG 4930 Special Topics in Information Technology (1-3) EN ESB**

Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

**ETG 4931 Special Topics in Technology I (1-3) EN ESB**

Special Topics in Technology.

**ETG 4932 Special Topics in Technology II (1-3) EN ESB**

Special Topics in Technology.

**ETI 4116 Industrial Quality Control (3) EN ESB**

PR: STA 2023

This course teaches the students the fundamental concepts of managing a quality assurance system.

**EUH 2011 Ancient History I CAHU HHCP (3) AS HTY**

An introductory survey of ancient history. EUH 2011 treats the ancient Near East, Egypt and Greece from the origins of civilization to the Hellenistic kingdoms following the death of Alexander the Great.

**EUH 2012 Ancient History II CAHU HHCP (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. 285.

**EUH 2021 Byzantine Empire (3) AS HTY**

A thematic survey of the history of the medieval Byzantine Empire and neighboring civilizations from ca. 284-1453.

**EUH 2022 The Medieval West CAHU HHCP (3) AS HTY**

An introductory survey of medieval history. EUH 2022 examines the European and Mediterranean worlds, exploring the evolution and transformation of beliefs, institutions and social structures, ca. 500-1500.

**EUH 2030 Modern European History I CAHU HHCP (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 CAHU HHCP (3) AS HTY**
This course explores the social, political and economic forces which have shaped Europe over the past two hundred and fifty years.

**EUH 3142 Renaissance and Reformation (3) 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 (3) AS HTY**
A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

**EUH 3185 Viking History (3) 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 (3) AS HTY**
A study of the daily life and attitudes of the medieval nobleman, peasant, townsman, and the agrarian-urban economy and society which affected their lives.

**EUH 3189 Medieval Politics (3) AS HTY**
An inquiry 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 (3) AS HTY**
A history of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

**EUH 3205 History of Nineteenth Century Europe (3) AS HTY**
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

**EUH 3206 History of Twentieth Century Europe (3) AS HTY**
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

**EUH 3401 Classical Greece (3) AS HTY**
A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.

**EUH 3402 Age of Alexander (3) 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 (3) 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 (3) AS HTY**
A study of Imperial Roman 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 3462 German History 1870 to the Present (3) AS HTY**
A study of the most important themes of European history since the Grußing Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

**EUH 3501 British History to 1688 (3) AS HTY**
A study of major developments in British history from the 15th century to 1668.

**EUH 3502 British History 1688 to Present (3) AS HTY**
A study of the major themes of British history since the Grußing Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

**EUH 3575 History of Imperial Russia, 1689-1917 (3) 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 (3) 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.

**EUH 3676 History of Orthodox Religion (3) AS HTY**
This course provides an overview of the history and theology of Orthodox Christianity. It examines the rise of the early Christian church in the first century AD and explores the eastern Christian Church through the fifteenth century AD.

**EUS 3000 Europe (3) AS GIA**
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 (3) AS GIA
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 CANP SG (3) AP GEP
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 SGS
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 2217 Energy, Environment and Sustainability CANP (3) EN GEP
PR: MAC 1105
A critical analysis of energy sources, distribution and consumption using scientific methodology. Attributes of commonly used energy sources including environmental impact. Social, political and economic implications from a global perspective.

EVR 2861 Introduction to Environmental Policy (3) AS SGS
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 CPST (3) AS GSG
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 4033 Environmental Regulation (3) AS GSG
PR: EVR 2001
An in-depth review of the federal environmental regulatory structure of the United States, governing air and water quality, waste disposal, safety, and natural resource use and conservation.

EVR 4051 Environmental Field Methods (3) AS SGS
PR: STA 2023 or QMB 2100
This course will provide an overview of aspects of conducting environmental research, field experience, the critical analysis of environmental data, and learning the fundamentals of producing a scientifically sound report.

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

EVR 4114 Climate Change CPST (3) AS SGS
PR: EVR 2001
The objective is to provide an understanding of the scientific principles pertaining to global and regional climate change. Both mechanisms causing the change and human impacts on climate will be examined. Not restricted to majors and not repeatable.

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

EVR 4807 Sustainable Healthy Environments (3) AS SGS
This course examines the human health impacts of our daily activities in a modern world, with a focus on more sustainable options for improving human health.

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

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

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

EVR 4921 Environmental Science and Policy Seminar (1) AS SGS
A topical reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy.

EVR 4930 Selected Topics (1-3) AS SGS
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of Environmental Science, Policy, Ethics and Law included.

EVR 4940 Environmental Science Internship (3-12) AS SGS
The purpose of this course is to promote the student’s understanding and application of environmental science and policy within a practical organizational context. Contract and report required.
EVT 4651 Equity in Schools and the Workplace
CPST 6AC (3) ED EDV
Examine equity issues related to gender, race, culture, economics in schools/workplaces. Explore legal, ethical, psychological, social perspectives including stereotyping, prejudice and discrimination for personal implications and systems change.

EVT 4940 Internship: Industrial-Technical Education (1-12) ED EDV
CR: EVT 4936
One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours.

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

EXP 4104 Sensory Processes (3) AS PSY
PR: PSY 3213 with a grade of C or better
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
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
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
Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

EXP 4640 Psychology of Language (3) AS PSY
PR: PSY 3213
Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. The current status of theory and research in the field will be covered.

EXP 4680C Cognitive Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better
Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.

FIL 1002 Introduction to Film Studies CAHU HHCP (3) AS HCS
Students will be introduced to key concepts and techniques of Film Studies, including the history of film; an examination of film genres; an overview of foreign cinema; and the study of issues of class, race, gender, and sexuality.

FIL 3011 The Film As Mass Com II: Rhetor & Stylis (3) AS COM
A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films.

FIL 3052 Foundations of Film & New Media (3) AS HCS
PR: FIL 1002
Offering an advanced introduction to the first 65 years of international film history, this course joins questions of aesthetic and narrative practice to explorations of various film genres, film movements, and national cinemas.

FIL 3077 Contemporary Film & New Media (3) AS HCS
PR: FIL 1002
Offering an advanced introduction to global motion picture practice after 1959, this course explores the aesthetics of film and new media across various genres, movements, and national contexts.

FIL 3427C Beginning Film (3) FA ART
Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

FIL 3854 Film Art WRIN 6AC (3) FA ART
The course is an in-depth study of film language and history, focusing on its unique social, political and cultural significance. Students explore the heterogeneous nature of film by examining its role in popular culture and visual art discourse.

FIL 4050 Social History of the Film, 1945 to the Present (3) AS COM
PR: MMC 2100 and MMC 3602
The development of the film from 1945 to the present.

FIL 4433C Advanced Film (3) FA ART
PR: FIL 3845
More advanced projects in filmmaking to further develop works both technically and conceptually.

FIL 5469C Cinematography (4) FA ART
PR: PGY 4520C
Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.

FIN 2100 Personal Finance CAQR (3) BA FIN
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 3005 Fundamentals of Business Finance (3) BA FIN
PR: ACG 3074
Designed for non-business majors introducing basic financial concepts. The course provides an understanding of the basic concepts and techniques that are required to make informed decisions.

FIN 3007 Fundamentals of Business Finance (3) BA FIN
PR: ACG 3074
Designed for non-business majors introducing basic financial concepts. The course provides an understanding of the basic concepts and techniques that are required to make informed
decisions about how the funds generated by a firm are used.
FIN 3233 Money and Banking (3) BA FIN
PR: ECO 2013.
Examines the structure and operations of the U.S. monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.
FIN 3403 Principles of Finance (3) BA FIN
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 4303 Financial Institutions and Markets (3) BA FIN
PR: FIN 3403.
A study of financial institutions and their roles in the capital markets; includes the savings allocation, investment, and financial decision making processes.
FIN 4324 Bank Management (3) BA FIN
PR: FIN 3403.
Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem-solving techniques to major problem areas in banking.
FIN 4412 Working Capital Management (3) BA FIN
PR: FIN 3403.
An examination of short-term financial management: that is, policies and decisions related to managing the current operations of a firm. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.
FIN 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 4533 Financial Option & Futures (3) BA FIN
PR: FIN 4504.
This course covers financial futures and options markets, the fundamental properties and pricing principles of these instruments, as well as hedging and risk management strategies using such instruments. The course is not repeatable for credit.
FIN 4560 Applied Securities Analysis (3) BA FIN
PR: FIN 4504.
In this course students manage a portfolio of real money, which provides them hands-on experiences in stock analyses, decision making, and effective communication. Students also network with investment professionals. Repeatable for up to 6 credit hours.
FIN 4905 Independent Study (1-3) BA FIN
Specialized independent study determined by the student's needs and interests.
FIN 4915 Independent Research (1-3) BA FIN
The research project will be mutually determined by the student and instructor.
FIN 4934 Selected Topics in Finance (1-3) BA FIN
Topics to be selected by instructor and department chairperson on pertinent finance issues.
FIN 4940 Finance Internship (3) BA FIN
The course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.
FIN 4970 Finance Honors Thesis (3) BA FIN
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to
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develop explanations or solutions to academically interesting business problems or opportunities.

FLE 4290 Technology in the Foreign and Second Language Classroom (3) ED EDI
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 EDI
CPR: EDG 4620
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 EDI
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 EDI
This course is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for students with Limited English Proficiency.

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School (3) ED EDI
PR: FLE 4314
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 4370 Practicum in Foreign Language Teaching in the Secondary School (3) ED EDI
CR: FLE 4314 or FLE 4333
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 CPST (3) ED EDI
Synthesis of teacher candidate's courses in complete college program.

FLE 4940 Internship: Foreign Language Education (1-12) ED EDI
One full semester of internship in a public or private school.

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

FLE 5291 Technology in the Foreign Language Classroom (3) ED EDI
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 EDI
This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.

FLE 5331 Methods of Teaching Foreign Language and ESOL in the Secondary School (3) ED EDI
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 EDI
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 LEP students.

FLE 5366 ESOL Education in Content Areas (3) ED EDI
Enables participants to meet the special linguistic & cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.

FLE 5895 Dual Language Education (3) ED EDI
This course is for teachers who are interested in bilingual education. The aim is to deconstruct the philosophical, theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.

FLE 5946 Practicum in Foreign Language/ESOL Teaching (3) ED EDI
PR: FLE 5313
CR: FLE 5331
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Language</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>FRE 2241</td>
<td>Spoken French in Cultural Context</td>
<td>(3)</td>
<td>AS WLE</td>
<td>FRE 2240 or equivalent.</td>
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<tr>
<td>FRE 2240</td>
<td>Intermediate Spoken French in Cultural Context</td>
<td>(3)</td>
<td>AS WLE</td>
<td>FRE 2200 or equivalent.</td>
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<tr>
<td>FRE 2201</td>
<td>French IV (3) AS WLE</td>
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<td>FRE 2200</td>
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<td>FRE 1170</td>
<td>Overseas Study</td>
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<tr>
<td>FRE 1121</td>
<td>Beginning French II (4) AS WLE</td>
<td>(4)</td>
<td>AS WLE</td>
<td>FRE 1120 or equivalent.</td>
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</tbody>
</table>
| FRE 1120 | Beginning French I (4) AS WLE | (4) | AS WLE | |}

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 2100 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 for workshops in professional interpreting.

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

**FOL 5906 Directed Study (1-3) AS WLE**
PR: FOL 4101 or equivalent.

**FOS 4041 Food Quality and Composition (3) PH CFH**
PR: HUN 2201
Introduction to food quality; the chemical, physical, qualitative changes with storage, preservation, processing, and production; techniques and instrumentation used to determine composition of foods; and importance of food safety. Course is not restricted to majors and is not repeatable for credit.

**FRE 1120 Beginning French I (4) AS WLE**
The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

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

**FRE 1170 Overseas Study-Elem. French (4) AS WLE**
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 2200 or equivalent.
Readings in French on the intermediate level.

**FRE 2240 Intermediate Spoken French in Cultural Context (3) AS WLE**
PR: FRE 2241 or equivalent
Continuing development of intermediate conversational skills through a comparative cultural approach. Students build vocabulary, oral syntax, and enhance fluency while examining socio-cultural realities in France and Francophone countries.

**FRE 2241 Spoken French in Cultural Context (3) AS WLE**
PR: FRE 1121
Development of basic conversational skills in French through a wide variety of cultural context. Students build vocabulary, enhance listening comprehension and fluency in French as they examine socio-cultural realities and issues.

**FRE 2270 Overseas Study-Intro. French (1-6) AS WLE**
PR: Two semesters of university-level French

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

**FRE 3420 Written French in Cultural Context (3) AS WLE**
PR: FRE 2200 and/or FRE 2201
Development of writing skills in French through a wide variety of cultural context. Students analyze texts relating to descriptions of persons, places and events, films and fiction, publicity, and argumentation. Workshops facilitate their writing.

**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**
An intensive study-travel project in France.

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

**FRE 3502 The Francophone World: A Global Culture (3) AS WLE**
Offers an overview of the main French speaking cultures throughout the world outside 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 (3) AS WLE**
This is a film based course and technologically enhanced course which will look at cultural, socio-economic, political and gender issues in French speaking Africa. Course materials will be available in English and French.

**FRE 4421 Advanced Written French in Cultural Context (3) AS WLE**
Development of various styles of writing in cultural context relating to art, social science and science. Analysis of descriptive, narrative, expository and argumentative writing. Refinement of written French including vocabulary, structure and style.

**FRE 4471 Advanced Overseas Study (1-6) AS WLE**
PR: FRE 3470
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

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
An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

FRT 3001 Great French Love Stories in Translation WRIN 6AC (3) AS WLE
PR: ENC 1101 and 1102 or their equivalent.
A survey of the great love stories that French literature gave to the world from the Middle Ages to the 21st century and that contributed to the evolution of love, influencing not only other literatures but also other cultures throughout history.

FRT 3140 French Literary Masterpieces in English Translation WRIN 6AC (3) AS WLE
PR: ENC 1101 and 1102 or their equivalent.
A survey of the major literary works of France, tracing not only literary but also intellectual and cultural history from the Middle Ages to the present.

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

FRW 4101 Introduction to French Drama and Poetry (3) AS WLE
PR: FRE 3234.
A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Hugo, and Balzac.

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
PR: FRW 4101.
Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.

FRW 5286 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 4011.
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 4011.
A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.

FRW 5445 18th Century Literature (3) AS WLE
PR: FRW 4101.
The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5535 Romanticism and Early Realism (3) AS WLE
PR: FRW 4101.
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 4011.
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
Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.

FRW 5755 African and Caribbean Literature (3) AS WLE
An overview of the main representative literary works in French from the francophone world including 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
Study of an author, movement or theme.

GEA 2000 World Regional Geography CAGC (3) AS SGS
Comparison and analysis of representative regions of the world, with emphasis on cultural, political, economic, environmental, and physical diversity.
**GEB 4097 Professional Development:**

Career communication. Such topics as: negotiations, development focusing on interpersonal to learn the distinct features of profession skills necessary in thei...
Topics are at the discretion of the instructor. This course will offer lower level topics to attract new majors.

GEO 3164C Research Methods in Geography (3) AS SGS
PR: STA 2023 or STA 2122 or QMB 2100.
Statistical analysis in geographic research.

GEO 3602 Urban Geography (3) AS SGS
PR: GEO 2400
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 (3) AS SGS
PR: GIS 3006 and GEO 3164C
Selected topics in various geographic techniques and methodologies and their application.

GEO 4204C Topics in Physical Geography (3) AS SGS
PR: GEO 2200
Intensive study of a topic selected from physical geography.

GEO 4244 Tropical Meteorology (3) AS SGS
PR: GEO 2200, one approved Calculus course
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, sea-breeze convergence and Florida climatology, surface energy exchange, land use change and its impact on tropical climates.

GEO 4265 Soil Genesis and Classification (3) AS SGS
PR: GEO 2200
A systematic study of soil genesis and classification with a focus on North American and Florida soils.

GEO 4280C Hydrology (3) AS SGS
PR: GEO 2200
Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrologic analyses to water-resource management issues are examined.

GEO 4284 Water Resources Management (3) AS SGS
Geographic perspectives on water resources management at the global, national and local scale, including political, socio-economic, technical and scientific aspects.

GEO 4300 Biogeography (3) AS SGS
PR: GEO 2200 and GEO 3164C.
Analysis of the present and past distribution of species at an intermediate to large spatial scale.

GEO 4340 Natural Hazards (3) AS SGS
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, tsunami, and volcanoes.

GEO 4372 Global Conservation 6AC (3) AS SGS
The distribution, exploitation, and conservation of physical and human resources, ecology.

GEO 4379 Geographic Perspectives on Environment (3) AS SGS
PR: GEA 2000C
This course examines human ideas about the natural environment and the fundamental character of the human-nature relationship across space and time through a survey of literature (geography, environmental history, ethics) on environmental perspectives.

GEO 4421 Cultural Geography (3) AS SGS
PR: GEO 2400
The interrelationships of culture and nature, from ancient times to the present.

GEO 4471 Political Geography (3) AS SGS
PR: GEO 2400
The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4502 Economic Geography (3) AS SGS
PR: GEO 2400
The spatial organization of economic production, consumption, and exchange systems.

GEO 4604 Topics in Urban Geography (3) AS SGS
PR: GEO 3602
Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

GEO 4700 Transportation Geography (3) AS SGS
PR: GEO 2400 and GEO 3164C
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 SGS

GEO 4910 Individual Research (1-4) AS SGS

GEO 4930 Selected Topics (1-3) AS SGS
Topics are at the discretion of the instructor. This course will offer upper level, advanced topics in all aspects of Geography. Course can be repeated for credit as long as the title is different, for up to 8 credits.

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

GER 1120 Beginning German I (4) AS WLE
Development of basic skills in listening and reading comprehension, speaking and writing of German.

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

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 3333 German Language & Culture through Film (3) AS WLE
PR: GER 2200 or above.
This is a German conversation course which allows students to improve upon their German speaking, reading, and listening skills. German films will be used as the basis for oral communication practice. The language of instruction is German. German speaking, reading, and listening skills. German films will be used as the basis for oral communication practice. The language of instruction is German.

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
An introduction to the German language in ordinary business transactions.

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

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

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

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

GER 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.

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

GET 3522 Fantastic Films of Early German Cinema (3) AS WLE
An overview of early 20th century German films with emphasis on horror, science fiction, and fantasy films. Course offers insights into Germany’s artistic, intellectual, and social history, as well as general film history and criticism. Taught in English.

GET 3524 German Popular Film (3) AS WLE
Overview of films with significant popular success at German box office from 1920s to present. Films will be discussed in the context of Germany’s artistic, intellectual, and social history as well as general film history and criticism. Taught in English.

GET 4523 New German Cinema to Present (3) AS WLE
An overview of post-1945 Ger films with emphasis on films from 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.

GET 4528 German Directors in Hollywood CPST HHCP (3) AS WLE
This course examines films by German émigré directors produced in Hollywood throughout the twentieth and twenty-first centuries.

GEW 4100 Survey of German Literature I (3) AS WLE
Course will examine a variety of texts from the 9th to the early 19th 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 (3) AS WLE
PR: GER 2200 or above
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.

GEY 4900 Directed Study (1-3) AS WLE

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

GEW 5606 Faust (3) AS WLE
Sources, form, content, and literary significance of Urfaust and Faust.

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

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

GEY 2000 Introduction to Gerontology CASB (3) BC 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 Resources for the Older Adult (3) BC GEY
This class 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 Changes and Aging (3) BC 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 Sociological Aspects of Aging CASB (3) BC GEY
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophical, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, and cross-cultural perspective.

GEY 4101 Aging in Special Populations (3) BC GEY
This course explores how special populations (centenarians; the severely mental ill, homeless older adults; LGBT older adults; older adults with HIV/AIDS; and older offenders) age differently with specific attention paid to their health care needs.

GEY 4102 Aging in Modern Literature and Film (3) BC GEY
This class focuses on late 20th century and early 21st century literature and film to explore gender, ethnicity, creativity, social class, caregiving, and many other critical aging issues. Not restricted to majors.

GEY 4231 Elder Abuse and Neglect (3) BC GEY
The purpose of this class is to provide students with a basic understanding of the problem of elder abuse and neglect found within the community and in congregate facilities. Interdisciplinary approaches to intervention are emphasized.

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

GEY 4360 Gerontological Counseling (3) BC 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) BC GEY
PR: STA 2122 or equivalent with a grade of C or better.
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 4475 Program Evaluation in an Aging Society (3) BC GEY
PR: GEY 2000
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluate aging services programs and organizations.

GEY 4507 Understanding Policies and Practices of Long Term Care CPST (3) BC GEY
PR: GEY 2000
This course provides principles for managing disability in a variety of settings. Topics include historical context, experience of disability, and challenges of providing care for disabled persons. Course is repeatable and not restricted to GEY majors.

GEY 4508 Health Care Operations (3) BC GEY
PR: GEY 4507, ACG 2021, each with a grade of C or better.
This course addresses the health care operations of long-term care facilities. This course is for students in the BS in long-term care administration, but not limited to GEY majors. The course is repeatable for credit.

GEY 4509 Regulatory and Clinical Operations (3) BC GEY
PR: GEY 4508, ACG 2021, each with a grade of C or better.
This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management
theory and concepts. The course is not repeatable and not restricted to GEY majors.

**GEY 4520 Legal Aspects of Health Care Administration (3) BC GEY**
This web-based course presents an overview of the legal issues facing the health care industry and provides special emphasis on long-term care settings. It provides students with a basic working knowledge of legal system and court processes.

**GEY 4608 Alzheimer’s Disease Management (3) BC 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 CASB (3) BC 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 Race, Ethnicity and Aging (3) BC GEY**
This course addresses how people of different ethnic and racial groups age, in the physical, psychological, and social context. Topics include cultural competence and sensitivity. Not restricted; not repeatable.

**GEY 4629 Women and Aging (3) BC GEY**
Because of longer life expectancy and other factors, women make up a disproportionate share of older adults in the United States. This course examines older women from a feminist perspective, is open to all majors, and is not repeatable for credit.

**GEY 4635 Business Management in an Aging Society CPST (3) BC 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 CASB (3) BC 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 Aging CPST (3) BC GEY**
A consideration of the major ethical and legal issues in aging and their implications for policies, priorities, and services.

**GEY 4690 Senior Seminar in Gerontology (3) BC GEY**
In this senior level capstone course, students discuss important scientific and professional issues in the field of gerontology, integrating work from prior courses, and practicing professional skills. Restricted to majors. Not repeatable for credit.

**GEY 4900 Directed Readings (1-3) BC GEY**
A reading program with topics in gerontology conducted under the supervision of a faculty member.

**GEY 4917 Directed Research (1-4) BC GEY**
This course will provide Undergraduate Students with an opportunity to engage in an agreed upon research project under the supervision of a professor. The course is open to any major and is repeatable for credit.

**GEY 4935 Special Topics in Gerontology (3) BC 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) BC GEY**
Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (6 hours), or to a nursing home if in the BS program (9 hours).

**GEY 5476 Program Evaluation in an Aging Society (3) BC GEY**
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluation aging services programs and organizations.

**GEY 5501 Health Care Operations in Long Term Care (3) BC GEY**
Addresses the health care operations of long term care facilities with a special emphasis on nursing homes and assisted living facilities. Specifics include leadership management of people resources, physical plant and quality improvement.

**GEY 5620 Sociological Aspects Of Aging (3) BC 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) BC 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) BC GEY**
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

**GIS 2010C Map Interpretation (3) AS SGS**
Analysis and synthesis of various types of maps and map projections.

**GIS 3006 Computer Cartography (3) AS SGS**
## COURSE DESCRIPTIONS

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<td>GLY 2010</td>
<td>Dynamic Earth: Introduction to Physical Geology CANP</td>
<td>3</td>
<td>AS SGS</td>
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<td>GLY 2000L</td>
<td>Essentials of Geology Laboratory</td>
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<td>GIS 5075</td>
<td>Global Positioning Systems (3) AS SGS</td>
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<td>Geographic Information Systems (3) AS SGS</td>
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<td>GIS 4043C</td>
<td>GIS for Non-Majors (3) AS SGS</td>
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<tr>
<td>GLY 2000</td>
<td>Earth and Environmental Systems (3) AS SGS</td>
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<tr>
<td>GLY 2930</td>
<td>Selected Topics in Geology (1-3) AS SGS</td>
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<tr>
<td>GLY 3402C</td>
<td>The Solid Earth: Plate Tectonics and Earth Structure (4) AS SGS</td>
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<tr>
<td>GLY 3401C</td>
<td>The Solid Earth: Petrology and Geochemistry (4) AS SGS</td>
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<tr>
<td>GLY 3311C</td>
<td>The Solid Earth: Petrology and Geochemistry (4) AS SGS</td>
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<tr>
<td>GLY 2030</td>
<td>Hazards of the Earth’s Surface: Environmental Geology CANP (3) AS SGS</td>
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<tr>
<td>GLY 2901</td>
<td>History of the Earth's Surface: Environmental Geology CANP (3) AS SGS</td>
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<tr>
<td>GLY 2051</td>
<td>Origins: From the Big Bang to the Ice Age (3) AS SGS</td>
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<tr>
<td>GLY 2073</td>
<td>Global Climate Change: A Geoscience Perspective CANP (3) AS SGS</td>
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<tr>
<td>GLY 2100</td>
<td>History of Life CANL (3) AS SGS</td>
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<td>GLY 2160</td>
<td>Geology of the National Parks CANP (3) AS SGS</td>
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<tr>
<td>GLY 3311C</td>
<td>The Solid Earth: Petrology and Geochemistry (4) AS SGS</td>
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<tr>
<td>GLY 2000L</td>
<td>Essentials of Geology Laboratory</td>
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<tr>
<td>GLY 2010</td>
<td>Dynamic Earth: Introduction to Physical Geology CANP</td>
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</tr>
</tbody>
</table>

**Notes:**
- PR: Pre-requisite courses.
- CANP: Course can be repeated for credit.
- AS SGS: Associate in Science degree.
- Majors: Provided for Majors.
- Non-Majors: Provided for Non-Majors.

**Course Descriptions:**
- **GLY 2000L Essentials of Geology Laboratory:**
  Fundamental concepts and skills of modern geology, including rock and mineral identification, analysis of geologic maps, field analysis, and applications of computers in geology. Required field trip.
- **GLY 2010 Dynamic Earth: Introduction to Physical Geology CANP:**
  A first course in geology emphasizing the Earth's composition, structure, and dynamics. Lectures/activities include but are not limited to plate tectonics, earthquakes, volcanism, glaciation, global warming, shorelines, and natural resources.
### COURSE DESCRIPTIONS

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

**GLY 3720C The Fluid Earth (4) AS SGS**
- **PR:** GLY 2000L; MAC 2311 and MAC 2312 or equivalent; CHM 2045 and CHM 2046; PHY 2048 and PHY 2048L.
  - Physical, chemical and biological processes affecting fluids of the lithosphere, oceans and atmosphere. Water as a geologic medium and global entity. A systems approach. Lecture/Lab.

**GLY 3850 Geology For Engineers (3) AS SGS**
- **PR:** GLY 2000L; MAC 2281.
  - 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 (3) AS SGS**
- **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 (3) AS SGS**
- **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 SGS**
- **PR:** GLY 2000L, GLY 3552C, BSC 2010.
  - The study of "deep time", including how it is measured, how it is correlated over the Earth's surface, and how important physical, biologic, and chemical geologic processes have varied with time. Lec.-Lab.

**GLY 4310 Petrology (3) AS SGS**
- **PR:** GLY 2000L; GLY 3552C, BSC 2010.
  - The formation of igneous and metamorphic rocks in varying tectonic environments. Emphasis is placed on the identification of igneous and metamorphic rocks in hand specimens and thin sections.

**GLY 4324C Physical Volcanology (4) AS SGS**
- **PR:** GLY 3311C, MAC 2241 or MAC 2311 or MAC 2281.
  - Physical volcanology explores the nature of volcanism on Earth and nearby planets. Topics in magma production and ascent, eruption dynamics, volcanic hazards, and volcano monitoring will be covered in lecture, laboratory, and independent exercises.

**GLY 4462 Geomechanics (3) AS SGS**
- **PR:** GLY 2010 or equivalent, PHY 2048 and 2049 or equivalent.
  - Overview of the mechanical behavior of earth materials including general theory, an introduction to soil mechanics, and introduction to rock mechanics. Includes two field trips to observe geomechanical issues in Florida and modern methods of rock testing.

**GLY 4480 Seismology (4) AS SGS**
- **PR:** Introductory geology for majors, calculus and calculus-based physics as required for geology majors.
  - Comprehensive introduction to theoretical and observational seismology, use of seismic waves and earthquake patterns to study earth structure, seismic hazard and risk mitigation, earthquake prediction, and techniques for the analysis of seismic data.

**GLY 4554C Sedimentary Record 2: The Earth’s Surface (4) AS SGS**
- **PR:** At least one course in Geology with lab.
  - Principles of weathering, erosion, production, and transport of sediment on the earth’s surface, and the resulting geomorphology. Modern sedimentary environments and the process-response systems that govern them. Lecture/lab.

**GLY 4734 Beaches and Coastal Environments (3) AS SGS**
- 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, policy, and environmental law.

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

**GLY 4822C Fluid Earth 2: Hydrogeology (4) AS SGS**
- **PR:** GLY 2000L, GLY 3720C, PHY 2048, MAC 2281.
  - CR: MAC 2282.
  - Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.

**GLY 4866 Computational Geology (3) AS SGS**
- **PR:** One semester of calculus and physics.
  - Geologic problems and problem-solving from a mathematical perspective. The intersection of
COURSE DESCRIPTIONS

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general geology and math. Calculations and error analysis. Not available as S/U for geology majors; S/U available for others.

GLY 4905 Independent Study (1-3) AS SGS
Specialized independent study determined by the student's needs and interests.

GLY 4915 Undergraduate Research (1-3) AS SGS
Individual experimental investigations with faculty supervision.

GLY 4920 Geology Colloquium (1) AS SGS
Weekly topical lectures by faculty, graduate students and invited speakers.

GLY 4921 Scientific Communication WRIN 6AC (3) AS SGS
A writing-intensive FKL capstone course designed to develop students' skills in communicating scientific ideas through the written word, spoken word, and through graphical displays of information (graphs, diagrams).

GLY 4930 Selected Topics in Geology (1-4) AS SGS
Each topic is a course under the direction of a faculty member. All areas of geology included.

GLY 4946L Practical and Applied Geology: Teaching Experience (1) AS SGS
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 SGS
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 SGS
Hands-on course designed to teach the basic skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4949L Practical and Applied Geology: Computational Experience (1) AS SGS
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 5752 Geological Field Excursion (2) AS SGS
Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop 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 SGS
PR: STA 2023 or equivalent
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.

GLY 5932 Selected Topics in Geology (1-4) AS SGS
Each topic is a course under the direction of a faculty member. All areas of geology included.

GRA 2206C Typography (3) FA ART
This foundational course explores the structure of letter forms and lettering. This course provides information about the importance of type in the context of graphic design and application for printed and electronic media.

GRA 3104 Computer Graphics (3) FA ART
This course is the continuation of Graphic Design I. The coursework emphasizes the utilization of electronic media for visual problem solving. Students will increase their skill with web based design and photo-editing software.

GRA 3110 Graphic Design I (3) FA ART
This course explores the application of formal design principles to visual problem solving through typography, layout, and web design. Students will apply conventional and electronic tools and techniques to the graphic design process.

GRA 3193 Graphic Design I (3) FA ART
Restricted to majors. This course explores the application of formal design principles to visual problem solving through typography, layout, and web design. Students will apply conventional and electronic tools and techniques to the graphic design process.

GRA 3735 Multimedia Systems I (3) FA ART
This course introduces multimedia systems and focuses on their use as tools in the production of digital multimedia. Content covers all key hardware, navigation, and operating components.

GRA 4930C Graphic Design: Senior Studio (3) FA ART
Advanced problems in graphic design, advertising, and multimedia visual communication systems will be discussed and assigned as projects. Focus is upon efficient and effective use of technology in the design production process.

GRA 4940 Graphic Design: Internship (2) FA ART
On site supervised work experience in an educational, graphic studio, advertising agency, or corporate environment.

GRA 4945 Graphic Design: Professional Practicum (3) FA ART
Students fine-tune their portfolios, create self promotional print and digital projects and develop their resumes. Includes field trips to studios, agencies, corporate graphic departments and marketing firms.

GRA 4955C Senior Project: Portfolio (3) FA ART
COURSE DESCRIPTIONS

This course covers the organization and presentation of a design/advertising/graphic portfolio and appropriate related materials. Emphasis is upon portfolio development, professional production, and self promotional skills.

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

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

GRE 2140 New Testament Greek I (3) AS REL

GRE 2141 New Testament Greek II (3) AS REL
PR: GRE 2140.

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

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

GRK 1121 Beginning Modern Greek II (4) AS WLE
PR: GRK 1120 or equivalent.
A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 2220 Modern Greek III (4) AS WLE
PR: GRK 1120 or its equivalent.
For language students who intend to attain basic proficiency.

GRK 2221 Modern Greek IV (4) AS WLE
PR: GRK 2220 or its equivalent.
Continuation of GRK 2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

GRK 4905 Directed Study (1-5) AS WLE
Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion.

HIS 2931 Special Topics (3) AS HTY
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.

HIS 3308 War and Society (3) AS HTY
An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war. Does not count for History major or minor credit.

HIS 3930 Special Topics (3) AS HTY
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.

HIS 3938 Major Issues in History CPST HHCP (3) AS HTY
This course is an interdisciplinary examination of the historical relationship between (broadly) Asia and the West. It offers non-historians the opportunity to understand the dynamic between past and its interpretation.

HIS 4104 Theory and Methods of History (3) AS HTY
Introduces history majors to the theories, methods, approaches, and key debates that are central to the modern historical profession. Develops skills in historical research, reading, writing, and oral communication. Restricted to majors.

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

HIS 4920 Colloquium in History (2-4) AS HTY
Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>HIS 4936</td>
<td>Pro-Seminar in History CPST HHCP 6AC (4) AS HTY</td>
<td>4</td>
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<td>Advanced topics in the various fields of history. Emphasis on discussion of assigned readings and on research and writing of a major paper.</td>
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<tr>
<td>HIS 4940</td>
<td>Internship in History (1-4) AS HTY</td>
<td>1-4</td>
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<td>Supervised field experience in a research and writing-related position that relates to the History major. Possible internship sites include historical societies and museums. Restricted to majors. Repeatable for 6 total credits.</td>
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<tr>
<td>HLP 2081</td>
<td>Personal Wellness: A Lifetime Commitment (3) ED EDJ</td>
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<td>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.</td>
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<tr>
<td>HLP 4722</td>
<td>Health and Physical Education for the Child (2) ED EDE</td>
<td>2</td>
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<td>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 &amp; physical ed. instruction.</td>
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<tr>
<td>HSC 2000</td>
<td>Introduction to Health Professions (3) AS SPF</td>
<td>3</td>
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<td>This course will introduce students to the US healthcare system and provide an overview of the various careers available within that system.</td>
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<tr>
<td>HSC 2017</td>
<td>Careers in Public Health (3) PH PHC</td>
<td>3</td>
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<td>Course provides students with an overview of public health occupations. After students complete self-assessments tools, the information is applied to personal interests and career goals. Guest speakers offer advice related to employment availability.</td>
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<tr>
<td>HSC 2100</td>
<td>Contemporary Health Science CASB (3) PH PHC</td>
<td>3</td>
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<td>A comprehensive approach is used to educate students on how to critically research, understand, evaluate, and apply information and data related to the basic principles of emotional, intellectual, physical, social, occupational and spiritual health.</td>
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<tr>
<td>HSC 2130</td>
<td>Sex, Health, and Decision-Making CASB (3) PH CFH</td>
<td>3</td>
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<td>This course explores the fundamental relationship between sexuality, decision making and health outcomes from a public health perspective. Students explore sexuality issues and learn tools that promote sexual health and healthy relationships.</td>
</tr>
<tr>
<td>HSC 2400</td>
<td>First Aid (2) ED EDP</td>
<td>2</td>
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<td>Meets the American Red Cross certification requirements in standard and advanced first aid.</td>
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<tr>
<td>HSC 2933</td>
<td>Selected Topics in Public Health (1-3) PH PHC</td>
<td>1-3</td>
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<td>Overview of major public health and health related issues of interest to undergraduates. Course explores a variety of health topics that are related to improving the health and health behaviors of individuals, groups and communities. Specific topics may vary each semester. No prerequisites. Majors and non majors. May be repeated for up to 6 credits.</td>
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<tr>
<td>HSC 3301</td>
<td>Health, Safety, Nutrition and Motor Skills for the Young Child (3) ED EDP</td>
<td>3</td>
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<td>Provide students with the knowledge to teach developmentally appropriate motor activities; to provide continuous health services; create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students.</td>
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<tr>
<td>HSC 3541</td>
<td>Human Structure and Function (3) PH CFH</td>
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<td>This course is designed to introduce the structural levels of the body beginning with chemicals and progressing through cells, tissues, organs and systems with emphasis on homeostasis, stress and feedback systems. Not restricted to majors.</td>
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<tr>
<td>HSC 4134</td>
<td>Prevention of Mental Illness (3) PH PHC</td>
<td>3</td>
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<td>This course explores the contributions of prevention science and public health in impeding the development of mental disorders and the events that lead to mental disorders with the major developmental focus on childhood.</td>
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<tr>
<td>HSC 4172</td>
<td>Women's Health: A Public Health Perspective (3) PH PHC</td>
<td>3</td>
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<td>From a public health perspective, this course will explore the multidimensional and multidisciplinary dimensions of women's health. The course will emphasize health promotion, disease prevention, and overall well-being.</td>
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<tr>
<td>HSC 4211</td>
<td>Health, Behavior and Society (3) PH PHC</td>
<td>3</td>
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<td>This course focuses on an ecological perspective of the determinants of health including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, environment, policies and globalization.</td>
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<tr>
<td>HSC 4213</td>
<td>Environmental and Occupational Risk Analysis (3) PH EOH</td>
<td>3</td>
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<td>This course provides an introduction of risk analysis for environmental and occupational health. Students will gain knowledge of the various regulations and scientific methods for the evaluation of health risk in environmental and occupational settings.</td>
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<tr>
<td>HSC 4430</td>
<td>Occupational Health and Safety (3) PH EOH</td>
<td>3</td>
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<td>This course provides a review of occupational health and safety. Regulatory guidance and compliance, and the underlying science that drives occupational safety regulations are covered. The roles of various health and safety professionals are explored.</td>
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<tr>
<td>HSC 4504</td>
<td>Foundations of Public Health Immunology (3) PH PHC</td>
<td>3</td>
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<td>This course provides an overview of the principles of Immunology and an introduction to the applications of immunology and immunologic</td>
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</table>
techniques used in the surveillance, prevention and control of diseases of public health importance.

**HSC 4537 Medical Terminology (3) PH PHC**
This course provides a unique educational program to improve the student's medical vocabulary. The course includes medical and scientific content information, which students encounter in other health professional courses. Not restricted to any major.

**HSC 4551 Survey of Human Diseases (3) PH PHC**
An overview of the nature, types, and mechanisms of diseases of the major body systems.

**HSC 4573 Foundations of Food Safety (3) PH PHC**
This course provides an overview of food safety practices and principles emphasizing the role of food safety in public health. Topics include proper food handling procedures, food safety hazards, food-borne illness prevention, and food safety regulations.

**HSC 4579 Foundations of Maternal and Child Health (3) PH PHC**
This course provides an overview of maternal and child health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions for families and children.

**HSC 4624 Foundations of Global Health (3) PH PHC**
This course introduces students to the principles of public health from a global perspective. Emphasis will be placed on the impact of social, economic, political and environmental factors that influence health and access to health care across the globe.

**HSC 4630 Understanding U.S. Health Care (3) PH PHC**
An introduction to health services; providing an overview of important components of the U.S. health care system, health policy, funding sources, and comparisons with other developed nations.

**HSC 4631 Critical Issues in Public Health CPST 6AC (3) PH PHC**
This course provides students the opportunity to learn about the multiple ways to view controversial topics in public health. The course covers topics including biomedical issues, social & behavioral factors related to health, and environmental issues.

**HSC 4933 Special Topics in Public Health (1-3) PH PHC**
Content will be governed by student demand and instructor interest.

**HSC 5036 Professional Foundations of Health Education (1) PH CFH**
The study of the practice of health education in various settings, and selected historical, cultural, philosophical, professional, and ethical issues in the practice of education.

**HUM 1020 Introduction to Humanities CAFA SGEH (3) AS HCS**
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 2210 Studies in Culture: The Classical Through Medieval Periods CAHU HHCP (3) AS HCS**
A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.

**HUM 2230 European Humanities: Renaissance - 20th Century CAHU HHCP (3) AS HCS**
Students will be exposed to the creative expressions and cultural products of Western European societies in order not only to determine the past's values, beliefs, and concerns, but also to enrich our own spirits, imaginations, and intellects.

**HUM 2250 Studies in Culture: The Twentieth Century CAHU (3) AS HCS**
Analyses of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.

**HUM 2271 Eastern and Western Culture from Antiquity to 1400 (3) AS HCS**
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.

**HUM 2273 Eastern and Western Culture Since 1400 CAGC (3) AS HCS**
This course examines the different ways Westerners have viewed, understood, and made sense of Asia since the 15th-century.

**HUM 2466 Modern Latin America Cultures (3) AS HCS**
An overview of the cultural heritage of Latin America since the time of independence. Verbal and visual texts will be used to study the difficult struggle to create a cultural identity that incorporates African, indigenous, and European traditions.

**HUM 2522 Introduction to the Cultural Study of Popular Music CAHU (3) AS HCS**
Variable topic. An interdisciplinary examination of popular music traditions as they affect race, class, and gender, and interact with commerce, technology, and politics. Students will combine critical listening with history and cultural analysis.

**HUM 2593 Science in Cultural Context CAHU (3) AS HCS**
This course is an introduction to science studies, where students will engage with scientific texts and consider their production from a variety of historical, philosophical, and cultural views.

**HUM 2930 Selected Topics (1-3) AS HCS**
An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time).

**HUM 3231 The Renaissance (3) AS HCS**
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 New World explorations.

**HUM 3237 The Seventeenth Century (3) AS HCS**
An examination of the development of the art and culture of the Baroque Period, roughly the 17th Century, focusing on primary texts and images. Themes will include mysticism, sensuality, rationalism, science, absolutism, and liberty.

**HUM 3240 The Early Middle Ages: Early Christian Cultures (3) AS HCS**
This course examines early Christianity as a religious, social and cultural phenomenon. Topics include new literary and artistic forms: religious conversion; and Christian ideals of martyrdom, virginity, monasticism, and sainthood.

**HUM 3241 Central Medieval and Gothic Europe (3) AS HCS**
By studying texts and artifacts, this course examines the diverse cultures of Europe from the eleventh to fourteenth centuries. A central issue covered will be the efforts of the church to create an all-encompassing Christian culture.

**HUM 3242 The Enlightenment (3) AS HCS**
By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.

**HUM 3244 Nineteenth Century European Culture (3) AS HCS**
By studying 19th century literature, music, and visual art, this course examines phenomena such as the rise of capitalism, colonial expansion, nationalism, urbanism, and the redefinition of public and political life during this period of extreme change.

**HUM 3309 Introduction to Food Studies (3) AS HCS**
An experiential course addressing historical and contemporary relationships between people and the food they produce/consume, focusing on the impact of industrialization through examination of visual arts, literature, and popular culture texts.

**HUM 3407 Ancient Near East Cultures (3) AS HCS**
Material and intellectual culture of ancient Mesopotamia (Iraq) & Persia (Iran) from the fourth millennium BCE until the coming of Islam. Topics include the Sumerian and the Assyrian in Mesopotamia; and the Achaemenid, Parthian, and Sasanian in Persia.

**HUM 3457 Nineteenth Century American Arts and Letters (3) AS HCS**
This course explores American art, literature, and cultural life from the early republic through the Gilded Age. Works are studied in their historical context in order to understand how they transmitted important information about American identity.

**HUM 3458 Twentieth-Century American Culture (3) AS HCS**
A historical survey of American culture since 1900. Literature, music, visual art, film, and intellectual movements are analyzed, to understand how they have reflected and shaped cultural values and responded to changing conditions of American society.

**HUM 3463 Latin American Civilization I: Pre-Columbian & Colonial (3) AS HCS**
PR: HUM 2210 or HUM 2230.
An overview of Pre-Columbian and Colonial Latin American Culture through 1700. Topics include literature, music, and art; ethnic diversity: political and religious tension; "high" versus "low" culture; and the clash of European and American cultures.

**HUM 3804 Introduction to Cultural Studies (3) AS HCS**
PR: AMS 2030 or AMS 2270 or FIL 1002 or HUM 2210 or HUM 2230 or HUM 2250 or HUM 2273 or HUM 2522.
An introduction to the ideas and skills needed for doing scholarly work in interdisciplinary cultural studies. An overview of central critical discussions including gender studies, postcolonialism, class and power relationships, and technology and media.

**HUM 3930 Selected Topics in Humanities (1-3) AS HCS**
Courses offered under this number will always be interdisciplinary, treating more than one art media and relating them historically or in some other way. The interdisciplinary emphasis on literature and the arts, placing them in some larger context of culture or ideas, distinguished HUM courses from related courses offered in other departments of the university. Topics will vary; course may be repeated for credit with change of content.

**HUM 4261 Cultural Periods and Styles (3) AS HCS**
Focuses on the relationships between a particular historical period and the cultural forms characteristic of it. An interdisciplinary examination of cultural texts as responding to social and political issues of the day. Topic varies. Repeatable to 6 cr.

**HUM 4331 Humanities Pro-Seminar (3) AS HCS**
PR: HUM 3804 with a grade of B- or better
A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the
COURSE DESCRIPTIONS

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construction of a written argument. Not restricted to majors. Offered only in fall semester.

HUM 4391 Places, Spaces, and Regions (3) AS HCS
Focuses on relationships between geographical location and cultural dynamics. Emphases include the roles of natural environments, core-periphery relations, and local identities in the development of cultural practices. Topic varies. Repeatable to 6 cr.

HUM 4433 Ancient Greek Culture (3) AS HCS
PR: HUM 2210 or HUM 2230
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 4452 Nineteenth Century American Culture (3) AS HCS
PR: HUM 2210 or HUM 2230
Study of selected works of art, tracing the course of American expansionism in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.

HUM 4462 Pre-Columbian and Colonial Latin American Culture (3) AS HCS
PR: HUM 2210 or HUM 2230
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 4464 Modern Latin American Culture (3) AS HCS
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 4581 Film and Media Theory (3) AS HCS
PR: HUM 3583 or HUM 3584
This advanced introduction to film and media theory offers students sophisticated tools for thinking critically and creatively about motion pictures and the psychological, cultural, political, and historical meanings they engender.

HUM 4582 Film Auteurs (3) AS HCS
Surveys the contributions to American culture of major films from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: region, subject, or period of time. Repeatable up to 9 credit hours with change of topic.

HUM 4824 Issues in Cultural Theory (3) AS HCS
Focuses on a critical issue in cultural theory. Students will delve into an issue central to cultural study and develop their ability to apply cultural theory to the analysis of cultural forms. Topic varies. Repeatable up to 6 hours with change of topic.

HUM 4825 Identity and Power (3) AS HCS
Focuses on the relationships between social power and individual or group identity. Emphasizes how discourses on race, class, gender, and/or nationality construct individual subjectivity and imagined communities. Topic varies. Repeatable to 6 credits.

HUM 4890 Genres and Media (3) AS HCS
This course focuses on a particular aesthetic genre or media. Emphasis is on close readings of the media or genre in question, and on how media or generic paradigms shape ideas and identities.

HUM 4905 Directed Study (1-4) AS HCS
Specialized individual study determined by the student's needs and interests.

HUM 4930 Selected Topics in Humanities (1-3) AS HCS
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 CPST WRIN 6AC (3) AS HCS
PR: HUM 3331
Seminar focuses on the writing of a substantial research paper in the humanities. Topic varies. Offered only in spring semester.

HUM 4938 Major Issues in the Humanities CPST (3) AS HCS
The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors.

HUM 4940 Internship in Humanities (1-3) AS HCS
A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community.

HUM 4941 Study on Location (1-4) AS HCS
The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures. Not restricted.

HUN 2201 Nutrition (3) PH CFH
PR: HUN 2201
A study of the formation of eating habits from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.

HUN 3126 Food and Culture (3) PH CFH
PR: HUN 2201
Exploration of the role of cultural diversity in formation of food habits with focus on changes in U.S. dietary patterns related to global cultural plurality. Course is not restricted to majors. The course is not repeatable.

HUN 3272 Sports Nutrition (3) PH CFH
PR: HUN 2201
This course explores nutrition in the enhancement of health and fitness. Discussion includes the nutrient requirements for attainment and maintenance of health, disease prevention and sports performance. The course is not restricted to majors and it is not repeatable for credit.

HUN 3296 Nutrition and Disease (3) PH CFH
PR: HUN 2201
A nutrition course for those wishing to increase their nutrition knowledge in the areas of health care, diet and disease, and therapeutic nutrition. The course is not restricted to majors and is not repeatable for credit.

HUN 3403 Nutrition through the Life Cycle (3) PH CFH
PR: HUN 2201
Nutritional needs and concerns throughout stages of the life cycle including pregnancy and lactation, infancy, adolescence, adulthood, and aging; socioeconomic, cultural and psychological influences on food and nutrition behavior.

HUN 3601 Nutrition Education & Counseling (3) PH CFH
PR: HUN 2201
a nutrition course for those wishing to increase their nutrition knowledge in the areas of health care, diet and disease, and therapeutic nutrition. The course is not restricted to majors and is not repeatable for credit.

HUN 3932 Selected Topics in Nutrition (3) PH CFH
The content of this course will be determined by student demand and instructor interest. Repeatable up to 3 times with different topics.

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

IDH 2010 Acquisition of Knowledge CAHU HHCP (3) HC HON
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 (0-3) HC HON
PR: IDH 2010
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 CAHU HHCP (1-3) HC HON
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. Repeatable for a maximum of six hours.

IDH 3350 Natural Sciences Honors CANP (3) HC HON
An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions. Honors College students only. Repeatable up to 6 hours.

IDH 3400 Social and Behavioral Sciences Honors CASB (3) HC HON
Introduction to the concerns of the Social and Behavioral Sciences, methods of inquiry, discovery, and validation of knowledge. A survey of the way various disciplines examine the question of how society is organized. Repeatable for up to 6 credits with change of topic.

IDH 3600 Seminar in Applied Ethics CASB (3) HC HON
This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

IDH 4000 Honors Program Seminar: Major Works/Majors Issues (3) 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 4200 Geographical Perspectives Honors CAGC (3) HC HON
PR: IDH 2010.
An introduction to African, Latin American, Middle Eastern, or Asian perspectives focusing on social, political and economic, artistic, cultural and intellectual subject matter. The material will be presented within a geographical, chronological, and humanities background. Repeatable for up to 6 credits with change of topic.

IDH 4910 Undergraduate Research (0-3) HC HON
A supervised program of interdisciplinary research in areas of specific interest. Open to all USF students by application through the undergraduate research coordinator.

IDH 4930 Selected Topics (1-3) HC HON
PR: IDH 2010.
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 Project (1-4) HC HON
A program of independent research or study in areas of specific interest working under the supervision of a faculty mentor. Restricted to Honors College students.

IDH 4970 Honors Thesis (3) HC HON
The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

IDH 5956 Honors Project CPST (3) HC HON
Advanced Honors Project. Repeatable up to 12 hours.

IDS 5975 Honors Thesis WRIN 6AC (3) HC HON
Advanced Honors Thesis. Repeatable up to 12 hours.

IDS 1505 Introduction to Research in Beh. & Com. Sciences (1) BC MHL
Overview of research problems in behavioral & community sciences, research ethics, and the responsible conduct of research. Restricted to students with a major or minor in College of Behavioral & Community Sciences.

IDS 2130 Biology For Learning Communities (3) AS IAS
This course is an introduction to major concepts of biology, focusing on evolution as the unifying concept in the field. Non-majors only.

IDS 2600 Applications of Research in Community Settings (1) BC MHL
Research in Community Settings introduces students to the principles of community-based participatory research and provides opportunities for students to observe and analyze the application of evidence-based practices in community settings.

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

IDS 2665 Social Science Perspectives II (3) AS IAS
Approaches the study of human behavior and society using the lens of various institutions. 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 (3) AS IAS
Approaches the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place.

IDS 2667 Historical Perspectives II (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 emplotted in histories, rather than a comprehensive survey of a limited time or place. With this understanding, students will produce several of their own histories.

IDS 2912 Undergraduate Research Experience (0-4) US DEA
Learning objectives determined by faculty and aligned with students career aspirations and/or academic program. May be repeated a maximum of four times. This course is open to all majors.

IDS 2931 Selected Topics (1-3) AS IAS
Selected topics in liberal arts and sciences. A basic introduction to the substance and theory of contemporary topics in humanities, social science or natural science.

IDS 3115 Values and Choices 6AC (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 (3) AS IAS
An interdisciplinary perspective of the biological basis of human disease combined with critical thinking and medical ethics. Basic concepts of human disease are integrated with bioethical dimensions of patient choice, physician responsibility and current health care issues.

IDS 3682 Arts Connections (3) FA 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 3688 Images of Contemporary Urban Culture 6AC (3) AS IAS
Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.

IDS 3947 Cooperative Internship (0-6) US DEA
Learning objectives determined by faculty and aligned with experiences in the workplace setting related to student’s career aspiration and/or academic program. May be repeated for a maximum of 6 credit hours. The internship course is open to all majors.

IDS 3949 Cooperative Education, Parallel (0-2) US DEA
Part-time (10-25 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program. S/U Only.

IDS 4910 Community Research (1-4) AS CEL
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 4914</td>
<td>Advanced Undergraduate Research Experience</td>
<td>Learning objectives determined by faculty and aligned with students career aspirations and/or academic program. May be repeated a maximum of four times. This course is open to all majors.</td>
</tr>
<tr>
<td>IDS 4930</td>
<td>Selected Topics</td>
<td>Course content determined by students’ and instructor's interests and needs.</td>
</tr>
<tr>
<td>IDS 4934</td>
<td>Senior Capstone for BSAS/BGS CPST WRIN 6AC</td>
<td>This course affords students the opportunity to synthesize knowledge they have gained throughout their previous undergraduate coursework and identify how their integrated program of study provides real-world applicability and utility.</td>
</tr>
<tr>
<td>IDS 4942</td>
<td>Community Internship (1-4)</td>
<td>To provide students with a community internship experience.</td>
</tr>
<tr>
<td>IDS 4949</td>
<td>Cooperative Education, Alternating (0-3) US DEA</td>
<td>Full-time (40 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA2.5+, a declared major and be accepted in Cooperative Education Program.</td>
</tr>
<tr>
<td>IDS 4955</td>
<td>International Community Research (1-4) AS CEL</td>
<td>To provide students with an international community research experience.</td>
</tr>
<tr>
<td>IDS 4956</td>
<td>International Community Internship (1-4) AS CEL</td>
<td>To provide students with an international community internship experience. Repeatable up to 8 credits.</td>
</tr>
<tr>
<td>IDS 5177</td>
<td>The Atelier, Its Management and History (3) FA ART</td>
<td>This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.</td>
</tr>
<tr>
<td>IDS 5178</td>
<td>Problems in Museum Studies (3) FA ART</td>
<td>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.</td>
</tr>
<tr>
<td>INP 2101</td>
<td>Applied Psychology (3) AS PSY</td>
<td>The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.</td>
</tr>
<tr>
<td>INP 4004</td>
<td>Industrial Psychology (3) AS PSY</td>
<td>PR: PSY 3213 with a grade of C or better. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.</td>
</tr>
<tr>
<td>INR 1015</td>
<td>World Perspective (3) AS GIA</td>
<td>An interdisciplinary study of the international system, major world regions and problems.</td>
</tr>
<tr>
<td>INR 2002</td>
<td>Introduction to International Relations (3) AS GIA</td>
<td>Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.</td>
</tr>
<tr>
<td>INR 3011</td>
<td>Globalization (3) AS GIA</td>
<td>Influence of globalization on political-economic and social systems around the world. International organizations involved with globalization processes are studied along with nations benefiting and suffering from the consequences of globalization.</td>
</tr>
<tr>
<td>INR 3018</td>
<td>World Ideologies (3) AS GIA</td>
<td>A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.</td>
</tr>
<tr>
<td>INR 3033</td>
<td>International Political Cultures (3) AS GIA</td>
<td>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.</td>
</tr>
<tr>
<td>INR 3038</td>
<td>International Wealth and Power (3) AS GIA</td>
<td>Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.</td>
</tr>
<tr>
<td>INR 3081</td>
<td>International Issues and Actors (3) AS GIA</td>
<td>An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations.</td>
</tr>
<tr>
<td>INR 3084</td>
<td>International Terrorism (3) AS GIA</td>
<td>A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.</td>
</tr>
<tr>
<td>INR 3102</td>
<td>American Foreign Policy (3) AS GIA</td>
<td>Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.</td>
</tr>
<tr>
<td>INR 3141</td>
<td>Global Security Policy (3) AS GIA</td>
<td>A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.</td>
</tr>
<tr>
<td>INR 3202</td>
<td>International Human Rights (3) AS GIA</td>
<td>This course explores the evolution of international rights from the Greeks to the present.</td>
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</tbody>
</table>
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INR 3336 Intelligence and U.S. Foreign Policy (3) AS GIA
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 3955 Overseas Study (1-6) AS GIA
A program of individual or group research in a foreign country.

INR 4035 International Political Economy (3) AS GIA
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4083 Conflict In The World (3) AS GIA
An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, and the concept of Early Warning Systems related to the outbreak of conflict.

INR 4254 Africa in World Affairs (3) AS GIA
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 (3) AS GIA
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 (3) AS GIA
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 GIA
A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

INR 4910 Directed Research (1-3) AS GIA
A supervised program of interdisciplinary research in areas of specific interest.

INR 4931 Selected Topics (1-3) AS GIA
Interdisciplinary studies with course content dependent on student demand and instructor's interest.

INR 4936 Senior Seminar (3) AS GIA
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 GIA
The purpose of the course is to promote the student's understanding of global international issues within a local and practical context.

INR 4942 Globalization (3) AS GIA
Examination of globalization’s impact on international relations, including literature from 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 5086 Issues in International Relations (3) AS GIA
Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.

INT 3004 Fundamentals of Interpreting (3) BC CSD
PR: ASL 4201C.
This is a course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. Students translate texts between English, ASL and English based sign language.

INT 3110 Language and Cognitive Processing Skills in English (3) BC CSD
PR: ASL 4201C
CR: INT 3111.
Students develop the cognitive processing and language skills within English that are preliminary steps for interpretation. It will develop student's ability to segment information to perform various cognitive tasks intralingually. For Majors only.

INT 3111 Language and Cognitive Skills in ASL (3) BC CSD
PR: ASL 4201C
CR: INT 3110.
Students acquire cognitive processing and language development within ASL that are preliminary steps for performing simultaneous interpretation. This course also includes a service component by volunteering in various deaf communities. For majors only.

INT 3112 Translation from English and from ASL (3) BC CSD
PR: INT 3110, INT 3111.
This is a course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. Students translate texts between English, ASL and English based sign language.

INT 3205 Interpreting I (3) BC CSD
PR: INT 3112, ASL 3324.
This course reinforces ASL and English skill development and the expressive and receptive skills of beginning interpreting through drill, practice and role play activities and focuses on translation and consecutive interpretation.

INT 3270 Interpreting Process and Skill Development (3) BC CSD
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INT 4235 Advanced Re...
INT 4211 Transliterating (3) BC CSD
INT 4208 Interpreting III (3) BC CSD
INT 4206 Interpreting II (3) BC CSD
INT 4190 Senior Seminar in Interpreter Training (3) BC CSD
INT 3945 Introduction to the
INT 3481 Specialized Terminology (3) BC CSD
INT 3403 Issues in Educational Interpreting (3) BC CSD
INT 3270, INT 3112, ASL 3324
INT 3270, INT 3112, INT 3004, ASL 3324
INT 4250 Simultaneous Interpretation Monologic (3) BC CSD
PR: INT 3004, INT 3112.
INT 4250. Students simultaneously interpret monologic talk from ASL and from English with target language production beginning before the conclusion of the source utterance and continuing as the student listens to the concluding source utterance. For majors only.
INT 4251 Simultaneous Interpretation Dialogic (3) BC CSD
PR: INT 4250.
INT 4251. Students interpret dialogues from ASL to English and from English to ASL with the target language production beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.
INT 4260 ASL to English Consecutive Interpretation (2) BC CSD
PR: INT 3004, INT 3112
CR: INT 4261
INT 4261. Students consecutively interpret conversational discourse of planned and unplanned conversational language samples from ASL to English with delays of a few seconds after the source utterance is finished. For majors only.
INT 4261 English to ASL Consecutive Interpretation (2) BC CSD
PR: INT 3004, INT 3112
CR: INT 4260.
INT 4260. Students consecutively interpret conversational discourse from English to ASL with delays from conversational language samples of various lengths ranging from single utterances to discourse units of several minutes duration. For majors only.
INT 4456 Interpreting: Specialized Settings and Populations (3) BC CSD
Examines settings in which interpreters work (social service and rehabilitation, employment, religious, performing arts, legal, etc.) and the challenges of specific deaf and hard-of-hearing consumers and those with minimal language skills (MLS).
INT 4460 Video Interpreting (3) BC CSD
Video Remote Interpreting (VRI) and Video Relay Service (VRS) are new settings for sign language interpreters. This course will explore differences between VRI and VRS, ethical considerations related to video interpreting, and required specialized skills.
INT 4490 Introduction to Cued Speech and its Applications (3) BC CSD
This course covers the fundamentals of the Cued Speech system, including an overview of how it is
COURSE DESCRIPTIONS

ISM 3113 Systems Analysis

ISM 3011 Information Systems in Organizations

ISC 3403C Physical Science Fundamentals for

ISC 1005 Integrated Natural Sciences I: Science that Matters (3) AS IDS

Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

ISC 1004 Integrated Natural Sciences I: Science that Matters (3) AS IDS

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.

INT 4947 Interpreting Practicum II (3) BC CSD

PR: INT 4206

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.

ISC 3403C Physical Science Fundamentals for Teachers (4) AS CHM

This course is develops future science teachers’ knowledge of the physical (chemistry, and physics) sciences commonly found in 5-9 school curricula, with a focus on effective research based physical sciences pedagogy.

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 with a grade of "C" or better (not C-).

The course presents concepts, procedures, and tools needed to build computer-based information systems. The objective is to develop project management, data collection, analysis, design, testing and documentation skills.

ISM 3232 Business Application Development (3) BA QMB

CPR: ISM 3011 with a grade of "C" or better (not C-).

Presentation of business application development using an object-oriented programming language. Good program design techniques are emphasized. Business applications are developed.

ISM 3431 Operations and Supply Chain Processes (3) BA QMB

PR: QMB 2100, ACG 2071, both with a grade of C or better (not C-)

This course will provide a contemporary overview of operations management with special emphasis on supply chains and services. Both concepts for successful managers and common tools used to build, manage, and improve systems will be covered.

ISM 4141 Web Application Development/Java (3) BA QMB

PR: ISM 3232 with a grade of "B" or better.

Java will be used to introduce object oriented concepts. Programming assignments cover a variety of application features including graphical user interface, database connectivity, multithreading, & client-server computing using Java and Java Server Pages.

ISM 4153 Information Systems in Organizations (3) BA QMB

PR: ISM 4212 with a grade of "C" or better (not C-).

An introduction to the use, configuration and implementation of enterprise resource planning systems, and their application to key business processes. This course is restricted to business majors only.

ISM 4212 Database Design and Administration (3) BA QMB

PR: ISM 3113 with a grade of "C" or better (not C-).

An introduction to the concepts and principles of database management. Provides potential designers, users and managers of database systems with an understanding of physical vs. logical representations, data modeling, implementation, and data management.

ISM 4213 Advanced Database Administration (3) BA QMB

PR: ISM 3113, 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
ISTM 4970 Information Systems Honors Thesis (3) BA QMB
PR: ISM 3011 with a grade of "C" or better (not C-).
Role of information technology in global business organizations and challenges in building information systems to enable global operations.

ISM 4400 Decision Support Systems (3) BA QMB
PR: QMB 3200, ISM 3011, with a grade of "C" or better (not C-).
Study of quantitative analysis tools and their use in organizational decision making. Emphasis on a structured approach to making common business decisions, demonstrating several forms of mathematical modeling and other management science techniques.

ISM 4402 Business Intelligence (3) BA QMB
PR: ISM 4212, with a grade of C or better
For undergraduate information systems students, as well as other interested business students. The course covers the rapidly emerging business intelligence and data mining technologies that are likely to play a strategic role in business organizations.

ISM 4432 Software Testing (3) BA QMB
PR: ISM 3113
The quality assurance of software systems requires rigorous methods for the verification of requirements, design, and implementation. This course surveys the best practices of software testing and explores the latest research ideas.

ISM 4480 Electronic Commerce Systems (3) BA QMB
PR: ISM 3011 with a grade of "C" or better (not C-)
Familiarize students with the opportunities and challenges associated with e-commerce and its business models, to explore the underlying technologies used in implementing e-commerce systems, and to develop the skills needed to manage effective Web sites.

ISM 4905 Independent Study (1-6) BA QMB
Independent study as directed by designated faculty.

ISM 4930 Selected Topics in MIS (1-3) BA QMB
Selected topics in MIS.

ISM 4940 ISM Internship (3) BA QMB
This course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.

ISM 4950 Independent Research (1-6) BA QMB
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

ISM 4970 Information Systems Honors Thesis (3) BA QMB
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to
develop explanations or solutions to academically interesting business problems or opportunities.

**ISS 1101 Knowledge and Society (3) AS ISS**
Course introduces students to issues concerning the relationship between knowledge and society. Among the issues addressed are competing accounts of knowledge and the relationship between knowledge and other forms of human experience and different aspects of social life such as religion, morality, aesthetics, politics, and gender.

**ISS 1102 Self and Society (3) AS ISS**
This course considers the history of the intellectual and social underpinnings of individualism. Why do we consider ourselves “selves,” independent of social forces which we so readily recognize in others?

**ISS 1103 Nature and Culture (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 technology affect our society and environment.

**ISS 3010 Introduction to the Social Sciences (3) AS ISS**
Integrates the range of social science fields into a global interdisciplinary perspective. Views social institutions and issues from perspectives of changing paradigms.

**ISS 3930 Selected Topics in the Social Sciences (1-3) 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**
A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

**ISS 4910 Directed Research (1-3) AS ISS**
A supervised program of interdisciplinary research in areas of specific interest.

**ISS 4935 Seminar in the Social Sciences (3) AS ISS**
PR: ISS 3010
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**
Interdisciplinary studies with course content dependent on student demand and instructor's interest.

**ITA 1120 Beginning Italian I (4) AS WLE**
The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

**ITA 1121 Beginning Italian II (4) AS WLE**
The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

**ITA 2200 Italian III (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 2201 Italian IV (3) AS WLE**
PR: ITA 2200.
This course marks the fourth level in the acquisition of Italian language. It continues to encourage students to speak, listen, read and write in the target language through frequent communicative activities.

**ITA 2240 Italian Conversation (3) AS WLE**
PR: ITA 2200
This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student’s knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

**ITA 2241 Italian Conversation II (3) AS WLE**
PR: ITA 2241
This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student’s knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

**ITA 3234 Reading and Writing in Italian (3) AS WLE**
PR: Beginning Italian I & II; & two of ITAIII, ITAIV, ITA 2240, ITA 2241, or ITA 3420
This course marks an advanced level in the acquisition of Italian language. It continues to encourage students to speak, listen, read and write in the target language through intensive reading.

**ITA 3420 Composition (3) AS WLE**
A fundamental composition course for students who have completed ITA 2200.

**ITA 3470 Overseas Study (1-6) AS WLE**
An intensive study-travel project in Italy.

**ITA 4930 Special Topics (1-3) AS WLE**
This course focuses on any area of special interest of students or faculty in Italian studies. The topics and hours may vary by semester, and may be taught in either English or Italian.

**ITT 3504 Italian Culture Through Film (3) AS WLE**
An overview of Italian culture from the Unification to the present. It aims at tracing the ways in which the concept of Italian culture has been defined according to different social, historical, and political perspectives. Taught in English.

**ITT 4505 Italy & the Italian-American Experience (3) AS WLE**
COURSE DESCRIPTIONS

The focus of this course is on the representation of Southern Italy in a selection of novels, films, memoir writing, and music and on the history of the Italian diaspora – mainly made of Southerners migrated to the United States.

ITT 4531 Italian Food in Film (3) AS WLE
This course explores Italian food represented in different cinematic texts and its connection to culture, economics, and politics in Italy and beyond.

ITW 4100 Survey of Italian Literature I (3) AS WLE
The course aims at providing an introduction to the study of Italian Medieval and Renaissance literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.

ITW 4101 Survey of Italian Literature II (3) AS WLE
The course aims at providing an introduction to the study of Italian Modern and Contemporary literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.

ITW 4905 Directed Study (1-3) AS WLE
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), PHI 1103 and POS 2041.
CPR: JOU 4201
Reporting and writing the more complex and specialized story. Techniques of investigative and analytical reporting, including ethical and legal considerations.

JOU 3306 Critical Writing: Editorials, Reviews, Columns (3) AS COM
PR: JOU 3101 and JOU 4201.
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
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, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

JOU 4201 News Editing I (1) AS COM
PR: ECO 1000, JOU 2100, and SYG 2010.
Evaluating news and its display. Editing and rewriting copy for the mass media including new media, with emphasis on the daily newspaper. News judgment, headlines and makeup. Ethical problems. Introduction to theories of design and graphics.

JOU 4206 Newspaper and News Publication Design (3) AS COM
PR: JOU 4201
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 both print and electronic formats.

JOU 4212 Magazine Design and Production (3) AS COM
PR: JOU 4201.
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: JOU 4201.
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
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
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 5116 Explorations In Newswriting (3) AS COM
Listed in catalog as jou 5305. 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
COURSE DESCRIPTIONS

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 ongoing beyond traditional practices of reporting and writing news stories.

JOU 5305 Explorations in Newswriting (3) AS COM
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.

JOU 5344 Multimedia Journalism (3) AS COM
The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.

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

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

JPN 2220 Modern Japanese III (4) AS WLE
PR: JPN 1121 or equivalent.
Continuing study to attain basic proficiency in Japanese.

JPN 2221 Modern Japanese IV (4) AS WLE
PR: JPN 2220 or equivalent.
Continuation of JPN 2200.

JPN 4905 Directed Study (1-5) AS WLE
Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.

JPN 4930 Selected Topics (1-3) AS WLE
Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion.

LAE 4311 Teaching Print and Multimodal Texts in Elementary Education (3) ED EDR
PR: LAE 4424.
The purpose of this course is to understand children’s writing processes and effective instructional strategies for supporting composition.

LAE 4314 Teaching Writing in the Elementary School, Grades K-6 (3) ED EDR
The purpose of this course is for students to understand children’s writing development and to design and implement instructional strategies for teaching composition in an integrated Language Arts curriculum.

LAE 4323 Methods of Teaching English: Middle School (3) ED EDI
Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.

LAE 4332 Traditional English Grammar for Teachers (3) ED EDR
Prepares teachers to teach secondary English with an interactive approach to grammar instruction in which students learn, not only the basic elements of English grammar, but also pertinent and engaging classroom activities for teaching grammar.

LAE 4335 Methods of Teaching English: High School (3) ED EDI
CR: LAE 4464.
Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students.

LAE 4414 Teaching Literature in the Elementary School, Grades K-6 WRIN 6AC (3) ED EDR
This course involves the selection, evaluation, and use of fiction, nonfiction, and poetry for instructional, informational, and recreational purposes in childhood education.

LAE 4424 Teaching Children’s Literature (3) ED EDR
Building on an appreciation for children’s literature, this class is for undergraduate teacher candidates to learn how to select quality literature for children and to demonstrate instructional strategies for developing children’s engagement.

LAE 4464 Adolescent Literature for Middle and Secondary Students 6AC (3) ED EDI
A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 4469 Teaching World Literature to Middle and Secondary Students (3) ED EDI
World literature encompasses more than Western European literature. This course is designed to emphasize, but is not limited to, the study of Eastern literature. This course fulfills the world literature course requirement for teacher certification in English.

LAE 4530 Methods of Teaching English: Practicum (3) ED EDI
This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary school English/Language Arts classrooms. Course is restricted to majors.

LAE 4936 Senior Seminar in English Education CPST (3) ED EDI
Synthesis of teacher candidate's courses in complete college program.

LAE 4940 Internship: English Education (1-12) ED EDI
COURSE DESCRIPTIONS

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAH 3200</td>
<td>Modern Latin America (3) AS HTY</td>
<td>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.</td>
</tr>
<tr>
<td>LAH 3430</td>
<td>History of Mexico (3) AS HTY</td>
<td>Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.</td>
</tr>
<tr>
<td>LAH 3470</td>
<td>History of the Caribbean (3) AS HTY</td>
<td>A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.</td>
</tr>
<tr>
<td>LAH 3480</td>
<td>History of Cuba (3) AS HTY</td>
<td>Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.</td>
</tr>
<tr>
<td>LAH 3630</td>
<td>Modern Brazil (3) AS HTY</td>
<td>Political, economic and cultural history of Brazil from colonization to the present with emphasis on the twentieth century. Topics include colonization, slavery, independence, nation building, economic development, the Cold War, race, class and gender.</td>
</tr>
<tr>
<td>LAS 3002</td>
<td>Latin America (3) AS GIA</td>
<td>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.</td>
</tr>
<tr>
<td>LAS 3116</td>
<td>Latin America Through Film (3) AS GIA</td>
<td>This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.</td>
</tr>
<tr>
<td>LAS 4023</td>
<td>African Diaspora in Latin American and the Caribbean CAGC HHCP (3) AS AFA</td>
<td>The class examines the development and history of the African Diaspora in Latin America and the Caribbean from colonization through the modern era. While primarily a history course, anthropological and sociological perspectives are also incorporated.</td>
</tr>
<tr>
<td>LAS 4934</td>
<td>Selected Topics: Latin American Studies (1-3) AS GIA</td>
<td>Latin America region will be analyzed through different specific topics to provide students analytical tools to understand hemispheric relations and the relevance of this complex region for the USA. Open to non-majors, repeatable up to 09 credits.</td>
</tr>
<tr>
<td>LAT 1120</td>
<td>Beginning Latin I (4) AS WLE</td>
<td>Designed to complement other instruction focused on Latin America and the Caribbean. Open to all majors and is repeatable up to 9 hours.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

LAT 1121 Beginning Latin II (4) AS WLE
PR: LAT 1120 or equivalent.
An introductory course in Latin grammar with appropriate readings.

LAT 2220 Intermediate Latin (4) AS WLE
PR: LAT 1121 or equivalent.
Readings in Latin at an intermediate level.

LAT 2221 Intermediate Latin II (4) AS WLE
PR: LAT 2220.
This class will introduce students to their first Latin author, and to the techniques and skills of intermediate work in Latin. It will also provide a comprehensive review of Latin Grammar. It is not restricted to majors, and not repeatable for credit.

LDR 2010 Leadership Fundamentals (3) US LDR
Covers a broad range of leadership topics from self-development and understanding of self, to group behavior, organizational design, ethics and teamwork. The potential of every individual to develop effective leadership skills is examined.

LDR 3115 Contemporary Issues In Leadership (3) US LDR
This course offers students interested in the dynamics of contemporary leadership the opportunity to explore relevant leadership trends and examine contemporary leadership theories.

LDR 3214 Leadership in the Fraternal Movement (3) US LDR
Leadership course designed for Greek Life board members, chairpersons of chapters, governing councils and auxiliary organizations. Study of group processes and applications for building and leading organizations from corporate and non-profit perspectives.

LDR 3216 Leadership and Social Change (3) US LDR
This course explores the role of leadership in movements of social change. Grand feats to small initiatives and even failed attempts will be analyzed in order to consider the common practices of those who seek to improve society.

LDR 3263 Community Leadership Practicum (3) US LDR
PR: LDR 2010 or LDR 3331, with a minimum grade of C-.
This course involves the transference of leadership theories into practice. It provides a practical forum for students to examine and develop personal leadership skills.

LDR 3280 Leadership in the Political Context (3) US LDR
This course offers students the dynamics of political leadership, exploring relevant leadership trends and examines leadership theory using articles, film/documentaries, short fiction, experiential activities, and role playing as the learning medium.

LDR 3301 Strategic Leadership in the Public Sector (3) AS SPF
This course explores leadership principles and effective practices in the public and non-profit sectors. Course content will focus on strategic management, planning, and evaluation in the public services.

LDR 3331 Leading in the Workplace (3) US LDR
Explores the complex challenges of leadership through the examination of leaders and workforce situations. Designed to view leadership as a process focusing on the leader, the followers, and real-world workplace situations. Appropriate for working adults.

LDR 3930 Selected Topics in Leadership (0-3) US LDR
Course content will depend upon the interest of the faculty member and student demand. Repeatable up to 15 credits.

LDR 4104 Theories of Leadership (3) US LDR
PR: LDR 2010 or LDR 3331, with a minimum grade of C-.
Focuses on historical and modern views of leadership. It is designed to assist students analyzing and understanding the historical, social, political aspects of leadership theories and styles as well as the application of leadership theories in settings.

LDR 4114 Survey of Leadership Readings (3) US LDR
Survey of historical and contemporary writings on leadership skills and practices. Examines the contextual manner in which the leader functions.

LDR 4164 Organizational Theories and Processes (3) US LDR
PR: LDR 2010 or LDR 3331, with a minimum grade of C-.
Participants will delve into the nature of organizational dynamics, they will utilize concepts, generalizations, theories, and frames of reference to analyze organizations and leadership to understand and improve their function.

LDR 4204 Ethics and Power in Leadership (3) US LDR
Course reviews arguments for ethics in leadership as proposed by both contemporary and ancient leadership theories. It also examines theories of power and authority, and seeks answers to the apparent dilemmas through applied moral theory and psychology.

LDR 4230 Global Leadership (3) US LDR
A focus on historical and contemporary issues concerning the role, responsibilities and processes for leaders in the global environment. Addresses leadership concerns relating to social, cultural, ethical, political, economical, and environmental issues.

LDR 4564 Images of Leadership in the Media (3) US LDR
This course examines the historical development of leadership theory through contemporary times. Surveys literature and other media relevant to role
of the leader and to the development and application of leadership skills.

LDR 4951 Leadership Capstone Seminar (3) US
PR: LDR 4104
This is the culminating course/experience for the Leadership minor assisting students in the integration of their study of leadership. Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, political, economic and historical perspectives addressed in prior Leadership courses.

LIN 2002 Language, Culture & Film CAHU (3) AS WLE
Offers initial exposure to foreign languages and cultures. Through lecture, demonstration, discussion, and the viewing of full-length feature films, students are introduced to a variety of prominent modern and ancient languages and cultures.

LIN 2670 English Grammar and Usage (3) AS ENG
A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not count toward the English major.

LIN 3003 Language Matters (3) AS WLE
This course aims to encompass issues regarding language, culture, and myths, including the facts about language learning, cultural dynamics in relation to the use of language, and current cross-cultural issues in the aspect of language as a medium.

LIN 3010 Introduction to Linguistics (3) AS WLE
Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.

LIN 3801 Language and Meaning 6AC (3) AS WLE
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF/TV Channel 16 by the O.U. Program.

LIN 4350 Sound Systems in American English (3) AS WLE
A comprehensive overview of the phonology and phonetics of the English language with a focus on both research and pedagogy. Theoretical and practical introduction to pronunciation teaching.

LIN 4671 Traditional English Grammar (3) AS ENG
A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.

LIN 4680 Structure of American English (3) AS ENG
An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English, in particular.

LIN 4701 Psycholinguistics (3) AS WLE
General introduction to the theory and methodology of psycholinguistics at the undergraduate level.

LIN 4721 Second Language Acquisition (3) AS WLE
General introduction to second language acquisition theories at the undergraduate level including characteristics of learner language.

LIN 4903 Directed Reading (1-3) AS WLE
Readings in special topics.

LIN 4930 Selected Topics (1-3) AS WLE
Course content depends upon students’ needs and instructor’s interest and may range over the entire field of linguistics.

LIN 5700 Applied Linguistics (3) AS WLE
Analysis of the phonological, morphological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIS 2005 Library and Internet Research Skills CASB (3) AS LIS
This course covers the development of undergraduate research and critical thinking skills to identify, evaluate, and use appropriate information sources to address educational, research, and other information needs.

LIS 2937 Selected Topics in Library/Information Science (1-3) AS LIS
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 3261 Introduction to Information Science (3) AS LIS
Foundations of the discipline, history, core theories and methodologies, and approaches to information science, with an emphasis on the critical role of information technology. Majors only or permission of instructor.

LIS 3352 Interaction Design (3) AS LIS
PR: LIS 3353.
Covers the process of interaction design with an emphasis on a user-centered approach. Major topics include cognition; user needs assessment, interface design, modeling, prototyping, usability testing, and evaluation. Majors only or permission of instr.

LIS 3353 IT Concepts for Information Professionals (3) AS LIS
Covers the history, development, and current state of computer hardware and software. Also examines programming basics, networks, the internet and web, emerging technologies, information industries, and careers. Majors only or permission of instructor.
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LIS 3361 World Wide Web Page Design and Management (3) AS LIS
Covers a variety of strategies in designing and maintaining effective World Wide Web pages for publication on the Internet.

LIS 3783 Information Architecture (3) AS LIS
PR: LIS 3103.
Covers design, organization, implementation, and maintenance of digital information spaces for human access, navigation, and use. Examines core concepts and dominating technologies in IA. Majors only or permission of instructor.

LIS 4204 Information Behaviors (3) AS LIS
PR: LIS 3261
Theories and issues surrounding various information behaviors, such as information needs, seeking, and use, and understanding the practices of information professionals and design of information systems. Majors only or permission of instructor.

LIS 4365 Web Design Technologies (3) AS LIS
PR: LIS 3361
Exploration of advanced applications of key Web Technologies. Majors only or permission of instructor.

LIS 4414 Information Policy and Ethics (3) AS LIS
Examines issues related to information use in today's society. Topics include governmental regulations and policies, information literacy, digital divide, information ethics, and intellectual property issues. Majors only or permission of instructor.

LIS 4482 Networks and Communication (3) AS LIS
PR: LIS 3353.
This course is designed to provide a solid foundation in data communication and networking. Topics include local area networks (LANs), wide area networks (WANs), protocols used to implement networks & management issues of IT professionals. Majors or PI.

LIS 4930 Selected Topics in Information Studies (3) AS LIS
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 5020 Foundations of Library and Information Science (3) AS LIS
Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 5268 Microcomputer Applications Library and Information Centers (3) AS LIS
Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.

LIS 5315 Instructional Graphics (3) AS LIS
Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV in Schools and Libraries (3) AS LIS
Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5418 Health Informatics for Medical Librarians (3) AS LIS
PR: LIS 5020 or LIS 6620
CR: LIS 6475.
Introduction to the interdisciplinary field of medical informatics highlighting the underlying theories, and methods related to health information technology in support of decision-making, problem-solving, and other health information problems.

LIS 5566 Multicultural Literature for Children and Young Adults (3) AS LIS
Students will select and evaluate multicultural and special population materials for effective use in youth services and programs in public and school libraries.

LIS 5937 Selected Topics in Library Studies (1-4) AS LIS
Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

LIT 2000 Introduction to Literature CAHU 6AC SGEH (3) AS ENG
This course will introduce students to the three major literary forms of prose, poetry and drama as well as to various "schools" of literary criticism. Will not count toward the English major.

LIT 2010 Introduction to Fiction CAHU 6AC (3) AS ENG
A study of the short story and novel as literary forms; approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

LIT 2020 Introduction to the Short Story CAHU HHCP 6AC (3) AS ENG
Introduction to the formal elements of the short story, analysis and interpretation, application of major types of literary criticism, the history of the genre and its interaction with its social context. Will not count toward the English major.

LIT 2030 Introduction to Poetry CAHU 6AC (3) AS ENG
A study of the poem as literary form: approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

LIT 2040 Introduction to Drama CAHU 6AC (3) AS ENG
This course will introduce students to the literary form of drama as well as to the various "schools" of literary criticism. Will not count toward the English major.

LIT 3022 Modern Short Prose (3) AS ENG
PR: ENC 1101 and ENC 1102.
This course for English majors and minors explores modern short prose in World, British, and American literatures; genres include the short story, the long short story, the short novel, and the essay. Not repeatable.

LIT 3031 Survey of Poetry (3) AS ENG
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the CRW (Poetry emphasis) Option.

LIT 3043 Modern Drama (3) AS ENG
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

LIT 3093 Contemporary Literature (3) AS ENG
An introduction to the fiction, poetry, and drama written since 1945—American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

LIT 3101 Literature of the Western World Through the Renaissance (3) AS ENG
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

LIT 3102 Literature of the Western World Since the Renaissance (3) AS ENG
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

LIT 3103 Great Literature of the World WRIN 6AC (3) AS ENG
A survey of world literature including samples from the ancient and modern era, Western and Eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.

LIT 3144 Modern European Novel 6AC (3) AS ENG
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

LIT 3155 Twentieth-Century Literature WRIN 6AC (3) AS ENG
Examines major literary works of the 20th Century written in English and explores ways authors have expressed the age, its great issues and conflicts, in order to gain an historical perspective that will help relate the present to the recent past. Will not count toward the English major.

LIT 3301 Cultural Studies and the Popular Arts WRIN 6AC (3) AS ENG
A study of American and international cultures as they are represented in the film, fiction, and other cultural artifacts of various ethnic groups and nationalities. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.

LIT 3374 The Bible As Literature WRIN 6AC (3) AS ENG
Major emphasis on literary types, literary personalities of the Old (Fall semester) and New (Spring semester) Testaments, and Biblical archetypes of British and American literary classics. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. May be taken twice for credit with different subject matter. May count once toward the major.

LIT 3383 The Image of Women in Literature WRIN 6AC (3) AS ENG
This course seeks to trace the origins of contemporary views about women, to analyze major Eastern and Western literary portrayals of women, to examine ideas about women's roles, and to compare and contrast cultural and racial images of women. Will not count toward the English major.

LIT 3410 Religious and Philosophical Themes (3) AS ENG
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

LIT 3451 Literature and the Occult WRIN 6AC (3) AS ENG
An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literature. Focuses on values/ethics, race/ethnicity and gender; thinking and writing skills. Will not count toward the English major.

LIT 3930 Special Topics in English Studies (3) AS ENG
The study of variable specialized areas of literary interest, suitable for junior and senior English majors. Topics will vary according to student interest and instructor expertise. May be taken twice for credit with different topics.

LIT 4233 Postcolonial Literature (3) AS ENG
This course is a critical introduction to Postcolonial Literature. We will strive to understand the colonial encounter as it has shaped and continues to shape global modernity and some of the new literature in its cultural and historical contexts.

LIT 4386 British and American Literature by Women 6AC (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.

**LIT 4804 Literature as Cultural Study (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 count toward the English major.

**LIT 4930 Selected Topics in English Studies (1-3) 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.

**LIT 4932 Selected World Authors (3) AS ENG**
PR: ENC 1102
Course examines selected world authors, beyond England and/or the United States, showing how the work of a particular writer, or group of writers, intersect with global, economic, social, and political concerns, as well as literary and cultural movements.

**LIT 4933 World Literary Movements And Genres (3) AS ENG**
PR: ENC 1102
Examines in-depth a selected movement and/or genre of world literature (romanticism, postcolonialism, african fiction, etc.): building upon skills in survey courses, class requires intensive reading, a grasp of current scholarship, and rigorous writing.

**LNW 4501 Seneca and Roman Philosophy (3) AS WLE**
Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

**LNW 4644 Cicero (3) AS WLE**
Readings in the epistles of Cicero.

**LNW 4654 Horace (3) AS WLE**
Readings in the Odes and Epodes of Horace; study of the Ode’s tradition.

**LNW 4900 Directed Reading (1-4) AS WLE**

**LNW 4930 Selected Topics (3) AS WLE**
Study of an author, movement, or theme.

**LNW 5900 Directed Reading (1-4) AS WLE**

**LNW 5934 Selected Topics (4) AS WLE**
Study of an author, movement, or theme.

**MAA 4211 Intermediate Analysis I 6AM (3) AS MTH**
PR: MAC 2313 and MAS 3105.
Sequences, series, metric spaces, continuity, differentiation.

**MAA 4212 Intermediate Analysis II 6AM (3) AS MTH**
PR: MAA 4211.
Riemann-Stieltjes integration, uniform convergence, and related topics.

**MAA 4402 Complex Variables 6AM (3) AS MTH**
PR: MAP 2302
Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy theorem, Cauchy integral formula, residue theory.

**MAA 5306 Real Analysis I (3) AS MTH**
PR: MAA 4211.
Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R.

**MAA 5307 Real Analysis II (3) AS MTH**
PR: MAA 5306.
Metric spaces, Banach spaces, and function spaces; measure and integration on abstract spaces.

**MAA 5405 Applied Complex Analysis (3) AS MTH**
Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

**MAC 1105 College Algebra CAMA 6AM SGEM (3) AS MTH**
PR: C (2.0) or better in MAT 1033, or 490 or better SAT Math score, or 21 or better ACT Math score, or 90 or better Elementary Algebra CPT score, or 40 or better College-Level Math CPT score.
Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications. College Algebra may be taken either for General Education credit or as preparation for a pre-calculus course.

**MAC 1114 Precalculus Trigonometry 6AM (2) AS MTH**
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score.
CPR: MAC 1140.
Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates.

**MAC 1140 Precalculus Algebra 6AM (3) AS MTH**
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score.
CPR: MAC 1114.
Review of functions and graphs. Analytic geometry including conic sections and rotation of axes, systems of equations including matrix algebra and determinants, sequences and series including Binomial Theorem.

**MAC 1147 Precalculus Algebra and Trigonometry CAMA 6AM (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.
This is an accelerated combination of MAC 1140 and MAC 1114; this course is best for students...
who have already seen some trigonometry. See the descriptions of MAC 1140 and MAC 1114.

MAC 2233 Business Calculus CAMA 6AM (3) 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 1147, or 590 or better SAT Math score, or 26 or better ACT Math score, or 78 or better College-Level Math CPT score.
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 CAMA 6AM (3)
PR: C (2.0) or better in MAC 1114, 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.
No credit for math majors. Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to life sciences.

MAC 2242 Life Sciences Calculus II CAMA 6AM (3)
PR: C (2.0) or better in MAC 2241.
Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials.

MAC 2281 Engineering Calculus I CAMA 6AM (4)
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score.
Differentiation, limits, differentials, extremes, indefinite integral. No credit for mathematics majors.

MAC 2282 Engineering Calculus II CAMA 6AM (4)
PR: C (2.0) or better in MAC 2281.
Definite integral, trigonometric functions, log, exponential, series, applications.

MAC 2283 Engineering Calculus III 6AM (4) AS MTH
PR: C (2.0) or better in MAC 2282.
Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications.

MAC 2311 Calculus I CAMA 6AM SGEM (4) AS MTH
PR: C (2.0) or better in MAC 1144 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score.
Differentiation, limits, differentials, extremes, indefinite integral.

MAC 2312 Calculus II CAMA 6AM (4) AS MTH
PR: C (2.0) or better in MAC 2311.
Antiderivatives, the definite integral, applications, series log, exponential and trig functions.

MAC 2313 Calculus III 6AM (4) AS MTH
PR: C (2.0) or better in MAC 2312.
Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals.

MAD 3107 Discrete Mathematics 6AM (3) AS MTH
PR: MAC 2281 or MAC 2311.
An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

MAD 4203 Introduction to Combinatorics (3) AS MTH
PR: MGF 3301.
Fundamental principles of counting. Topics include bijective proofs, arrangements and permutations, sets and multisets, the Principle of Inclusion-Exclusion, partitions, generating functions, recurrence relations, and the Polya theory of counting.

MAD 4301 Introduction to Graph Theory (3) AS MTH
PR: MGF 3301.
Fundamental principles of Graph Theory, including isomorphism, trees and connectivity, Eulerian circuits, Hamiltonicity, matching theory, planarity, graph colorings, Ramsey theory, and graph algorithms.

MAD 4401 Numerical Analysis I 6AM (3) AS MTH
PR: MAP 2302 and MAS 3105.
Numerical solution of algebraic and transcendental equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solution of differential equations.

MAD 4402 Numerical Analysis II (3) AS MTH
PR: MAD 4401.

MAD 4471 Introduction to Cryptography and Coding Theory (3) AS MTH
PR: MAS 3105 and MGF 3301.
Cryptology combines the studies of cryptography, the creating of masked messages, and cryptanalysis, the unraveling of masked messages. Coding theory is the study of coding schemes used to detect and correct errors that occur during the data transmission.

MAD 4504 Theory of Computation 6AM (3) AS MTH
PR: MGF 3301 or MAD 3100.
COURSE DESCRIPTIONS

INDUCTIVE DEFINITION OF FUNCTIONS AND BASIC
COMPUTABLE FUNCTIONS. INTRODUCTION TO
COMPUTATIONAL COMPLEXITY.

MAE 5101 LISP: PROGRAMMING WITH ALGEBRAIC
APPLICATIONS (3) AS MTH
PR: MHF 5306 OR MAD 6510 OR MAS 5311
PROGRAMMING IN LISP, FUNCTIONAL LANGUAGES,
FOUNDATIONS OF LAMBDA CALCULUS AND ALGEBRAIC
APPLICATIONS (THEOREM PROVING AND GAME PLAYING).

MAE 5305 GRAPH THEORY (3) AS MTH
PR: MAS 3105
BRIEF INTRODUCTION TO CLASSICAL GRAPH THEORY (4-COLOR
THEOREM, ETC.), DIRECTED GRAPHS, CONNECTED
DIGRAPHS, CONDENSATIONS, INCIDENCE MATRICES,
POLYA'S THEOREM, NETWORKS.

MAE 3224 MIDDLE SCHOOL MATHEMATICS METHODS
COURSE 1 (3) ED EDI
THIS COURSE PROVIDES PROSPECTIVE MIDDLE SCHOOL
TEACHERS WITH INITIAL SKILLS TO DEVELOP AN INQUIRY-
BASED LEARNING ENVIRONMENT THAT FACILITATES HIGH
ACADEMIC ACHIEVEMENT FOR ALL STUDENTS, FOCUSING
ON CURRICULUM AND LEARNING AT THE TASK AND LESSON
LEVEL.

MAE 3225 MIDDLE SCHOOL MATHEMATICS METHODS
COURSE 2 (3) ED EDI
PR: MIDDLE SCHOOL MATHEMATICS RESIDENCY
PROGRAM METHODS COURSE 1
THIS COURSE PROVIDES PROSPECTIVE MIDDLE SCHOOL
TEACHERS WITH ADVANCED SKILLS TO DEVELOP AN
INQUIRY-BASED LEARNING ENVIRONMENT THAT FACILITATE
HIGH ACADEMIC ACHIEVEMENT FOR ALL STUDENTS,
FOCUSING ON ASSESSMENT AND LEARNING AT UNIT AND
SEMESTER LEVELS.

MAE 3941 PRACTICUM I: MIDDLE SCHOOL
MATHEMATICS EDUCATION (1-3) ED EDI
THE CANDIDATE WILL SPEND SIX HOURS A WEEK IN AN
ASSIGNED SCHOOL, BECOMING ACQUAINTED WITH THE
MIDDLE GRADES CLASSROOM, AND PROVIDING
SUPERVISED ONE-ON-ONE, SMALL GROUP AND WHOLE
GROUP INSTRUCTION AND WILL ATTEND UNIVERSITY
SEMINARS.

MAE 3942 PRACTICUM II: MIDDLE SCHOOL
MATHEMATICS EDUCATION (1-3) ED EDI
CANDIDATES WILL SPEND NINE HOURS A WEEK IN AN
ASSIGNED SCHOOL, IN A GRADE LEVEL OR SUBJECT AREA
OTHER THAN THE ONE COMPLETED IN PRACTICUM I,
PROVIDING SUPERVISED ONE-ON-ONE, SMALL GROUP,
AND WHOLE GROUP INSTRUCTION, AND WILL ATTEND
UNIVERSITY SEMINARS.

MAE 4310 TEACHING ELEMENTARY SCHOOL (K-6)
MATHEMATICS I (3) ED EDE
PR: TWO COLLEGE LEVEL MATHEMATICS COURSES
METHODS FOR TEACHING NUMBER IDEAS, COMPUTATION
SKILLS, AND MATHEMATICAL REASONING IN ELEMENTARY
(K-6) CLASSROOMS.

MAE 4320 TEACHING MATHEMATICS IN THE MIDDLE
GRADES (3) ED EDI
THIS COURSE PROVIDES PROSPECTIVE MIDDLE SCHOOL
TEACHERS THE OPPORTUNITY TO DEVELOP CONCEPTS,
SKILLS, AND PEDAGOGICAL PROCEDURES FOR EFFECTIVE
TEACHING OF MATHEMATICS IN GRADES 5-9.

MAE 4326 TEACHING ELEMENTARY SCHOOL (K-6)
MATHEMATICS II (3) ED EDE
PR: MAE 4310.
METHODS FOR TEACHING INFORMAL GEOMETRY,
MEASUREMENT, PROBABILITY, STATISTICS, AND
ALGEBRAIC THINKING FOR ELEMENTARY SCHOOL (K-6)
CLASSROOMS.

MAE 4330 TEACHING SENIOR HIGH SCHOOL
MATHEMATICS (3) ED EDI
PR: MAE 4320
THE COURSE IS DESIGNED TO PREPARE THE STUDENT FOR
A SUCCESSFUL INTERNSHIP EXPERIENCE AS WELL AS AN
INDUCTION TO TEACHING MATHEMATICS IN THE HIGH
SCHOOLS OF TODAY. THE EXPERIENCES HELP BRIDGE THE
PERCEIVED GAP BETWEEN THEORY AND PRACTICE.

MAE 4551 READING THE LANGUAGE OF MATHEMATICS
(3) ED EDI
PR: MAE 4320
THIS COURSE PROVIDES AN OPPORTUNITY TO DEVELOP
CONCEPTS, SKILLS AND PROCEDURES FOR EFFECTIVE
COMMUNICATION (READING, WRITING, LISTENING AND
SPEAKING) IN THE MATHEMATICS CURRICULUM. THE
STATE DOE REQUIRED PREPARATION IN BASIC READING IS
COVERED.

MAE 4652 TECHNOLOGY FOR TEACHING SECONDARY
SCHOOL MATHEMATICS (3) ED EDI
THIS COURSE PROVIDES PROSPECTIVE TEACHERS AN
OPPORTUNITY TO DEVELOP CONCEPTS, SKILLS, AND
INSTRUCTIONAL PROCEDURES FOR INTEGRATING TECHNOLOGY
FOR TEACHING IN SECONDARY MATHEMATICS
CLASSROOMS. THE COURSE IS RESTRICTED TO MAJORS.

MAE 4653 TECHNOLOGY FOR TEACHING SECONDARY
SCHOOL MATHEMATICS II (3) ED EDI
PR: MAE 4652
THIS COURSE PROVIDES PROSPECTIVE MATHEMATICS
TEACHERS WITH AN OPPORTUNITY TO DEVELOP CONCEPTS,
SKILLS AND INSTRUCTIONAL PROCEDURES FOR EFFECTIVELY
INTEGRATING TECHNOLOGY INTO TEACHING ALGEBRA AND
DATA ANALYSIS INTO THE SECONDARY MATHEMATICS
CURRICULUM.

MAE 4909 DIRECTED STUDY: MATHEMATICS EDUCATION
(1-3) ED EDI
TO EXTEND COMPETENCY IN TEACHING FIELD.

MAE 4936 SENIOR SEMINAR IN MATHEMATICS
EDUCATION CPST (3) ED EDI
CR: MAE 4940
SYNTHESIS OF TEACHER CANDIDATE'S COURSES IN
COMPLETE COLLEGE PROGRAM.

MAE 4940 INTERNSHIP: MATHEMATICS EDUCATION (1-
12) ED EDI
CR: MAE 4936
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.

MAE 4941 INTERNSHIP I: MIDDLE SCHOOL
MATHEMATICS EDUCATION (1-12) ED EDI
CANDIDATES WILL SPEND EACH DAY OF THE SEMESTER IN
AN ASSIGNED SCHOOL IMPLEMENTING ACQUIRED
KNOWLEDGE FROM PRACTICUM I AND II, WITH INCREASED
responsibility for planning instruction and assessing student learning, and will attend internship seminars.

MAE 4942 Internship II: Middle School Mathematics Education (1-12) ED EDI
Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.

MAE 4945 Practicum in Mathematics Education (3) ED EDI
PR: MAE 4320 and MAE 4652.
This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary mathematics classrooms. Course is restricted to majors.

MAN 3025 Principles of Management (3) BA QMB
Examines intrapersonal, interpersonal, group/team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

MAN 3240 Organizational Behavior Analysis (3) BA QMB
PR: MAN 3025.
The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

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

MAN 3401 Industrial Relations (3) BA QMB
Conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment.

MAN 4063 Management Ethics (3) BA MKT
PR: MAN 3025.
Examines moral and ethical responsibilities of managing organizations at the personal, interpersonal, and organizational level.

MAN 4129 Theory and Practice of Management Skills (3) BA QMB
This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

MAN 4280 Organizational Development and Change (3) BA QMB
PR: MAN 3240
A lab course where students experimentally apply behavioral science techniques in an "action-research" framework to the cycle of planned change so as to build a more effective organization.

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

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

MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (3) BA QMB
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4441 Negotiation and Conflict Resolution (3) BA QMB
PR: MAN 3025, MAN 3240.
Examines what conflict is, how it occurs, and how it can be managed through negotiation, particularly in the workplace.

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 4600 International Management (3) BA QMB
PR: MAN 3025
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 4631 Global Perspectives and Management Choices (3) BA QMB
PR: FIN 3403, MAN 3025, MAR 3023. Two upper-level international courses.
Capstone course for IB major. Integrates business core, International business, concentration, area studies & required overseas experience information. Synthesizes theoretical and practical aspects of doing business in an increasingly global environment.

MAN 4702 Disaster Recovery and Business Continuity Planning (3) AS LIS
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>MAP 5345</td>
<td>Applied Partial Differential Equations (3) AS MTH</td>
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<tr>
<td>MAP 2302</td>
<td>Differential Equations 6AM (3) AS MTH</td>
<td>MAC 2283, MAC 2313.</td>
</tr>
<tr>
<td>MAP 4341</td>
<td>Introduction to Partial Differential Equations (3) AS MTH</td>
<td>MAP 2302, MAS 3105.</td>
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<tr>
<td>MAP 3023</td>
<td>Basic Marketing (3) BA MKT</td>
<td>ACG 2021, ACG 2071, MAR 3023.</td>
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<tr>
<td>MAN 4931</td>
<td>Independent Research (1-4) BA QMB</td>
<td>MAN 3240, MAN 3301, MAN 4282.</td>
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<tr>
<td>MAN 4940</td>
<td>Management Internship (3) BA QMB</td>
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<tr>
<td>MAN 4930</td>
<td>Selected Topics in Management (1-3) BA QMB</td>
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<td>MAN 4905</td>
<td>Independent Study (1-3) BA QMB</td>
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<tr>
<td>MAN 4804</td>
<td>Small Business Management Counseling (3) BA MKT</td>
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<td>MAN 2931</td>
<td>Selected Topics in Marketing (1-3) BA MKT</td>
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<td>MAP 3400</td>
<td>Professional Selling (3) BA MKT</td>
<td>MAR 3023.</td>
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<tr>
<td>MAP 5316</td>
<td>Ordinary Differential Equations I (3) AS MTH</td>
<td>MAP 2302, MAS 3105.</td>
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<tr>
<td>MAP 5317</td>
<td>Ordinary Differential Equations II (3) AS MTH</td>
<td>MAP 5316, MAS 5307.</td>
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<tr>
<td>MAP 5345</td>
<td>Methods of Applied Mathematics (3) AS MTH</td>
<td>MAP 5407.</td>
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<tr>
<td>MAN 4970</td>
<td>Management Honors Thesis (3) BA QMB</td>
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<tr>
<td>MAR 2931</td>
<td>Selected Topics in Marketing (1-3) BA MKT</td>
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<tr>
<td>MAN 4737</td>
<td>Integrated Management Applications (3) BA QMB</td>
<td>MAN 3240, MAN 3301, MAN 4282.</td>
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<tr>
<td>MAN 4802</td>
<td>Entrepreneurship and Small Business Management (3) BA MKT</td>
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</table>

**When organizations are interrupted by disasters, accidents, or natural events, a loss of money, data, and/or productivity occurs. The extent to which the loss affects the organization's health depends on its ability to deal with these disruptions.**

**MAN 4737 Integrated Management Applications (3) BA QMB**

Prerequisites: MAN 3240, MAN 3301, MAN 4282. This capstone course integrates the major topics of management. Students will acquire a broad view of organizations, learning to analyze organizational strengths and weaknesses, and to recommend appropriate actions for improvement.

**MAN 4802 Entrepreneurship and Small Business Management (3) BA MKT**

Prerequisites: ACG 2021, ACG 2071, MAR 3023. Study of the factors involved in starting and managing a small- to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

**MAN 4804 Small Business Management Counseling (3) BA MKT**

Prerequisites: MAN 4802. 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 QMB**

Specialized independent study determined by the students needs and interests.

**MAN 4930 Selected Topics in Management (1-3) BA QMB**

Topics to be selected by instructor and department chairperson for pertinent Management issues.

**MAN 4931 Independent Research (1-4) BA QMB**

Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

**MAN 4940 Management Internship (3) BA QMB**

This course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.

**MAN 4970 Management Honors Thesis (3) BA QMB**

This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

**MAP 2302 Differential Equations 6AM (3) AS MTH**

Prerequisites: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.

**MAP 4202 Optimization (3) AS MTH**

Prerequisites: MAP 2303 and MAS 3105. Linear and nonlinear programming, the simplex method, duality and sensitivity, constrained and unconstrained optimization.

**MAP 4341 Introduction to Partial Differential Equations (3) AS MTH**

Prerequisites: MAP 2302 and MAS 3105. Heat, Laplace, and Wave Equations; Initial and Boundary Value Problems; Separation of Variables; Fourier Series; Sturm-Liouville Problems.

**MAP 5316 Ordinary Differential Equations I (3) AS MTH**

Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

**MAP 5317 Ordinary Differential Equations II (3) AS MTH**

Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

**MAP 5345 Methods of Applied Mathematics (3) AS MTH**

Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.

**MAP 5407**

Methods of Applied Mathematics (3) AS MTH


**MAR 2931 Selected Topics in Marketing (1-3) BA MKT**

Topics to be selected by department chairperson.

**MAR 3023 Basic Marketing (3) BA MKT**

Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

**MAR 3400 Professional Selling (3) BA MKT**

Prerequisites: MAR 3023. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

**MAR 3613 Marketing Research (3) BA MKT**

Prerequisites: QMB 2100, MAR 3023.
A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3823 Marketing Management (3) BA MKT
PR: MAR 3023.
An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

MAR 4156 International Marketing (3) BA MKT
PR: MAR 3023.
A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the 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.
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, both large and small.

MAR 4333 Promotion Management (3) BA MKT
PR: MAR 3023.
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.
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 to marketing are emphasized.

MAR 4824 Marketing Management Problems (3) BA MKT
PR: MAR 3613, MAR 3823, and MAR 3203 or 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. Restricted to Marketing majors.

MAR 4903 Independent Research (1-3) BA MKT
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
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.

MAR 4940 Marketing Internship/Practicum (3) BA MKT
This course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.

MAR 4970 Marketing Honors Thesis (3) BA MKT
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

MAS 3105 Linear Algebra 6AM (3) AS MTH
CPR: 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 3108 Algebra Connections (3) AS MTH
PR: Calculus I.
This course will provide prospective teachers with experiences that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Department</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS 3156</td>
<td>Vector Calculus 6AM (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MAS 3205</td>
<td>Number Concepts Connections (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>This course will provide prospective teachers with experiences in number theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.</td>
</tr>
<tr>
<td>MAS 4214</td>
<td>Elementary Number Theory 6AM (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruencies, numbers functions and other selected topics.</td>
</tr>
<tr>
<td>MAS 4301</td>
<td>Elementary Abstract Algebra 6AM (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>An introduction to the basic algebraic structures; groups, rings, integral domains, and fields; homeomorphisms and isomorphisms.</td>
</tr>
<tr>
<td>MAS 4392</td>
<td>Elementary Abstract Algebra II (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>This course is a continuation of Elementary Abstract Algebra, where advanced topics in abstract algebra, including ring theory and field theory; introduction to Galois theory are taught.</td>
</tr>
<tr>
<td>MAS 5145</td>
<td>Advanced Linear Algebra (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-ad joint operators and quadratic forms.</td>
</tr>
<tr>
<td>MAT 1033</td>
<td>Intermediate Algebra (3) ED EDI</td>
<td>EDI</td>
<td>3</td>
<td>This course provides students with an opportunity to develop algebraic knowledge needed for further study in several fields such as engineering, business, science, computer technology, and mathematics.</td>
</tr>
<tr>
<td>MAT 4930</td>
<td>Selected Topics in Mathematics 6AM (1-3) AS MTH</td>
<td>Home</td>
<td>1-3</td>
<td>The course content will depend on the interest of faculty members and student demand.</td>
</tr>
<tr>
<td>MAT 4970</td>
<td>Mathematics Senior Thesis 6AM (3) AS MTH</td>
<td>Home</td>
<td>3</td>
<td>Course restricted to mathematics majors.</td>
</tr>
<tr>
<td>MCB 2000</td>
<td>Microbiology for Nursing and other Healthcare Professionals (3) NR NUR</td>
<td>Health</td>
<td>3</td>
<td>Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.</td>
</tr>
<tr>
<td>MCB 2000L</td>
<td>Microbiology Lab for Nursing and other Healthcare Professionals (1) NR NUR</td>
<td>Health</td>
<td>1</td>
<td>Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.</td>
</tr>
<tr>
<td>MCB 3020</td>
<td>General Microbiology (3) AS BCM</td>
<td>Health</td>
<td>3</td>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.</td>
</tr>
</tbody>
</table>
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.
Structure and function of bacteria, archaea, viruses, and eukaryotic microbes.

**MCB 3020L General Microbiology Laboratory (1)**
AS BCM
CR: MCB 3020
The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease.

**MCB 3410 Cell Metabolism (3) AS BCM**
PR: BIO 2010 and BIO 2010L
CR: CHM 2045
This course will provide a broad framework and overview of major metabolic pathways that occur in living cells with emphasis on integration and regulation of those pathways. For majors and non-majors.

**MCB 4115 Determinative Bacteriology (3) AS BCM**
PR: MCB 3020, CHM 2210, MAC 1105 or higher-level MAC course or STA 2023.
P: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens.

**MCB 4115L Determinative Bacteriology Laboratory (2) AS BCM**
CR: MCB 4115
Laboratory associated with Determinative Bacteriology.

**MCB 4202 Ecology of Infectious Diseases (3) AS BIN**
The ecology of pathogenic microorganisms.
Topics include host-parasite interactions, microbial survival strategies, microbial virulence, and environmental influences on the maintenance and spread of disease.

**MCB 4313 Industrial Microbiology and Biotechnology (3) AS BCM**
PR: MCB 3020
This course focuses on advanced principles of industrial microbiology/biotechnology. It will expose student to the many applications of industrial microbiology in daily life and through this exposure visualize future entrepreneurial opportunities.

**MCB 4320 Molecular Microbiology (3) AS BCM**
PR: MCB 3020, PCB 3023, PCB 3063.
Lecture based course building on principles from gen. microbiology to explore advanced topics in molecular microbiology. Emphasis is on: molecular genetics of bacteria and bacteriophages and genetic regulation of responses to the natural environment.

**MCB 4404 Microbial Physiology and Genetics (3) AS BIN**
PR: MCB 3020 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.
P: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
Physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. Emphasizes the interdependence of physiological and genetic approaches. Lecture only.

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

**MCB 4503 Virology (3) AS BCM**
PR: MCB 3020 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.
P: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenses, and interactions with host cells.

**MCB 4905 Microbiology Undergraduate Research (1-4)**
AS BCM
PR: CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.

**MCB 4933 Selected Topics in Microbiology (1-3)**
AS BCM
This course covers various topics in microbiology. The content varies depending on student demand and instructor interest.

**MCB 4934 Seminar in Microbiology (1)**
AS BCM

**MCB 5206 Public Health and Pathogenic Microbiology (3) AS BCM**
PR: MCB 3020
A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

**MCB 5208 Cellular Microbiology (3) AS BCM**
PR: PCB 3023 ; MCB 3033
Cellular Microbiology is a lecture-based and literature-based course on the interactions between mammalian cells and microbial pathogens and/or their toxins, with a special emphasis on bacteria.
MCB 5655 Applied and Environmental Microbiology (3) AS BIN
PR: MCB 3020
A Study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.

MCB 5815 Medical Mycology (3) AS BCM
PR: MCB 3020
A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

MET 2010C Weather Studies (4) AS SGS
Weather Studies covers the structure, composition, and physical basis of the atmosphere. Topics include atmospheric composition and structure, energy and moisture flows, observations, cloud and precipitation development, circulations and weather systems. This course includes several integrated lab investigations.

MET 4002C Climatology (4) AS SGS
PR: GEO 2200
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. This course includes several integrated lab investigations.

MET 4012C Meteorology (4) AS SGS
PR: GEO 2200
The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation. Lecture/lab.

MET 4106C Climate Studies (4) AS SGS
PR: GEO 2200 or MET 4012C or MET 2010. Information will be provided on the climate system, the scientific principles that govern climate, its variability and change with implications for society and risk management strategies aimed at counteracting negative impacts of global climate change. This course includes several integrated lab investigations.

MGF 1106 Finite Mathematics CAMA 6AM SGEM (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 1107 Mathematics for Liberal Arts CAMA 6AM SGEM (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.

This terminal course is 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 3301 Bridge to Abstract Mathematics 6AM (3) AS MTH
CPR: MAC 2313 or MAC 2283.
Techniques and logic of the construction of proofs. Topics will be selected from propositional logic, set theory, relations and functions, equivalence relations, Boolean algebra, cardinality, and limits.

MHF 4403 The Early History of Mathematics 6AM (3) AS MTH
PR: MAC 2312
A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 4406 The History of Modern Mathematics 6AM (3) AS MTH
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
Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

MHF 5402 The Early History of Mathematics (3) AS MTH
PR: MAC 2312
A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 5405 History of Modern Mathematics (3) AS MTH
PR: MAC 2313.
Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MHS 3062 Behavioral Healthcare Services for Older Adults (3) BC MHL
This course provides an overview of behavioral health disorders, service sectors, service utilization, and evidence-based service delivery models for older adults with behavioral health issues.

MHS 3204 Fundamentals of Applied Behavior Analysis (3) BC CFS
The Fundamentals of Applied Behavior Analysis (ABA) course provides the student with information in the form of lectures, demonstrations, and practical exercises on the basic principles and procedures of the field of ABA.
MHS 4203 Practical Skills-Children's Behavioral Healthcare (3) BC CFS
PR: MHS 4490
Students will apply system of care values and principles to children's behavioral health services in the assessment of family needs and strengths, working with teams to achieve goals, and development, implementation and evaluation of support plans.

MHS 4206 Applied Behavioral Analysis in Autism and Development Disabilities (3) BC CFS
PR: MSH 4202.
ABA in Autism and Developmental Disabilities covers the history of autism and developmental disabilities, developmental milestones, skills assessment, developing programs, verbal behavior, and programming for generalization and maintenance.

MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment (3) BC MHL
PR: MHS 3411
This course explores exemplary clinical practices in public behavioral health service delivery. Best or exemplary practices are defined as those that have both a track record and their efficacy has been empirically validated. Modules may begin with a historical perspective of the treatment of a specific population or a treatment strategy but will primarily focus on emerging methodologies.

MHS 4412 Research Methods and Ethical Issues in Behavior Analysis (3) BC CFS
PR: MHS 4202.
How to identify ethical principles and practices in behavior analysis as well as how to implement various single subject research and group designs; write literature reviews and research proposals; and complete the IRB process.

MHS 4425 Field Experience in Behavioral Healthcare CPST (3) BC MHL
PR: MHS 3411, MHS 4002, MHS 4408
This experiential class allows the student to observe and participate with multidisciplinary staff of a provider agency. The student will attend team meetings, observe individual, group, and case management services. Assignments will be made to maximize the student’s time investment in the field. Observations and experiences will be discussed in biweekly class meetings. Students are required to spend 120 hours (an average of 8 hours per week for 15 weeks) in an agency. Advisor approval required two months in advance of semester.

MHS 4434 Behavioral Health and the Family (3) BC REH
This course covers ways that illness/injury affect the family of a person who is ill or injured; how family relations/behavioral patterns affect healing and return to good health; and how MH professionals serve families struggling with an ailing loved one.

MHS 4452 Co-Occurring Disorders (3) BC MHL
This unrestricted course is designed to introduce the topic of co-occurring disorders, impart their knowledge and understanding, and teach skills needed to apply for and obtain employment in behavioral healthcare. It is not repeatable for credit.

MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency (3) BC MHL
This survey course will cover a range of topics pertinent to the observation and recognition of drug use and abuse behavior, focusing on a knowledge base useful in applied (treatment) settings, and public and non-profit drug-policy institutions.

MHS 4454 Alcohol Drugs and Crime (3) BC MHL
This course will provide an overview of research and clinical techniques related to the assessment, diagnosis and treatment of alcohol/drug use and the intersection with criminal behavior and the criminal justice system.

MHS 4455 Drug Abuse Prevention and Treatment (3) BC MHL
This course will provide students with an orientation to drug abuse in the U.S., and introduce them to the most commonly used prevention and treatment techniques. The impact of important drug legislation will also be discussed.

MHS 4463 Suicide Issues in Behavioral Health (3) BC CFS
Students explore the psychological and social factors contributing to suicide-related behaviors. Lectures, group activities, and guest speakers help students better understand the dynamics of suicide and the processes of assessment and interventions.

MHS 4490 Behavioral Healthcare Issues for Children (3) BC CFS
Students explore children's mental health field, systems of care for children and their families. Lectures, group activities, & guest speakers help examine children's mental health treatment, service delivery, case management, & wraparound processes.

MHS 4703 Legal, Ethical and Professional Issues in BHC (3) BC MHL
Behavioral healthcare professionals are expected to adhere to professional codes and respect legal rights of clients. Course investigates legal and ethical issues that influence the practice and helps students develop skills in ethical decision-making.

MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences WRIN 6AC (3) BC MHL
This course is a writing intensive exit course that fulfills the Gordon rule requirement. Students will develop a research problem statement, complete a literature review, and learn to prepare manuscripts for publication.

MHS 4741 Applied Research Methods (3) BC MHL
This course provides students with the opportunity to apply knowledge gained in research methods classes to contemporary problems in the behavioral sciences using quantitative and qualitative methods.

MHS 4905 Independent Study: Guidance and Counseling Education (1-4) ED EDF
Specialized independent study determined by the student's needs and interests.

MHS 4906 Directed Study (1-4) BC MHL
Directed study. Student must have a contract with an instructor.

MHS 4912 Independent Research in Behavioral Health (1-4) BC MHL
PR: 1 course in statistics; 1 course in research methods.
Students will conduct an independent research project in behavioral health (mental health and/or substance abuse) under the guidance of a faculty mentor. May be repeated for maximum of 8 credits.

MHS 4931 Selected Topics (1-3) BC MHL
The course content will depend on student demand and instructor's interest. The course may be repeated for different topics up to 9 hours.

MHS 4943 Practicum Seminar in Applied Behavior (3) BC CFS
CPR: MHS 4202 and Intervention Planning in ABA.
How to find a quality placement in the community in order to become certified as an Assistant Behavior Analyst, navigate the Behavior Analyst Certification Board process, and receive training on current ABA technologies.

MHS 5020 Foundations of Mental Health Counseling (3) BC REH
A skill-building course on the utilization of one's self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.

MHS 5480 Human Growth and Development (3) BC REH
Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

MHS 5721 BRIDGE Proseminar I (2) BC MHL
This course is designed to provide students with the necessary skills for successfully applying for and transitioning into a graduate training program in the social and behavioral sciences.

MHS 5722 BRIDGE Pro Seminar II (2) BC MHL
Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences. It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

MHS 5745 Applied Qualitative Research Methods (3) BC MHL
This course is designed to provide students with an understanding of applied qualitative research methods and to assist them where appropriate in applying these methods to their mentored research projects being conducted as part of the BRIDGE certification.

MHS 5746 Applied Quantitative Research Methods (3) BC MHL
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

Reviews quantitative research methods while focusing on the application of such concepts in real research contexts preparing students to understand the nature assumptions processes and ethical application of quantitative methodology.

MHS 5889 BRIDGE Community Field Experience (2) BC MHL
Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences. It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

MHS 5905 Directed Studies (1-4) ED EDF
Independent studies on a selected topic.

MLS 4038 Introduction to Medical Technology (1-2) AS CHM
A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, labor.

MLS 4860 Clinical Urinalysis and Body Fluids (2) AS CHM
A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal, and joint fluids.

MLS 4861 Clinical Immunology (2) AS CHM
A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.

MLS 4862 Clinical Hematology (6) AS CHM
A hospital clinical course on cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.

MLS 4863 Clinical Microbiology (6) AS CHM
A hospital clinical course emphasizing pathogens responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.

MLS 4864 Clinical Chemistry (6) AS CHM
A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

MLS 4865 Clinical Immunohematology (6) AS CHM
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.

MLS 4866 Clinical Laboratory Management and Education (1) AS CHM
A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

MMC 2100 Writing for the Mass Media (3) AS COM
PR: grade of "C" in ENC 1101, ENC 1102
An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

MMC 3140 Web Publishing (3) AS COM
PR: JOU 2100, MMC 2100, MMC 3602, VIC 3001.
Course is intended for those with little previous Web design/publishing experience. Course will introduce students to the basic topics, nomenclature, pragmatics, and mechanics involved in Web publishing. Restricted to majors; not repeatable for credit.

MMC 3602 Mass Communications and Society CASB HHCP (3) AS COM
A survey of the history, theory, processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

MMC 4200 History and Principles of Communications Law (3) AS COM
PR: MMC 2100 and MMC 3602.
Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, public relations, and new media.

MMC 4203 Communication Ethics (3) AS COM
PR: MMC 2100 and MMC 3602.
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
Reading and directed study in special topics.

MMC 4910 Individual Research in Mass Communications (1-3) AS COM
The course provides means for a student to do independent study in an area not covered by a numbered course.

MMC 4936 Selected Topics in Mass Communications Studies (1-3) AS COM
PR: MMC 2100, MMC 3602.
Courses designed to meet current or specific topics of interest to instructors and students.

MMC 4945 Internship (1-3) AS COM
Students work for an employer within the field of mass communication to practice skills and apply knowledge.

**MSL 1001C Leadership and Personal Development (2) US MIS**

Introduces to personal challenges & competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, & Army profession; focuses on gaining understanding of ROTC Program & its purpose in Army.

**MSL 1002C Introduction to Tactical Leadership (2) US MIS**

Presents leadership basics (eg: setting direction, problem-solving, listening, briefs, giving feedback & use of effective writing skills); explores dimensions of leadership values, attributes, skills & actions in context of practical hands-on exercises.

**MSL 2101C Innovative Team Leadership (2) US MIS**

Explores creative & innovative tactical leadership strategies & styles. Develops knowledge of leadership values & attributes by understanding Army rank, structure, & duties. Broadens knowledge of land navigation & squad tactics.

**MSL 2102C Foundations of Tactical Leadership (2) US MIS**

Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling & operation orders; develops greater self-awareness, communication & team building skills.

**MSL 2900 Army Physical Readiness (1) US MIS**

This course will train students in the unique role of Army physical readiness in sustaining military operations. It will also prepare students to plan, prepare, and conduct military fitness training. Repeatable for 8 semesters, but only 4 credit hours will be counted toward the program.

**MSL 2901 Basic Leader Training (4) US MIS**

A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to develop/evaluate leadership and officer potential. The course is intentionally stressful and designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MSL 3201C Adaptive Team Leadership (3) US MIS**

Challenges to study, practice, & evaluate adaptive team leadership skills as demands of the ROTC LDAC are presented. Uses challenging scenarios to develop self-awareness & critical thinking skills. Provides specific feedback on leadership abilities.

**MSL 3202C Leadership in Changing Environments (3) US MIS**

Challenges to study, practice, & evaluate adaptive leadership skills as demands of ROTC Leader Development Assessment Course are presented. Develops self-awareness & critical thinking skills with challenging scenarios. Provides feedback on leader skills.

**MSL 4301C Developing Adaptive Leaders (3) US MIS**

Develops ability to plan, & assess complex operations, functioning as member of a staff; provides performance feedback to subordinates; gives opportunities to assess risk, make ethical decisions, & lead fellow cadets; prepares in becoming Army officer.

**MSL 4302C Leadership in a Complex World (3) US MIS**

Explores dynamics of leadership in complex situations of current military operations in current operating environment; examines differences in courtesies, military law, principles of war & rules of engagement in face of international terror & more.

**MTG 3207 Geometry Connections (3) AS MTH**

PR: Calculus I. This course will provide prospective teachers with experiences in geometry that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

**MTG 3212 Geometry 6AM (3) AS MTH**

PR: MAC 2311. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometry.

**MTG 4214 Modern Geometry 6AM (3) AS MTH**

CPR: MAS 4301. Topics will be selected from modern plane geometry. Mobius geometry, elliptic and hyperbolic geometry.

**MTG 4254 Differential Geometry (3) AS MTH**

PR: MAC 2313 (or MAC 2283), MAP 2302 and MAS 3105. The intrinsic geometry of curves and surfaces will be explored using fundamental concepts and techniques from classical differential geometry.

**MTG 4302 Introduction to Topology 6AM (3) AS MTH**

MTG 5316 Topology I (3) AS MTH
PR: MAA 4211.

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

MUC 1211 Freshman Composition and Instrumentation 1 (2) FA MUS
Introduction to Composition is a skill-building course designed for freshman music composition majors. Students will study techniques to ideate, compose, orchestrate, notate and obtain documented performances of their music. (Majors only—not repeatable).

MUC 1212 Freshman Composition and Instrumentation 2 (2) FA MUS
PR: MUC 1211.
Introduction to Composition is a skill-building course designed for freshman music composition majors. Students will study techniques to ideate, compose, orchestrate, notate and obtain documented performances of their music. (Majors only—not repeatable).

MUC 2221 Sophomore Composition and Instrumentation 1 (2) FA MUS
PR: MUC 1212.
Students will complete two large-scale chamber works (continuing to learn to orchestrate for strings and winds), two business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

MUC 2222 Sophomore Composition and Instrumentation 2 (2) FA MUS
PR: MUC 1212.
Sophomore Composition is a two-semester course which requires each student to complete two pieces per semester, two business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

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

MUC 2321 Junior Composition and Instrumentation 1 (2) FA MUS
PR: MUC 2222.
A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of 2 large-scale pieces, one for large wind ensemble.

MUC 2322 Junior Composition and Instrumentation 2 (2) FA MUS
PR: MUC 2321.
A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of 2 large-scale pieces, one for large wind ensemble.

MUC 3231 Junior Composition and Instrumentation 1 (2) FA MUS
PR: MUC 2322.
A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of 2 large-scale pieces, one for large wind ensemble.

MUC 3232 Junior Composition and Instrumentation 2 (2) FA MUS
PR: MUC 3231.
A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of 2 large-scale pieces, one for large wind ensemble.

MUC 3401 Electronic Music-Analog Synthesis I (3) FA MUS
PR: MUC 2301
Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3402 Electronic Music-Analog Synthesis II (3) FA MUS
PR: MUC 2301
Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441 Electronic Music-Digital Synthesis I (3) FA MUS
PR: MUC 3401 or MUC 3402
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) FA MUS
PR: MUC 3401 or MUC 3402
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 Senior Composition and Instrumentation (2) FA MUS
PR: MUC 3232.
A one-semester course which requires each student to complete two pieces, seven business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

MUC 4403 Electronic Music-Real-Time Performance I (3) FA MUS
PR: MUC 3402 and MUC 3442 or equivalent.
Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4404 Electronic Music-Real-Time Performance II (3) FA MUS
PR: MUC 3402 and MUC 3442 or equivalent.
Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4620 Jazz Composition (3) FA MUS
PR: MUT 3354
COURSE DESCRIPTIONS

Private instruction in original jazz composition. Required of all Jazz Studies Comp. majors, minimum six of hours.

MUC 4950 Senior Recital/Project/Portfolio Presentation (2) FA MUS
PR: MUC 4241.
This is course is a "capstone"-type of experience requiring 8th-semester senior to produce and promote 2 concerts: one of his or her own music (on campus), and one with other seniors to be held off campus. A portfolio/database presentation is also required.

MUC 5625 Jazz Composition (2) FA MUS
Private instruction in original composition.

MUE 2090 Foundations of Music Education (3) FA MUS
The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

MUE 3414 Creative Performance Chamber Ensemble (1) FA MUS
PR: MUE 2090.
CR: MUE 3424 or MUE 3425.
This course will provide students opportunities to apply concepts of informal learning, gained through various course work, in a non-traditional, student directed, music education performance setting. The course is repeatable for a total of four credits.

MUE 3421 Choral Techniques (1) FA MUS
A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester.

MUE 3422 Wind Techniques (1) FA MUS
PR: MUG 3104
A two-semester sequence intended to equip music education students with basic performance, pedagogical, and rehearsal techniques, applicable to brass and woodwind instruments and ensembles.

MUE 3423 String Techniques (1) FA MUS
A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester.

MUE 3424 Progressive Music Education Methods I (3) FA MUS
PR: MUE 2090
CR: Creative Performance Chamber Ensemble.
This course will provide students a grounding in methods for music education settings outside the traditional general, band, choir and string programs.

MUE 3425 Progressive Music Education Methods II (3) FA MUS
PR: MUE 3424.
CR: MUE 3414.

This course will provide students a further grounding in methods for music education settings outside the traditional general, band, choir and string programs.

MUE 3475 Percussion Techniques (1) FA MUS
Introduction to percussion pedagogy for the music educator.

MUE 3930 Music Education Forum (1) FA MUS
Discuss 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 4311 General Music Methods (3) FA 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 (3) FA MUS
Development and implementation of methods techniques for teaching secondary school choral music.

MUE 4332 Instrumental Methods (3) FA MUS
PR: MUE 2450, MUE 2460, MVP 1211.
Development and implementation of methods techniques for teaching secondary school instrumental music.

MUE 4480 Special Ensemble Methods (2) FA MUS
This course is restricted to majors and is repeatable for up to 6 credits.

MUE 4936 Senior Seminar In Music WRIN 6AC (3)
PR: MUE 4940
Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

MUE 4940 Internship: Music Education CPST (6-10)
CR: MUE 4936
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) FA MUS
The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

MUG 3108 Advanced Conducting (2) FA MUS
PR: MUG 3104.
Provides USF music education majors with a competency-based lab experience in conducting while placing an emphasis on developing advanced skills necessary to lead an ensemble in rehearsal and performance. Restricted to Music Education Majors.

MUG 4302 Instrumental Conducting (2) FA MUS
PR: MUG 3404
A study of those techniques of conducting unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.

MUH 2020 The History of Blues and Rock CAFA HHCP (3) FA MUS
A study of the history of rock music: its roots, regions and countries of origin, evolution, styles, influences, social/cultural context, etc. Blues and rock are particularly American forms of music, but they reflect ancient practice as well.

MUH 2051 Folk And Traditional Music Of World Cultures CAFA (3) FA MUS
A comparative survey of the stylistic traits and functions of folk and traditional music, both sacred and secular, of diverse Western and non-Western cultures. For non-majors and music education majors; may be taken by applied music majors.

MUH 2632 Music In The United States (3) FA 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 CAFA (3) FA MUS
This course introduces undergraduate students to Jazz music. Students will study historical, cultural and social issues associated with the evolution of jazz music and learn to hear and discern specific musical traits found in jazz music.

MUH 3300 Music History/Medieval And Renaissance (2) FA MUS
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 (3) FA MUS
PR: MUL 2111
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 (3) FA MUS
PR: MUL 2111
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 (3) FA MUS
PR: MUH 2051 or MUL 2111
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 4372 Representing the United States in Music WRIN 6AC (3) FA MUS
This course explores works by twentieth-century composers that define aspects of American life. We will examine a diverse selection of pieces and genres ranging from traditional European art music forms to jazz, rock, and hip hop.

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

MUL 2010 Music and Culture 6AC SGHE (3)
This course is intended to expose students to a variety of music and musical experiences through lecture, discussion, and direct experience involving critical listening. Students will enhance their awareness of the various elements, origins, and developments in music, as well as enrich critical thinking skills related to evaluating music. Students will prepare critiques of musical performances in writing. By the end of the course, the student should have the background for appreciating the major genres of music, as well as having an enhanced ability to appreciate the various primary elements of any musical creation and/or performance.

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

MUL 3001 Issues In Music (2-3) FA MUS
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 3011 Western Art Music in Your Life CAFA (3) FA MUS
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.

MUL 3600 Vocal Literature - Undergraduate (2) FA MUS
PR: Four terms of studio grade. Open to all USF undergraduate vocal performance majors that have completed four terms of vocal study with a passing grade. Other students may petition to enroll with the approval of the instructor. Provides a survey of standard vocal literature.

MUN 1100 University Pep Band and Winter Guard (1-3) FA MUS
Auditions for Pep Band are required for students who did not march in the Fall. Auditions for Winter Guard are required for all members.

MUN 1110 University Marching Band (1-3) FA MUS
This course provides performance experiences with the Marching Band. The course is open to any major area.

MUN 1120 Concert Band (1) FA MUS
The concert band provides music majors and non-major enthusiasts the opportunity to rehearse and perform quality wind band literature under the direction of multiple conductors. The course can be taken multiple years for one credit each time.

MUN 1439 Tuba-Euphonium Ensemble (1) FA MUS
Course is a vital/required performance outlet for all USF tuba/euphonium majors. Repertoire & class size provide for personalized instruction/dynamic musical growth. Non-majors may enroll. Course is repeatable for credit- total 8 credits.

MUN 3133 Symphonic Band (1) FA MUS
The Symphonic Band fosters the highest performance standards of wind and percussion literature. Although made up primarily of music majors, the course is open to all university students by comprehensive auditions. It is repeatable for up to 8 credits.

MUN 3143 Wind Ensemble (1) FA MUS
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 3213 University Orchestra (1) FA MUS
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 3233 Bel Canto Women’s Choir (1) FA MUS
Open to all university students with the necessary proficiency in their performing media; study and performance of treble-voice music and treble-voice music in combination with, string, woodwind, brass, or percussion instruments.

MUN 3333 Singing Stampede (1) FA MUS
Open to all university students with the necessary proficiency in their performing media; study and performance of male-chorus music and male-chorus music in combination with, string, woodwind, brass, or percussion instruments.

MUN 3343 Chamber Singers (1) FA MUS
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) FA MUS
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) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3420 Saxophone Ensemble (1) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3421 Flute Choir (1) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3427 Flute Choir (1) FA MUS
Flute Choir will rehearse and perform new and standard repertoire for flute ensemble. Students will learn to perform on all members of the flute family including piccolo, C flute, alto and bass flute.

MUN 3431 Brass Quintet (1) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3433 Brass Choir (1) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3443 Percussion Ensemble (1) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3444 Marimba Ensemble (1) FA MUS
Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3453 Piano Ensemble (1) FA MUS
### COURSE DESCRIPTIONS

#### MUS 4935 Music Seminar (1)
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.

#### MUS 3474 Collegium Musicum (1) FA MUS
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.

#### MUS 3713 Jazz Ensemble (1) FA MUS
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, and piano.

#### MUS 3714 Jazz Chamber Ensemble (1) FA MUS
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, and piano.

#### MUN 3503 Opera Workshop (1) FA MUS
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, and piano.

#### MUS 2201 Language Diction For Singers (1) FA MUS
Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering.

#### MUS 4801 Mind-Body Integration for Musicians (2) FA MUS
This course teaches music majors about sound approaches to practice, perform, and maintain good posture, breathing, strong and flexible body, and develop quick mind and deep musicality. The course incorporates reading, discussion, and hands-on practice.

#### MUS 4905 Directed Study (1-4) FA MUS
Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

#### MUS 4930 Selected Topics In Music (1-3) FA MUS
The content of the course will be governed by student demand and instructor interest.

#### MUS 4931 Selected Studio Topics In Music (1-3) FA MUS
The content of the course will be governed by student demand and instructor interest.

#### MUS 4935 Music Senior Seminar (1) FA MUS
To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues.

#### MUS 5905 Directed Study (1-4) FA MUS
Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

#### MUT 1001 Rudiments Of Music (2) FA MUS
Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

#### MUT 1111 Music Theory I (3) FA MUS
Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

#### MUT 1112 Music Theory II (3) FA MUS
PR: MUT 1111
Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

#### MUT 1241 Aural Theory I (1) FA MUS
CR: MUT 1111, MUT 1112.
Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

#### MUT 1242 Aural Theory II (1) FA MUS
PR: MUT 1241
Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

#### MUT 2116 Music Theory III (3) FA MUS
PR: MUT 1112
Required of music majors, continuation of MUT 1111 and 1112.

#### MUT 2117 Music Theory IV (3) FA MUS
PR: MUT 2116
Required of music majors, continuation of MUT 1111, 1112, and 2116.

#### MUT 2246 Aural Theory III (1) FA MUS
PR: MUT 2142
CR: MUT 2116, MUT 2117
Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

#### MUT 2247 Aural Theory IV (1) FA MUS
PR: MUT 2246
CR: MUT 2116, MUT 2117
Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

#### MUT 2641 Jazz Theory And Improvisation I (2) FA MUS
PR: MUT 1112
A study of jazz improvisational techniques and related jazz theory.

**MUT 2642 Jazz Theory And Improvisation II (2) FA MUS**  
PR: MUT 2641  
A study of jazz improvisational techniques and related jazz theory.

**MUT 3353 Jazz Composition and Arranging I (3) FA MUS**  
PR: MUT 1112  
Course designed to develop arranging and/compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

**MUT 3354 Jazz Composition And Arranging II (3) FA MUS**  
PR: MUT 3353  
Course designed to develop arranging and/compositional skills in the jazz idiom through the study of jazz orchestration, harmonic and melodic practices.

**MUT 3663 Advanced Jazz Improvisation I (2) FA MUS**  
PR: MUT 2642  
A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

**MUT 3664 Advanced Jazz Improvisation II (2) FA MUS**  
PR: MUT 3663  
A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

**MUT 4310 Orchestration I (2) FA MUS**  
Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

**MUT 4311 Orchestration II (2) FA MUS**  
PR: MUT 4310  
Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

**MUT 4421 Eighteenth Century Practice (3) FA MUS**  
PR: MUT 2117  
An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

**MUT 4571 Twentieth Century Practice (3) FA MUS**  
PR: MUT 2117  
A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

**MUT 4611 Form and Analysis (3) FA MUS**  
PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242, MUT 2116, MUT 2117, MUT 2246, MUT 2247  
This course teaches students to think critically, speak, and write fluently about music, music analysis, and how these processes relate to the work done in rehearsals or studios via various inquiry-based learning strategies.

**MVB 1211 Applied Trumpet (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1212 Applied French Horn (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1213 Applied Trombone (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1214 Applied Euphonium (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1215 Applied Tuba (1) FA MUS**  
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVB 1311 Trumpet Principal (2) FA MUS**  
Private and class instruction.

**MVB 1312 French Horn Principal (2) FA MUS**  
Private and class instruction.

**MVB 1313 Trombone Principal (2) FA MUS**  
Private and class instruction.

**MVB 1314 Euphonium Principal (2) FA MUS**  
Private and class instruction.

**MVB 1315 Tuba Principal (2) FA MUS**  
Private and class instruction.

**MVB 1411 Trumpet Major (3) FA MUS**  
Private and class instruction.

**MVB 1412 French Horn Major (3) FA MUS**  
Private and class instruction.
### Course Descriptions

**Private and class instruction.**

- **MVB 1413 Trombone Major (3) FA MUS**
- **MVB 1414 Euphonium Major (3) FA MUS**
- **MVB 1415 Tuba Major (3) FA MUS**
- **MVB 2321 Trumpet Principal (2) FA MUS**
- **MVB 2322 French Horn Principal (2) FA MUS**
- **MVB 2323 Trombone Principal (2) FA MUS**
- **MVB 2324 Euphonium Principal (2) FA MUS**
- **MVB 2325 Tuba Principal (2) FA MUS**
- **MVB 2421 Trumpet Major (3) FA MUS**
- **MVB 2422 French Horn Major (3) FA MUS**
- **MVB 2423 Trombone Major (3) FA MUS**
- **MVB 2424 Euphonium Major (3) FA MUS**
- **MVB 2425 Tuba Major (3) FA MUS**
- **MVB 3331 Trumpet Principal (2) FA MUS**
- **MVB 3332 French Horn Principal (2) FA MUS**
- **MVB 3333 Trombone Principal (2) FA MUS**
- **MVB 3334 Euphonium Principal (2) FA MUS**
- **MVB 3335 Tuba Principal (2) FA MUS**
- **MVB 3431 Trumpet Major (3) FA MUS**
- **MVB 3432 French Horn Major (3) FA MUS**
- **MVB 3433 Trombone Major (3) FA MUS**
- **MVB 3434 Euphonium Major (3) FA MUS**
- **MVB 3435 Tuba Major (3) FA MUS**
- **MVB 4443 Trombone Major (3) FA MUS**
- **MVB 4444 Euphonium Major (3) FA MUS**
- **MVB 4445 Tuba Major (3) FA MUS**
- **MVB 5251 Applied Trumpet (2-4) FA MUS**
- **MVB 5252 Applied French Horn (2-4) FA MUS**
- **MVB 5253 Applied Trombone (2-4) FA MUS**
- **MVB 5254 Applied Euphonium (2-4) FA MUS**
- **MVB 5255 Applied Tuba (2-4) FA MUS**
- **MVJ 1210 Applied Jazz Piano (1) FA MUS**
- **MVJ 1213 Applied Jazz Guitar (1) FA MUS**
- **MVJ 1214 Applied Jazz Bass (1) FA MUS**
- **MVJ 1219 Jazz Percussion (1) FA MUS**
- **MVJ 1310 Applied Jazz Piano Principal (2) FA MUS**
- **MVJ 1313 Jazz Guitar Principal (2) FA MUS**
- **MVJ 1314 Jazz Bass Principal (2) FA MUS**
- **MVJ 1319 Applied Jazz Percussion Principal (2) FA MUS**
- **MVJ 1410 Applied Jazz Piano Major (3) FA MUS**
- **MVJ 1413 Jazz Guitar Major (3) FA MUS**
- **MVJ 1414 Jazz Bass Major (3) FA MUS**
- **MVJ 1419 Jazz Percussion Major (3) FA MUS**
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Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeatable. (9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.

MVJ 2110 Jazz Keyboard Skills (2) FA MUS
PR: MUT 2641.
For jazz studies majors (non pianists). Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2) FA MUS
Private and class instruction.

MVJ 2323 Jazz Guitar Principal (2) FA MUS
Private and class instruction.

MVJ 2324 Jazz Bass Principal (2) FA MUS
Private and class instruction.

MVJ 2329 Applied Jazz Percussion Principal (2) FA MUS
Private and class instruction.

MVJ 2420 Applied Jazz Piano Major (3) FA MUS
Private and class instruction.

MVJ 2423 Jazz Guitar Major (3) FA MUS
Private and class instruction.

MVJ 2424 Jazz Bass Major (3) FA MUS
Private and class instruction.

MVJ 2425 Jazz Percussion Major (3) FA MUS
Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeatable. (9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.

MVJ 3330 Applied Jazz Piano Principal (2) FA MUS
Private and class instruction.

MVJ 3333 Jazz Guitar Principal (2) FA MUS
Private and class instruction.

MVJ 3334 Jazz Bass Principal (2) FA MUS
Private and class instruction.

MVJ 3339 Applied Jazz Percussion Principal (2) FA MUS
Private and class instruction.

MVJ 3430 Applied Jazz Piano Major (3) FA MUS
Private and class instruction.

MVJ 3433 Jazz Guitar Major (3) FA MUS
Private and class instruction.

MVJ 3434 Jazz Bass Major (3) FA MUS
Private and class instruction.

MVJ 3439 Applied Jazz Percussion (3) FA MUS
Private and class instruction.

MVJ 4440 Jazz Piano Major (3) FA MUS
Private and class instruction.

MVJ 4443 Jazz Guitar Major (3) FA MUS
Private and class instruction.

MVJ 4444 Jazz Bass Major (3) FA MUS
Private and class instruction.

MVJ 4449 Jazz Percussion Major (3) FA MUS
Private and class instruction.

MVJ 4950 Applied Jazz Performance (3) FA MUS
PR: MUT 2642
Necessary competency at junior level determined by faculty jury examination. Private and class instruction.

MVJ 5250 Applied Jazz Piano Secondary (2) FA MUS
Private and class instruction.

MVJ 5252 Applied Jazz Bass Secondary (2) FA MUS
Private and class instruction.

MVJ 5253 Applied Jazz Guitar Secondary (2) FA MUS
Private and class instruction.

MVJ 5254 Applied Jazz Bass Secondary (2) FA MUS
Private and class instruction.

MVJ 5259 Applied Jazz Percussion Secondary (2) FA MUS
Private and class instruction.

MVK 1111 Keyboard Skills I (2) FA MUS
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) FA MUS
PR: MVK 1111
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) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVK 1311 Piano Principal (2) FA MUS
Private and class instruction.

MVK 1411 Piano Major (3) FA MUS
Private and class instruction.

MVK 1811 Beginning Piano I (2) FA MUS
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) FA MUS**
PR: MVK 1121
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 2121 Keyboard Skills IV (2) FA MUS**
PR: MVK 2111
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) FA MUS**
Private and class instruction.

**MVK 2421 Piano Major (3) FA MUS**
Private and class instruction.

**MVK 3111 Music Majors, Level V (2) FA MUS**
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 3331 Piano Principal (2) FA MUS**
Private and class instruction.

**MVK 3431 Piano Major (3) FA MUS**
Private and class instruction.

**MVK 4341 Piano Principal (2) FA MUS**
Private and class instruction.

**MVK 4441 Piano Major (3) FA MUS**
Private and class instruction.

**MVP 1211 Applied Percussion (1) FA MUS**
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVP 1311 Percussion Principal (2) FA MUS**
Private and class instruction.

**MVP 2321 Percussion Principal (2) FA MUS**
Private and class instruction.

**MVP 2421 Percussion Major (3) FA MUS**
Private and class instruction.

**MVP 3331 Percussion Principal (2) FA MUS**
Private and class instruction.

**MVP 3431 Percussion Major (3) FA MUS**
Private and class instruction.

**MVP 4341 Percussion Principal (2) FA MUS**
Private and class instruction.

**MVP 4441 Percussion Major (3) FA MUS**
Private and class instruction.

**MVP 5251 Applied Percussion, Secondary (2-4) FA MUS**
Required of all applied music majors. Private and class instruction.

**MVS 1211 Applied Violin (1) FA MUS**
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVS 1212 Applied Viola (1) FA MUS**
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVS 1213 Applied Violoncello (1) FA MUS**
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVS 1214 Applied Double Bass (1) FA MUS**
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

**MVS 1311 Violin Principal (2) FA MUS**
Private and class instruction.

**MVS 1312 Viola Principal (2) FA MUS**
Private and class instruction.

**MVS 1313 Violoncello Principal (2) FA MUS**
Private and class instruction.

**MVS 1314 Double Bass Principal (2) FA MUS**
Private and class instruction.

**MVS 1411 Violin Major (3) FA MUS**
Private and class instruction.

**MVS 1412 Viola Major (3) FA MUS**
Private and class instruction.

**MVS 1413 Cello Major (3) FA MUS**
Private and class instruction.

**MVS 1414 Double Bass Major (3) FA MUS**
Private and class instruction.
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Private and class instruction.
MVS 2321 Violin Principal (2) FA MUS
Private and class instruction.
MVS 2322 Viola Principal (2) FA MUS
Private and class instruction.
MVS 2323 Violoncello Principal (2) FA MUS
Private and class instruction.
MVS 2324 Double Bass Principal (2) FA MUS
Private and class instruction.
MVS 2421 Violin Major (3) FA MUS
Private and class instruction.
MVS 2422 Viola Major (3) FA MUS
Private and class instruction.
MVS 2423 Cello Major (3) FA MUS
Private and class instruction.
MVS 2424 Double Bass Major (3) FA MUS
Private and class instruction.
MVS 3331 Violin Principal (2) FA MUS
Private and class instruction.
MVS 3332 Viola Principal (2) FA MUS
Private and class instruction.
MVS 3333 Violoncello Principal (2) FA MUS
Private and class instruction.
MVS 3334 Double Bass Principal (2) FA MUS
Private and class instruction.
MVS 3431 Violin Major (3) FA MUS
Private and class instruction.
MVS 3432 Viola Major (3) FA MUS
Private and class instruction.
MVS 3433 Cello Major (3) FA MUS
Private and class instruction.
MVS 3434 Double Bass Major (3) FA MUS
Private and class instruction.
MVS 4341 Violin Principal (2) FA MUS
Private and class instruction.
MVS 4342 Viola Principal (2) FA MUS
Private and class instruction.
MVS 4343 Violoncello Principal (2) FA MUS
Private and class instruction.
MVS 4344 Double Bass Principal (2) FA MUS
Private and class instruction.
MVS 4441 Violin Major (3) FA MUS
Private and class instruction.
MVS 4442 Viola Major (3) FA MUS
Private and class instruction.
MVS 4443 Cello Major (3) FA MUS
Private and class instruction.
MVS 4444 Double Bass Major (3) FA MUS
Private and class instruction.
MVS 5251 Applied Violin (2-4) FA MUS
Private and class instruction.
MVS 5252 Applied Viola (2-4) FA MUS
Private and class instruction.
MVS 5253 Applied Cello (2-4) FA MUS
Private and class instruction.
MVS 5254 Applied Double Bass (2-4) FA MUS
Private and class instruction.
MVV 1211 Applied Voice (1) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
MVV 1311 Voice Principal (2) FA MUS
Private and class instruction.
MVV 1411 Voice Major (3) FA MUS
Private and class instruction.
MVV 2321 Voice Principal (2) FA MUS
Private and class instruction.
MVV 2421 Voice Major (3) FA MUS
Private and class instruction.
MVV 3331 Voice Principal (2) FA MUS
Private and class instruction.
MVV 3431 Voice Major (3) FA MUS
Private and class instruction.
MVV 3630 Vocal Pedagogy - Undergraduate (2) FA MUS
PR: Four terms of studio voice. Open to USF undergraduate vocal performance majors that have completed four terms of vocal study (passing grade). Other students may petition to enroll with the approval of the instructor. Covers the fundamental principles of the teaching of singing.
MVV 4341 Voice Principal (2) FA MUS
Private and class instruction.
MVV 4441 Voice Major (3) FA MUS
Private and class instruction.
MVV 5251 Applied Voice (2-4) FA MUS
Private and class instruction.
MVW 1211 Applied Flute (1) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
MVW 1212 Applied Oboe (1) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
MVW 1213 Applied Clarinet (1) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
MVW 1214 Applied Bassoon (1) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
MVW 1215 Applied Saxophone (1) FA MUS
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
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) FA MUS
Private and class instruction.
MVW 1312 Oboe Principal (2) FA MUS
Private and class instruction.
MVW 1313 Clarinet Principal (2) FA MUS
Private and class instruction.
MVW 1314 Bassoon Principal (2) FA MUS
Private and class instruction.
MVW 1315 Saxophone Principal (2) FA MUS
Private and class instruction.
MVW 1411 Flute Major (3) FA MUS
Private and class instruction.
MVW 1412 Oboe Major (3) FA MUS
Private and class instruction.
MVW 1413 Clarinet Major (3) FA MUS
Private and class instruction.
MVW 1414 Bassoon Major (3) FA MUS
Private and class instruction.
MVW 1415 Saxophone Major (3) FA MUS
Private and class instruction.
MVW 2321 Flute Principal (2) FA MUS
Private and class instruction.
MVW 2322 Oboe Principal (2) FA MUS
Private and class instruction.
MVW 2323 Clarinet Principal (2) FA MUS
Private and class instruction.
MVW 2324 Bassoon Principal (2) FA MUS
Private and class instruction.
MVW 2325 Saxophone Principal (2) FA MUS
Private and class instruction.
MVW 2421 Flute Major (3) FA MUS
Private and class instruction.
MVW 2422 Oboe Major (3) FA MUS
Private and class instruction.
MVW 2423 Clarinet Major (3) FA MUS
Private and class instruction.
MVW 2424 Bassoon Major (3) FA MUS
Private and class instruction.
MVW 2425 Saxophone Major (3) FA MUS
Private and class instruction.
MVW 3331 Flute Principal (2) FA MUS
Private and class instruction.
MVW 3332 Oboe Principal (2) FA MUS
Private and class instruction.
MVW 3333 Clarinet Principal (2) FA MUS
Private and class instruction.
MVW 3334 Bassoon Principal (2) FA MUS
Private and class instruction.
MVW 3335 Saxophone Principal (2) FA MUS
Private and class instruction.
MVW 3431 Flute Major (3) FA MUS
Private and class instruction.
MVW 3432 Oboe Major (3) FA MUS
Private and class instruction.
MVW 3433 Clarinet Major (3) FA MUS
Private and class instruction.
MVW 3434 Bassoon Major (3) FA MUS
Private and class instruction.

NGR 5871 Informatics in Nursing and Healthcare (3) NR NUR
Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health care documentation, electronic medical records, and web-based technologies for healthcare.

NSC 1101L Naval Science Laboratory (0) US NVY
A weekly two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

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 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
Types, structures & purpose of naval ships.

**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 2220 Evolution of Warfare (3) US NVY**

A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.

**NSC 2231 Principles of Naval Management I (3) US NVY**

- Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills, behavior factors, and group dynamics.

**NSC 2931 Directed Study in Naval ROTC (1-3) US NVY**

- 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.

**NSP 4148 Simulation for Nursing Practice (3) NR NUR**

- This course is designed to explore the knowledge, skills, and competencies needed to develop, implement and evaluate the integration of simulation into nursing curriculum. It examines the educational theories and simulation framework.

**NSP 4485 An Interdisciplinary Perspective in HIV Disease 6AC (3) NR 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.

**NSP 4545 Substance Abuse Across the Lifespan 6AC (3) NR NUR**

- Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts of substance use/abuse to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.

**NSP 4855 Skills for Nursing Staff Development Educator (3) NR NUR**

- This course provides the learner with theoretical foundations and skill to function in a nursing professional development position. Principles of
adult education, communication skills and educational technological advances will be explored.

**NSP 4881 Healthcare Human Resources Systems and Strategies (3) NR NUR**

This course will provide students with an understanding of systems and strategies necessary to effectively manage human resources in healthcare settings. Quality clinical care is dependent on effectively recruiting, retaining and developing staff.

**NUR 3026 Fundamentals of Nursing Practice and Foundations for Clinical Judgment (4) NR NUR**

PR: NUR 3145

CR: NUR 3026L and NUR 3066.

Fundamentals of Nursing Practice and Foundations for Clinical Judgment. Focus is on developing critical thinking and communication skills when applying concepts of health to meet the basic needs of the individual across the life span from within the context of the family.

**NUR 3026L Nursing Fundamentals Clinical (4) NR NUR**

CR: NUR 3026 and NUR 3066.

Clinical experiences in the fundamentals of nursing practice and foundations for clinical judgment. Focus is on developing effective communication and critical thinking in applying nursing process, physical assessment, and concepts of health and illness.

**NUR 3066 Physical Examination and Assessment (2) NR NUR**

CR: NUR 3026, NUR 3026L.

Focus is on the use of techniques and instruments necessary for the examination of infants, children and adults. Emphasizes assessment phase of critical thinking to enable student to perform evaluations of health status throughout the lifespan.

**NUR 3066L Clinical Experience in Health Assessment - RN (1) NR NUR**

CR: NUR 3066.

Clinical experience on history taking, physical assessment skills basic to biopsychosocial assessment and physical examination of adults and children. Emphasizes diagnostic reasoning and identification of alteration in functional health patterns.

**NUR 3078 Information Technology Skills for Nurses (1) NR NUR**

CR: NUR 3805.

Introduction to information technology in order to enhance efforts and improve communication in the classroom and workplace environment. Focuses on developing technical skills and knowledge.

**NUR 3081 Bridge to Professional Nursing (3) NR NUR**

This course assists the transition of military medic/corpsmen to professional registered nursing practice. Addresses clinical reasoning & communication skills when applying concepts of health to nursing needs of individuals & families across the lifespan.

**NUR 3081L Bridge to Professional Nursing Practice (2) NR NUR**

Facilitates transition from military medic/corpsman to clinical nursing practice using nursing process. Provides opportunities to apply clinical reasoning and therapeutic communication skills in meeting nursing needs of individuals and families.

**NUR 3125 Pathophysiology for Nursing Practice (4) NR NUR**

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) NR NUR**

CR: NUR 3125.

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) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145

CR: NUR 3215 or NGR 5580L.

Focuses on nursing assessment, prevention, and management of selected health care problems in adults of all ages. Critical thinking is used to analyze the effects of changes in health status and impact of nursing intervention for: patients with alteration in Fluid and Electrolyte Balance, Hematologic System, Integumentary and Immunologic System, Cardiovascular System, Pulmonary System, Musculoskeletal, Sensory System (Visual/Auditory). Patient teaching is incorporated for each topic.

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

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145

Focus is on the use of techniques and instruments necessary for the examination of infants, children and adults. Emphasizes assessment phase of critical thinking to enable student to perform evaluations of health status throughout the lifespan.

**NUR 3535 Psychiatric/Mental Health Nursing (3) NR NUR**

PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145

CR: NUR 3535L.

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 3535L Psychiatric/Mental Health Nursing Clinical (3) NR NUR
PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145
CR: NUR 3535.
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 3678 Nursing Healthcare for Vulnerable Populations (3) NR NUR
The course focuses on the cultural aspects of providing health-related care through experiential analysis of a selected program designed to serve a vulnerable population either here or abroad.

NUR 3805 Education Transitions for Registered Nurses (2) NR NUR
Transitions the Registered Nurse to the professional nursing role using self-reflection to document learning achieved through past personal and professional experiences to plan for career advancement.

NUR 3826 Ethical Legal Aspects in Nursing and Health Care (2) NR NUR
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 3843 Problem Solving and Critical Thinking in Professional Nursing I (1) NR NUR
The course is introduces the theoretical component of problem solving & critical thinking in professional nursing. The focus is developing critical thinking skills specific to problem solving in professional nursing.

NUR 3844 Problem Solving and Critical Thinking in Professional Nursing II (1) NR NUR
PR: NUR 3843.
This course provides the opportunity for students to demonstrate achievement in problem solving and critical thinking in the nursing curriculum. The focus is applying critical thinking skills specific to problem solving in professional nursing.

NUR 3875 Telehealth in Healthcare (1) NR NUR
This online course prepares health care professionals on the use of telehealth in healthcare.

NUR 4069 Health Assessment for Registered Nurses (3) NR NUR
PR: NUR 4634C, NUR 3805.
This course builds on the RN’s previous knowledge and clinical expertise in developing health and physical assessment skills. The emphasis is on the analysis and synthesis of health assessment data as a basis for patient teaching.

NUR 4128 Pathophysiology/Pharmacology (3) NR NUR
PR: NUR 4634C.
Updates pathophysiological and pharmacological concepts critical to clinical decision making in nursing. Focuses on commonly occurring disease processes.

NUR 4165 Nursing Inquiry WRIN 6AC (3) NR NUR
An analysis of the research process. Emphasis on identification of researchable nursing problems and evaluations of research that is applicable to nursing practice. Focus on evidence-based practice for nursing.

NUR 4169C Evidence-Based Practice for Bacc Prepared Nurse WRIN 6AC (3) NR NUR
PR: NUR 3078, NUR 3805, NUR 4895C.
This course provides the foundations of clinical inquiry, research methodology and critical appraisal in the synthesis of research findings for application in evidence-based nursing practice.

NUR 4216 Medical Surgical Nursing II (4) NR NUR
PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145, NUR 3215, NUR 3215L
CR: NUR 4216L or NGR 5580L.

NUR 4216L Medical Surgical Nursing Clinical II (5) NR NUR
PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145, NUR 3215, NUR 3215L

NUR 4286 Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults WRIN 6AC (3) NR NUR
PR: NUR 3026, NUR 3066, NUR 3125, NUR 3145, NUR 3215.
CPR: NUR 4636, NUR 4636L.
Focuses on the development of core competencies necessary to provide holistic, evidence-based and culturally sensitive nursing care to older adults.

NUR 4355 Child and Adolescent Health Nursing (3) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L or NGR 5580L.
CR: NUR 4455, NUR 4635L or NGR 5680L CPR: NUR 4636
This course will explore the nursing care of children and adolescents within the context of the family. Focus on health promotion, risk factor identification, disease prevention, and health restoration in children and adolescents.
NUR 4455 Women’s Health Nursing (2) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525/NUR 3535L or NGR 5580L.
CR: NUR 4355; CP: NUR 4635L or NGR 5680L, NUR 4636.
Focuses on the physiologic and psychosocial needs of women, newborns and families related to fertility and infertility, pregnancy and birth.

NUR 4467L Maternal and Pediatric Nursing Care Clinical (4) NR NUR
PR: NUR 4216, NUR 4216L
CR: NUR 4355, NUR 4455.
Provides clinical experiences in diverse settings.
Focuses on nursing care designed to prevent and reduce risk of disease and injury, promote health, and treat illness and injury in childbearing women, infants, children, adolescents and families.

NUR 4634C Population Health CPST (3) NR NUR
PR: NUR 3078, NUR 4828C, NUR 3805, NUR 4169 NUR 4895C.
A synthesis of theory and epidemiology enabling students to promote health and wellness in populations. Current practices, policies, and laws will be explored in relation to environment, infectious disease, vulnerable populations and chronic illness.

NUR 4635L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women’s Health (3-7) NR NUR
PR: NUR 4216, NUR 4216L
CR: NUR 4455, NUR 4636, NUR 4355.
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 age spectrum.

NUR 4636 Community/Public Health: Population-Focused Nursing CPST (3) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L or NGR 5580L.
In-depth examination of community health nursing, public health, epidemiology, culture, and environment essential to preventing illness and injury and promoting and preserving health among diverse populations at risk.

NUR 4636L Community/Public Health Nursing Clinical (3) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L
CR: NUR 4636;
CPR: NUR 4636 or NUR 4286.
The course provides clinical learning experiences in community-based sites in both urban and rural settings. Focuses on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness, and to diverse populations across the age spectrum.

NUR 4795 Cancer Symptom Management (3) NR NUR
Students taking this course will learn about nursing management of common side effects of cancer and cancer treatments.

NUR 4807C Leadership & Education Transitions for RNs (3) NR NUR
Professional practice and principles of leadership and management for licensed RNs. Focuses on decision making and managing nursing care using multiple learning strategies for academic success. Clinical experiences build upon a practice background.

NUR 4827C Leadership and Management in Professional Nursing Practice (3) NR NUR
PR: NUR 4216, NUR 4216L, NUR 4636, NUR 4636L
Principles of nursing leadership and management with an emphasis on decision-making, priority-setting, delegating, and managing nursing care. Focus on the preparation of the professional nurse to work collaboratively in the interdisciplinary healthcare environment. There will be in depth examination of process improvement with a focus on the quality indicator process. Clinical experiences for registered nurse students will be designed to build upon a practice background.

NUR 4828C Foundations of Nursing Healthcare Leadership & Mgmt (3) NR NUR
PR: NUR 3078, NUR 3805, NUR 4895C.
Provides an overview of leadership and management theories and competencies required in todays inter-disciplinary healthcare environment.

NUR 4850 Fundamentals of Healthcare Finance for RNs (3) NR NUR
PR: NUR 3078, NUR 3805, NUR 4895C.
This course provides the learner with fundamental knowledge and tools to promote fiscal accountability and effectiveness when providing services as a direct care giver or nurse leader/manager.

NUR 4895 Educational Role of the Nurse in Healthcare (3) NR NUR
CR: NUR 3805, NUR 3078.
Provides the learner with an opportunity to gain knowledge and skills to facilitate the teaching role of the nurse in educating patients and their families as well as nursing and health care staff.

NUR 4905C Independent Study (1-5) NR NUR
Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor.

NUR 4935 Selected Topics In Nursing (1-3) NR NUR
Content will depend upon student demand and faculty interest and may focus on any area.
relevant to nursing practice. May involve class, seminar, and/or clinical laboratory.

**NUR 4948L Preceptorship (6) NR NUR**
PR: NUR 4216, NUR 4216L
CPR: NUR 4636, NUR 4636L and NUR 4635L, NUR 4455, NUR 4355, NUR 4838.
Individually contracted 150 hours of clinical practicum collaboratively planned by students, faculty, and agency personnel. Opportunity to synthesize theory and clinical practice for professional nursing.

**OCE 2001 Introduction to Oceanography CANP (3)**
MS MSC
This is a class in basic oceanography covering chemical (what is the sea made of), physical (tides, currents, waves), geological (ocean floor and coasts) and biological (all life in the oceans) aspects, and their interactions.

**OCE 4930 Selected Topics in Marine Science (1-3)**
MS MSC
Selected topics in marine science including marine biology, marine chemistry, marine geology and geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.

**ORI 3004 Communication as Performance (3) AS SPE**
Designed to develop an understanding of performance as a communicative process and as a method through which to study communication. This course emphasizes the ways performance communicates social, cultural, and political perspectives and identities.

**ORI 3950 Communication As Performance Laboratory (1-3) AS SPE**
PR: SPC 2608 AND COM 2000 AND ORI 3004, each with a grade of C or above
The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.

**ORI 4019 Performing Identity and Culture (3) AS SPE**
PR: ORI 3004.
Focuses on theory and practice of identity and culture as performed in ritual, community, and aesthetic contexts. Majors only; nonmajors by permit only. May not be repeated for credit.

**ORI 4120 Performance of Poetry (3) AS SPE**
PR: SPC 2608 AND COM 2000 AND ORI 3004, each with a grade of C or above
Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

**ORI 4150 Performing Nonfiction (3) AS SPE**
PR: ORI 3004.
Explores the genre of nonfiction, including diaries, memoirs, travelogues, new journalism, personal essays, and weblogs, through performance. For majors; nonmajors by permit. May not be repeated for credit.

**ORI 4220 Performing Young Adult Literature (3) AS SPE**
PR: ORI 3004.
Performance of literature written for young adults with an emphasis on cultural values and beliefs. For majors; nonmajors by permit only. May not be repeated for credit.

**ORI 4310 Group Performance of Literature (3) AS SPE**
PR: SPC 2608 AND COM 2000 AND ORI 3004, each with a grade of C or above
Designed to introduce the student to and give experience in various forms of group approaches to performance.

**ORI 4320 Writing for Performance (3) AS SPE**
PR: ORI 3004.
Explores the intersection of writing and performance as aesthetic and communicative practices. For majors; nonmajors by permit only. May not be repeated for credit.

**ORI 4410 Performance Art (3) AS SPE**
PR: ORI 3004.
Explores history, criticism, and practice of performance art as a genre of performance. Restricted to majors; nonmajors with permit. Not repeatable for credit.

**ORI 4460 Performing Relationships (3) AS SPE**
PR: ORI 3004.
Explores interpersonal, organizational, and intercultural theories of human relationships as realized in literary texts through performance. For majors; nonmajors permit only. May not be repeated for credit.

**ORI 4931 Performance and Video (3) AS SPE**
PR: ORI 3004
This course features adaptation, direction, and performance of literature for video productions.

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

**OSE 4601 Optical Product Technology (3) EN EGR**
PR: EML 3500, EGN 3343, both with a minimum grade of C or better
Overview of the operating principles, design, and construction of a broad range of optically-based products, such as: lamps, cameras, displays/monitors, night vision, cloaking, bar codes, rangefinders, locks, etc. Aimed at mechanical engineering seniors.

**PAD 3003 Introduction to Public Administration (3) AS SPF**
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 6AC (3) AS SPF**
Role and importance of third sector (voluntary) organizations in American society; focus on public policy through service in a voluntary organization.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4204</td>
<td>Public Financial Administration (3) AS SPF</td>
<td>3</td>
<td>Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.</td>
</tr>
<tr>
<td>PAD 4415</td>
<td>Personnel &amp; Supervision in Today's Diverse Organizations (3) AS SPF</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PAD 4712</td>
<td>Managing Information Resources in the Public Sector (3) AS SPF</td>
<td>3</td>
<td>Introduces students to the fundamental concepts, theories, principles and practices in public information management. Internet access is required.</td>
</tr>
<tr>
<td>PAD 4930</td>
<td>Selected Topics in Public Administration and Public Policy (3) AS SPF</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PAD 5035</td>
<td>Issues in Public Administration and Public Policy (3) AS SPF</td>
<td>3</td>
<td>Selected issues and topics in Public Administration and Public Policy.</td>
</tr>
<tr>
<td>PAD 5044</td>
<td>Environment of Public Administration (3) AS SPF</td>
<td>3</td>
<td>Examination of the legal, political, and ethical environment in which public managers work.</td>
</tr>
<tr>
<td>PAD 5065</td>
<td>Administrative Law and Regulation (3) AS SPF</td>
<td>3</td>
<td>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. 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.</td>
</tr>
<tr>
<td>PAD 5700</td>
<td>Research Methods in Public Administration (3) AS SPF</td>
<td>3</td>
<td>Research design; skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs.</td>
</tr>
<tr>
<td>PAD 5807</td>
<td>Urban and Local Government Administration (3) AS SPF</td>
<td>3</td>
<td>Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.</td>
</tr>
<tr>
<td>PAD 5836</td>
<td>Comparative Public Administration (3) AS SPF</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PCB 3023</td>
<td>Cell Biology (3) AS BCM</td>
<td>3</td>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L &amp; CHM 2045, CHM 2046 &amp; MAC 1105 or higher-level MAC course or STA 2023. CPR: CHM 2210. Cell Biology is the study of living properties of cells and encompasses a broad area of the life sciences that includes cellular physiology and life cycle, organelle structure and function, and biomolecular structure and function.</td>
</tr>
<tr>
<td>PCB 3023L</td>
<td>Cell Biology Laboratory (1) AS BCM</td>
<td>1</td>
<td>CPR: PCB 3023. Laboratory portion of Cell Biology. Metabolic processes within the cell.</td>
</tr>
<tr>
<td>PCB 3043</td>
<td>Principles of Ecology (3) AS BIN</td>
<td>3</td>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L &amp; CHM 2045, CHM 2046 &amp; MAC 1105 or higher-level MAC course or STA 2023. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lecture only.</td>
</tr>
<tr>
<td>PCB 3043L</td>
<td>Principles of Ecology Laboratory (1) AS BIN</td>
<td>1</td>
<td>CPR: PCB 3043. Laboratory portion of PCB 3043, Principles of Ecology.</td>
</tr>
<tr>
<td>PCB 3063</td>
<td>General Genetics (3) AS BCM</td>
<td>3</td>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L &amp; CHM 2045, CHM 2046 &amp; MAC 1105 or higher-level MAC course or STA 2023. CPR: CHM 2210. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lecture only.</td>
</tr>
<tr>
<td>PCB 3063L</td>
<td>General Genetics Laboratory (1) AS BIN</td>
<td>1</td>
<td>CPR: PCB 3063. Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions.</td>
</tr>
<tr>
<td>PCB 3712</td>
<td>General Physiology (3) AS BIN</td>
<td>3</td>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023. Comparative analysis of animal structure and function: organ systems and activities of body tissue and organs. Functional responses of plants to both internal and environmental signals lecture only.</td>
</tr>
<tr>
<td>PCB 3713</td>
<td>General Physiology Laboratory (1) AS BIN</td>
<td>1</td>
<td>PR: PCB 3712. Laboratory portion of General Physiology.</td>
</tr>
<tr>
<td>PCB 4024</td>
<td>Molecular Biology of the Cell (3) AS BCM</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
PR: PCB3023, PCB3063.
This lecture-based course will focus on advanced principles of molecular cell biology with emphasis on protein structure and function in key cellular pathways. The course is suitable for majors/non-majors.

PCB 4026 Molecular Biology of the Gene (3) AS BCM
PR: PCB3023, PCB3063.
This lecture-based course will provide fundamental knowledge of scientific concepts and principles of the molecular aspects of DNA metabolism in pro- and eukaryotes for majors/non-majors.

PCB 4109 Cancer Biology (3) AS BCM
PR: MCB 3410, PCB 3023, PCB 3063
This course will provide a background in basic cancer biology, including genetics, cellular physiology and metabolism associated with cancer development. Aspects of drug therapy and discovery will be considered.

PCB 4234 Principles of Immunology (3) AS BCM
PR: PCB 3023, PCB 3063 and PCB 3023L or PCB 3063L
Emphasis is on organization and functions of vertebrate immune system. Basic cellular and molecular mechanisms of immune responses in health and disease are addressed as well as the principles and applications of immunological methods. Lecture only.

PCB 4522C Experimental Genetics and Cell Biology (3) AS BCM
PR: PCB 3023, PCB 3063 and PCB 3023L or PCB 3063L
This course will teach students how to utilize and integrate concepts from genetics and cell biology in a research laboratory environment using current scientific literature, model organisms and molecular techniques.

PCB 4663 Human Genetics (3) AS BCM
PR: PCB3033, PCB3063.
A lecture-based course building upon principles introduced in Cell Biology and Genetics to explore advanced topics applied to human heredity and inherited disorders. Instruction includes problem solving, group activities, internet and individual projects.

PCB 4671 Molecular Evolution (3) AS BCM
PR: PCB 3063.
The study of evolution at the molecular level and how it is applied to cell and molecular biology.

PCB 4674 Organic Evolution (3) AS BIN
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 BIN
PR: PCB 3712, CHM 2210, PHY 2053 and MAC 1105 or higher-level MAC course or STA 2023.
CPR: CHM 2211.
Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lecture only.

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

PCB 4744 Biomedical Physiology (3) AS BCM
PR: PCB 3023
Detailed examination of mammalian physiology focusing on the cellular and molecular mechanisms that underlie and regulate physiological function.

PCB 4843 Principles of Neuroscience (3) AS BCM
PR: PCB 4723 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.
CPR: CHM 2211.
Study of the mammalian brain's structure and function, with an emphasis on human neuroanatomy, neuropharmacology, and neurophysiology. Topics include brain imaging, dementia, mechanisms of learning/memory, and neuropathological processes. Lecture only.

PCB 5256 Developmental Mechanisms (3) AS BCM
PR: ZOO 4695.
Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors.

PCB 5307 Limnology (3) AS BIN
PR: PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.
CPR: CHM 2211.
An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.

PCB 5307L Limnology Laboratory (1) AS BIN
CPR: PCB 5307.
Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.

PCB 5616 Molecular Phlogenetics (3) AS BCM
PR: PCB 3063.
Provides a theoretical (lecture) and practical (computer lab) framework to allow students to carry out phylogenetic analysis using molecular data. Majors or nonmajors.

PEL 1121 Golf I (2) ED EDJ
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation.

PEL 1341 Tennis I (2) ED EDJ
<table>
<thead>
<tr>
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<th>Department</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3312</td>
<td>Biomechanics</td>
<td>3</td>
<td>ED EDP</td>
<td>This course will focus on the physiological aspects of stress. A variety of topics will be addressed for self-regulating stress such as changing perceptions, time management, communication, biofeedback, exercise, and muscle relaxation.</td>
</tr>
<tr>
<td>PET 3211</td>
<td>Stress Management</td>
<td>2</td>
<td>ED EDP</td>
<td>Development and refinement of the skills and strategies of racquetball with opportunity for competition and tournament play.</td>
</tr>
<tr>
<td>PEM 2930</td>
<td>Selected Topics</td>
<td>1-2</td>
<td>ED EDJ</td>
<td>Development and refinement of the essential skills and information necessary for enjoying the sport of Skin &amp; Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety.</td>
</tr>
<tr>
<td>PEM 2131</td>
<td>Weight Training</td>
<td>2</td>
<td>ED EDP</td>
<td>Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety.</td>
</tr>
<tr>
<td>PEM 2441</td>
<td>Karate</td>
<td>2</td>
<td>ED EDP</td>
<td>Development and refinement of the skills and knowledge necessary for enjoying the sport of Karate. Fundamental skills, strategy, information, and participation.</td>
</tr>
<tr>
<td>PEN 1121</td>
<td>Swimming I (1-2)</td>
<td></td>
<td>ED EDP</td>
<td>Activities offered are selected to reflect student need and faculty interest.</td>
</tr>
<tr>
<td>PEN 2136</td>
<td>Skin &amp; Scuba Diving</td>
<td>2</td>
<td>ED EDP</td>
<td>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.</td>
</tr>
<tr>
<td>PET 3031</td>
<td>Motor Behavior</td>
<td>3</td>
<td>EDP</td>
<td>Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.</td>
</tr>
<tr>
<td>PET 3076</td>
<td>Fitness Across the Lifespan</td>
<td>3</td>
<td>EDP</td>
<td>Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.</td>
</tr>
<tr>
<td>PET 3211</td>
<td>Stress Management</td>
<td>2</td>
<td>EDP</td>
<td>Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.</td>
</tr>
<tr>
<td>PET 3310</td>
<td>Biomechanics</td>
<td>3</td>
<td>EDP</td>
<td>Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.</td>
</tr>
<tr>
<td>PEN 3713</td>
<td>Theory and Practice of Teaching Group Exercise</td>
<td>3</td>
<td>EDP</td>
<td>Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

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<tr>
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<tbody>
<tr>
<td>PET 3931</td>
<td>Selected Topics in Sports Medicine (1-3) Education/Diploma Program (ED EDP)</td>
<td>1-3</td>
<td>Topics offered are selected to reflect student need and faculty interest.</td>
</tr>
<tr>
<td>PET 3940</td>
<td>Practicum in Fitness/Wellness (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course will provide the initial field experience in a community fitness/wellness center serving general populations. Students will gain practical experience with regard to teaching group exercise and conducting fitness testing and prescription.</td>
</tr>
<tr>
<td>PET 4088</td>
<td>Individualized Fitness/Wellness Programming CPST (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>In this course students will learn how to assess, evaluate, and design safe and effective programs for individual clients. Students will also learn how to incorporate appropriate activities for specialized clients or populations.</td>
</tr>
<tr>
<td>PET 4093</td>
<td>Strength and Conditioning (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course will provide students with the information necessary for designing and implementing a successful strength and conditioning program through assessment and analysis of fitness and sport movement.</td>
</tr>
<tr>
<td>PET 4219</td>
<td>Exercise Psychology (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>A presentation of the basic concepts related to exercise behavior. The content will include topics related to the psychosocial dimensions of exercise behavior to include participation, motivation, and adherence. Theoretical models will also be presented.</td>
</tr>
<tr>
<td>PET 4300</td>
<td>Applied Exercise Science (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course will explore the application of physiological and kinesiological principles to teaching physical education. Specific changes and adaptations of children as a result of exercise will be examined. Restricted to majors. Not repeatable.</td>
</tr>
<tr>
<td>PET 4401</td>
<td>Class Management, Safety, Ethics, Law, and Organization and Administration of Physical Education (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course will examine the various classroom management approaches, professional ethics, school law, safety, and the organization and administration of physical education programs.</td>
</tr>
<tr>
<td>PET 4402</td>
<td>Planning and Evaluating Fitness/Wellness Programs (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course will focus on the design of high quality fitness/wellness programs in worksite and other settings. Students will learn and apply the major components of program planning – needs assessment, development, implementation, and evaluation.</td>
</tr>
<tr>
<td>PET 4413</td>
<td>Administration of Fitness/Wellness Centers (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course will examine management issues in the areas of human resources, budgeting, marketing, legal liability, and risk management. Students will develop skills to manage safe/effective programs and services in various fitness/wellness settings.</td>
</tr>
<tr>
<td>PET 4432</td>
<td>Instructional Design and Content: Physical Education Elementary (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PET 4433</td>
<td>Instructional Design &amp; Content: Physical Education Elementary II (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>This course prepares students to select, plan and conduct complex movement experiences for K-6 students.</td>
</tr>
<tr>
<td>PET 4440</td>
<td>Instructional Design and Content: Physical Education Secondary (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.</td>
</tr>
<tr>
<td>PET 4510</td>
<td>Measurement and Evaluation in Physical Education (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.</td>
</tr>
<tr>
<td>PET 4550</td>
<td>Clinical Exercise Testing and Prescription (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>A presentation of concepts related to the clinical aspects of fitness assessment and exercise programming. Clinical conditions that will be considered include: cardiovascular disease, pulmonary disease, metabolic disease, arthritis, and geriatrics.</td>
</tr>
<tr>
<td>PET 4742</td>
<td>Secondary Physical Education Methods: Physical Act (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>The course will prepare students to plan and conduct PE programs which meet National and State Content Standards related to physical activity, fitness, nutrition, and healthy living concepts. PE majors only. Not repeatable for credit.</td>
</tr>
<tr>
<td>PET 4765</td>
<td>Scientific Principles of Athletic Coaching (3) Education/Diploma Program (ED EDP)</td>
<td>3</td>
<td>The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.</td>
</tr>
<tr>
<td>PET 4820</td>
<td>Sport Skill Proficiency (2) Education/Diploma Program (ED EDP)</td>
<td>2</td>
<td>This course is designed to assist students in becoming proficient in and acquiring a foundation of the fundamental physical skills necessary to participate in and teach a variety of individual and team sports. Course restricted to PE majors.</td>
</tr>
<tr>
<td>PET 4905</td>
<td>Independent Study: Professional Physical Education (1-4) Education/Diploma Program (ED EDP)</td>
<td>1-4</td>
<td>Specialized independent study determined by the student's needs and interests.</td>
</tr>
</tbody>
</table>
### UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

**COURSE DESCRIPTIONS**

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>PET 4929</td>
<td>Senior Seminar in Physical Education</td>
<td>EDP</td>
<td>6</td>
<td>Requires a part time internship in elementary school physical education.</td>
</tr>
<tr>
<td>CPST 3</td>
<td>Internship in Physical Education (3) EDP</td>
<td>EDP</td>
<td>6</td>
<td>Provides a full range of teaching responsibilities in elementary physical education.</td>
</tr>
<tr>
<td>PET 4942</td>
<td>Physical Education Pre-Internship: Elementary</td>
<td>EDP</td>
<td>3</td>
<td>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 instruction competencies.</td>
</tr>
<tr>
<td>PET 4944</td>
<td>Physical Education Pre-Internship: Secondary</td>
<td>EDP</td>
<td>3</td>
<td>A part-time internship in middle or high school physical education with focus on the relationship of physical education to the needs of the adolescent and the implementation of appropriate content and methodology.</td>
</tr>
<tr>
<td>PET 4946</td>
<td>Internship in Physical Education: Elementary</td>
<td>EDP</td>
<td>6</td>
<td>A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education.</td>
</tr>
<tr>
<td>PET 4947</td>
<td>Internship in Physical Education: Secondary</td>
<td>EDP</td>
<td>6</td>
<td>A full-time 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.</td>
</tr>
<tr>
<td>PGY 2401C</td>
<td>Beginning Photography (3) FA ART</td>
<td>ART</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PGY 3410C</td>
<td>Intermediate Photography (3) FA ART</td>
<td>ART</td>
<td>3</td>
<td>A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction.</td>
</tr>
<tr>
<td>PGY 3610C</td>
<td>Photojournalism I (3) AS COM</td>
<td>COM</td>
<td>3</td>
<td>Fundamentals of news and feature photography. Camera operation, picture composition, darkroom techniques, editing in digital format with introduction to software applications. History, ethics and law of photojournalism.</td>
</tr>
<tr>
<td>PGY 3620</td>
<td>Photojournalism II (3) AS COM</td>
<td>COM</td>
<td>3</td>
<td>Advanced process and practice of photography for publication.</td>
</tr>
<tr>
<td>PET 4930C</td>
<td>Special Topics: Photography (3) FA ART</td>
<td>EDP</td>
<td>3</td>
<td>This course builds upon the concepts introduced in Intermediate Photography and focuses upon digital photographic creation and editing.</td>
</tr>
<tr>
<td>PGY 4420C</td>
<td>Advanced Photography (3) FA ART</td>
<td>ART</td>
<td>3</td>
<td>A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction by exposing the student to new ideas, technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography. Repeatable up to 9 hours.</td>
</tr>
<tr>
<td>PGY 4475C</td>
<td>Internship: Physical Education</td>
<td>EDP</td>
<td>6</td>
<td>Requires a part-time internship in a community fitness/wellness center serving both general and special populations. Practical experiences will focus on all aspects of program development, delivery, and management.</td>
</tr>
<tr>
<td>PGY 4822C</td>
<td>Digital Media II (3) FA ART</td>
<td>ART</td>
<td>3</td>
<td>This course builds upon the concepts introduced in Digital Media I and focuses upon digital photographic, web and digital video creation.</td>
</tr>
<tr>
<td>PHC 3302</td>
<td>Introduction to Environmental &amp; Occupational Health (3) PH EOH</td>
<td>EOH</td>
<td>3</td>
<td>Introduces the principles of environmental health from a public health perspective. This course is designed for students with an interest in the environment, assessment of risk, human health issues, and control strategies to reduce health risks.</td>
</tr>
<tr>
<td>PHC 3320</td>
<td>Environmental Health Science (3) PH EOH</td>
<td>EOH</td>
<td>3</td>
<td>Introduces students to environmental health science topics in the context of their impact on human and public health. It is open to all major programs. It may not be repeated for credit.</td>
</tr>
<tr>
<td>PHC 3721</td>
<td>Research Methods in Env and Occ Health (3) PH EOH</td>
<td>EOH</td>
<td>3</td>
<td>The purpose of this course is to provide a broad overview of the instruments and techniques used in contemporary environmental and occupational health science. It is open to all major programs. It may not be repeated for credit.</td>
</tr>
</tbody>
</table>
| PHC 4030   | Introduction to Epidemiology (3) PH EBP          | EBP        | 3     | Course provides an overview of epidemiological methods and the application to understanding health- and non-health issues. Students will develop critical thinking skills and apply the
PHC 4031 Emerging Infectious Diseases (3) PH PHC
This course addresses important infectious diseases and the principles of detection, diagnosis, prevention and control as well as the impact on public health. Students will presenting information on emerging infectious disease trends in group projects.

PHC 4032 Foundations of Infection Control (3) PH PHC
This course is based on infection control competencies from the board certification in infection control exam. With successful completion of this course, students will demonstrate mastery and application of these principles to real-world situations.

PHC 4069 Biostatistics in Society (3) PH EPB
This course exposes students to the role of biostatistics in advancing healthcare and improving health through landmark studies and cases in a wide range of fields, including clinical trials, epidemiology, environmental studies, and healthcare evaluation.

PHC 4101 Introduction to Public Health (3) PH PHC
A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

PHC 4109 Public Health Biology (3) PH PHC
This course offers a biological perspective on public health issues related to chronic and infectious diseases. This course provides an overview of basic biological concepts, molecular biology, and infectious and chronic diseases of public health concern.

PHC 4241 Psychology of Fear & Mental Health Issues Related to Disasters (3) PH PHC
This course identifies, examines and integrates the diverse emergency management, crisis management, contingency planning, and organizational continuity, recovery and restoration issues facing public and private sector organizations.

PHC 4241 Emerging Infectious Diseases (3) PH PHC
This course addresses important infectious diseases and the principles of detection, diagnosis, prevention and control as well as the impact on public health. Students will presenting information on emerging infectious disease trends in group projects.

PHC 4250 Disaster Management: Ensuring Success & Avoiding Failure (3) PH GLO
This course will analyze disasters and the types of lessons resulting from them. Students will explore the root causes of domestic and international disaster successes and failures. Students will also identify possible solutions to these failures.

PHC 4252 Int'l Post-disaster Recovery: Peacekeeping (3) PH GLO
Examining post-disaster recovery and the effects of natural & man-made disasters on the population. This course looks at global programs and tactics aimed toward peacekeeping & peacebuilding to reduce future hostilities and improve living conditions.

PHC 4253 Int'l Humanitarian Crisis: Gender and Health (3) PH GLO
Men/boys and women/girls experience the impact of a Humanitarian Crisis differently. This course examines key issues, principles and practices aimed toward understanding how individuals play a role in preventing, mitigating and responding to crisis.

PHC 4375 Community Participation in Homeland Security (3) PH PHC
This course is intended as an introduction to the role of volunteers in emergency management.

PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals (3) PH PHC
This course is an introduction to the Homeland Security Exercise and Evaluation Program and will discuss the role of planning, training, and exercises in the context of organizational preparedness for emergency management related activities.

PHC 4406 Pop Culture, Vices and Epidemiology (3) PH EPB
Encourages students to think how everyday things affect the public's health and safety. Topics in this class include: Alcohol, Sex, Coffee, Chocolate, Sleep and Tobacco. This class will cover health benefits and consequences of these things and more.

PHC 4501 Health Education Theory and Behavior (3) PH CFH
Development of a basic understanding of the major theories and models focused on the
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHH 3062</td>
<td>History of Western Philosophy: Ancient Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Western philosophy from the Pre-Socratics to Late Antiquity.</td>
</tr>
<tr>
<td>PHH 3280</td>
<td>Medieval and Renaissance Philosophy (3) AS PHI</td>
<td></td>
<td>This course is a survey of medieval and early Renaissance philosophy in the Latin West, focusing on the thought of Augustine, Anselm, Peter Abelard, Thomas Aquinas, John Duns Scotus, and William Ockham.</td>
</tr>
<tr>
<td>PHI 1103</td>
<td>Critical Thinking CASB 6AC (3) AS PHI</td>
<td></td>
<td>A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.</td>
</tr>
<tr>
<td>PHI 1401</td>
<td>Science and Society CANP (3) AS PHI</td>
<td></td>
<td>A study of developments in post-Kantian European philosophy.</td>
</tr>
<tr>
<td>PHI 1600</td>
<td>Contemporary Philosophy 6AC (3) AS PHI</td>
<td></td>
<td>Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.</td>
</tr>
<tr>
<td>PHI 3440</td>
<td>Continental Philosophy (3) AS PHI</td>
<td></td>
<td>A study of developments in post-Kantian European philosophy.</td>
</tr>
<tr>
<td>PHI 4700</td>
<td>American Philosophy 6AC (3) AS PHI</td>
<td></td>
<td>Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.</td>
</tr>
<tr>
<td>PHI 4820</td>
<td>Chinese Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.</td>
</tr>
<tr>
<td>PHC 4542</td>
<td>Stress, Health and College Life (3) PH CFH</td>
<td>PHC 4501</td>
<td>The purpose of this course is to examine the relationship between stress, as a multi-casual concept, health and disease. Focus areas include the historical evolution and current theories of stress as they relate to types of stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.</td>
</tr>
<tr>
<td>PHC 4582</td>
<td>Health Educ Methods, Communication, and Advocacy (3) PH CFH</td>
<td></td>
<td>The purpose of this course is for students to describe and develop those health education methods, communication, and advocacy strategies to enhance the public’s health.</td>
</tr>
<tr>
<td>PHC 4592</td>
<td>Public Health Genetics (3) PH PHC</td>
<td>BSC 1005 or BSC 1020</td>
<td>This course will introduce the fundamental principles of genetics to the field of public health by discussing basic concepts and how advances in human genetics, genomics and molecular biotechnology are to improve public health and prevent diseases.</td>
</tr>
<tr>
<td>PHC 4720</td>
<td>Foundation to Professional Writing in Public Health WRIN 6AC (3) PH EPB</td>
<td></td>
<td>This course provides students the opportunity to learn about all aspects of professional writing techniques including grammar and spelling errors, writing styles, authorship, reference and citation systems, and guidance for scientific communication.</td>
</tr>
<tr>
<td>PHH 4700</td>
<td>American Philosophy (3) AS PHI</td>
<td></td>
<td>Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.</td>
</tr>
<tr>
<td>PHH 4820</td>
<td>Chinese Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.</td>
</tr>
<tr>
<td>PHH 4970</td>
<td>Chinese Philosophy 6AC (3) AS PHI</td>
<td></td>
<td>Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.</td>
</tr>
<tr>
<td>PHH 5933</td>
<td>Special Topics (1-3) PH PCH</td>
<td></td>
<td>Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current public health topics including biomedical issues, social and behavioral factors, and environmental issues.</td>
</tr>
<tr>
<td>PHH 3062</td>
<td>History of Western Philosophy: Ancient Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Western philosophy from the Pre-Socratics to Late Antiquity.</td>
</tr>
<tr>
<td>PHI 3420</td>
<td>Early Modern Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Western Philosophy from the end of the Renaissance to the beginnings of the Enlightenment.</td>
</tr>
<tr>
<td>PHI 3442</td>
<td>Late Modern Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Western Philosophy during the Enlightenment.</td>
</tr>
<tr>
<td>PHI 4000</td>
<td>Contemporary Philosophy 6AC (3) AS PHI</td>
<td></td>
<td>Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.</td>
</tr>
<tr>
<td>PHI 4700</td>
<td>American Philosophy 6AC (3) AS PHI</td>
<td></td>
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<tr>
<td>PHI 4820</td>
<td>Chinese Philosophy (3) AS PHI</td>
<td></td>
<td>A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.</td>
</tr>
<tr>
<td>PHI 1600</td>
<td>Introduction to Ethics CAHU HHCP (3) AS PHI</td>
<td></td>
<td>As consumers of scientific information, it is our social obligation to understand how scientific knowledge comes about. This course is about the process of scientific inquiry, and about scientific knowledge as the product of such inquiry.</td>
</tr>
<tr>
<td>PHI 2010</td>
<td>Introduction to Philosophy CAHU 6AC (3) AS PHI</td>
<td></td>
<td>An introduction to several major themes in philosophy, as well as central philosophical concepts, texts, and methods.</td>
</tr>
<tr>
<td>PHI 2101</td>
<td>Introduction to Formal Logic CAQR 6AM (3) AS PHI</td>
<td></td>
<td>In order to promote reflection concerning how we should act and what kinds of people we should be, this course introduces students to ethical theories, concepts, problems, and methods.</td>
</tr>
</tbody>
</table>
This course is an introduction to the basic terms, concepts, and methods of formal logic.

PHI 2630 Contemporary Moral Issues (3) AS PHI
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

PHI 2631 Ethics and Business (3) AS PHI
An application of traditional ethical theories to contemporary problems in business.

PHI 3130 Formal Logic CAQR 6AM (3) AS PHI
PR: PHI 2101 or MGF 1106 or MGF 1107 or one semester of calculus.
A study of predicate calculus, predicate calculus with identity, formal semantics, and elementary metalogic. Strongly recommended for philosophy majors.

PHI 3404 Philosophy of Science (3) AS PHI
How is science different from other methods of inquiry about the world? What distinguishes science from pseudoscience? From religion? How do we test scientific theories? What are the factors that lead scientists to accept a theory?

PHI 3633 Biomedical Ethics (3) AS PHI
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

PHI 3636 Professional Ethics (3) AS PHI
An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

PHI 3640 Environmental Ethics (3) AS PHI
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

PHI 3700 Philosophy of Religion 6AC (3) AS PHI
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3930 Selected Topics (1-3) AS PHI
Selected topics according to the needs of the student.

PHI 4073 African Philosophy (3) AS PHI
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought.

PHI 4300 Theory of Knowledge 6AC (3) AS PHI
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

PHI 4320 Philosophy of Mind WRIN 6AC (3) AS PHI
A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence.

PHI 4632 Feminist Ethics (3) AS PHI
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others.

PHI 4670 Contemporary Ethical Theory (3) AS PHI
A survey of contemporary ethical theory, focusing both on the literature about the status of ethical theorizing--moral skepticism, moral nihilism, narrative ethics--and on specific types of theories--deontological theories, consequentialist theories, rights-based theories, virtue theories.

PHI 4800 Aesthetics 6AC (3) AS PHI
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content, as well as art and morality.

PHI 4905 Directed Study (1-4) AS PHI
Individual study directed by a faculty member.

PHI 4930 Selected Topics (1-3) AS PHI
Selected topics according to the needs of the senior students.

PHI 4938 Philosophy Capstone Seminar CPST 6AC (3) AS PHI
Exit course for philosophy majors. Topics will vary at instructor’s discretion, but are expected to span conventional boundaries between the branches of philosophical inquiry.

PHI 5135 Symbolic Logic (3) AS PHI
PR: PHI 2101
Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

PHI 5225 Philosophy of Language (3) AS PHI
PR: Eight hours of philosophy
An examination of semantically, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

PHI 5913 Research (1-4) AS PHI
Individual research supervised by a faculty member.

PHI 5934 Selected Topics (1-3) AS PHI
Selected topics according to the needs of the student.

PHM 3020 Philosophies of Love and Sex (3) AS PHI
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

PHM 3100 Social Philosophy 6AC (3) AS PHI
An analysis of rival theories of social order and their philosophical foundations.
### COURSE DESCRIPTIONS

**PHY 2020 Conceptual Physics CANP (3) AS PHY**
A qualitative investigation of physics concepts. Emphasis is placed on using physics to describe how common things work. No previous physics knowledge required.

**PHY 2048 General Physics I - Calculus Based CANP SGEN (3) AS PHY**
PR: MAC 2281 or MAC 2311.
First semester of a two semester sequence of calculus based general physics which includes a study of mechanics, heat, and fluids.

**PHY 2048L General Physics I Laboratory (1) AS PHY**
PR: MAC 2281 or MAC 2311.
First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students.

**PHY 2049 General Physics II - Calculus Based CANP (3) AS PHY**
PR: MAC 2282 or MAC 2312, PHY 2048.
Second semester of calculus based general physics. Topics studied include wave mechanics, electricity and magnetism, and optics.

**PHY 2049L General Physics II Laboratory (1) AS PHY**
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L.
Second semester of general physics and laboratory for physics majors and engineering students.

**PHY 2053 General Physics I CANP SGEN (3) AS PHY**
PR: MAC 1140 and MAC 1114, or MAC 1147.
First semester of a two semester sequence of non-calculus-based general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) for science students.

**PHY 2053L General Physics I Laboratory (1) AS PHY**
First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) laboratory for science students.

**PHY 2054 General Physics II CANP (3) AS PHY**
PR: PHY 2053, PHY 2053L.
Second semester of non-calculus based general physics. Topics studied include electricity and magnetism, optics and modern physics.

**PHY 2054L General Physics II Laboratory (1) AS PHY**
PR: PHY 2053, PHY 2053L.
Second semester of general physics lab for science students.

**PHY 2060 Enriched General Physics I with Calculus (3) AS PHY**
PR: MAC 2311 or MAC 2281 with minimum grade of 'A'
CR: PHY 2048L
First semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of mechanics, kinematics, conservation laws, central forces, harmonic motion, and mechanical waves.
PHY 2061 Enriched General Physics II with Calculus (3) AS PHY
PR: MAC 2312 or MAC 2282 and PHY 2060 with a minimum grade of B
CR: PHY 2049L
Second semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of thermodynamics, electricity, magnetism, electromagnetic fields and waves, circuits, and optics.

PHY 3101 Modern Physics (3) AS PHY
PR: PHY 2049, MAC 2283 or MAC 2313.

PHY 3220 Classical Mechanics (4) AS PHY
PR: PHY 3101 and PHZ 3113.
Topics covered: Newtonian mechanics, oscillatory motion, gravitation, Lagrangian and Hamiltonian Dynamics, Central-Force Motion, Dynamics of a System of Particles, Dynamics of Rigid Bodies, and Non-linear and coupled oscillations.

PHY 3221 Mechanics I (3) AS PHY
PR: PHY 3101 and PHZ 3113.
First semester of a two-semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work.

PHY 3323 Electricity and Magnetism I (3) AS PHY
PR: PHY 3101 and PHZ 3113.
Electrostatic fields and potentials, dielectrics, classical conductivity, RC circuits, Fourier and finite element methods. First semester of sequence PHY 3323, PHY 4324.

PHY 3822L Intermediate Laboratory (3) AS PHY
CR: PHY 3101.
Experiments in modern physics, including the areas of atomic, nuclear, solid state and wave phenomena.

PHY 4031 Great Themes in Physics 6AC (3) AS PHY
PR: PHY 3101

PHY 4151 Computational Physics (3) AS PHY
PR: PHY 3101

PHY 4222 Mechanics II (3) AS PHY
PR: PHY 3221.
Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies.

PHY 4324 Electricity and Magnetism II (3) AS PHY
PR: PHY 3323.
Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell’s equations and applications.

PHY 4424 Optics (3) AS PHY
PR: PHY 3101
Reflection, refraction, dispersion, interference, diffraction and polarization.

PHY 4523 Statistical Physics (3) AS PHY
PR: PHY 3221 or PHY 3323 or PHY 4604.
Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

PHY 4604 Introduction to Quantum Mechanics (3) AS PHY
PR: PHY 3101 and PHZ 3113.
Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.

PHY 4605 Quantum Mechanics II (3) AS PHY
PR: PHY 4604
Second semester of a two-semester sequence in quantum mechanics. Focus given to applications of Schrodinger equation.

PHY 4744C Introduction to Electronics and Test Instrumentation (3) AS PHY
PR: PHY 3822L
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.)

PHY 4823L Advanced Laboratory (3) AS PHY
PR: PHY 3822L
Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.

PHY 4905 Independent Study (1-3) AS PHY
PR: PHY 3101
Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

PHY 4910 Undergraduate Research (1-4) AS PHY
PR: PHY 3101
An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement.

PHY 4930 Undergraduate Seminar (1) AS PHY
PR: PHY 3101
All undergraduate physics majors must enroll in this course at least once. Regular attendance is required. This course introduces students to the research areas in the Physics Department.

PHY 4936 Selected Topics in Physics (1-3) AS PHY

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COURSE DESCRIPTIONS

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Each topic is a course in directed study and under the supervision of a faculty member.

PHZ 4702 Applications of Physics to Biology and Medicine II (4) AS PHY
A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital Ics, breadboarding techniques and electronics test instrumentation. Spring Semester.

PHZ 5115 Methods of Theoretical Physics I (3) AS PHY
PR: MAP 2302
Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 4703 Applications of Physics to Biology and Medicine II (4) AS PHY
PR: PHY-2054, PHY-2054L or PHY-2049, PHY 2049L; PHY 2053
The second semester of a two-semester sequence, to discuss the applications of the physical concepts introduced in the General Physics sequence to biological systems and for medical applications. Restricted to non-majors.

PHZ 4151C Computational Physics (3) AS PHY
PR: CGS 5765
Introduction to computer applications in physics. Emphasis on numerical modeling and simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.

PHZ 2048, PHY 2049, PHY 3101, MAP 2302
Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 4156C Computational Physics I (3) AS PHY
PR: CGS 5765
C programming applied to real science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects selected from current research may include neurobiology, quantum magnetism, chaos, finance, materials science.

PHZ 5116 Methods of Theoretical Physics II (3) AS PHY
PR: MAP 2302
Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 5430 Introductory Physics of Materials (3) AS PHY
PR: MAC 2283 or MAC 2313
Applications of mathematical techniques to classical and modern physics. Subjects selected from current research may include materials science.

PHZ 5405 Solid State Physics I (3) AS PHY
PR: PHY 2049 or PHY 2054.
First semester of sequence PHZ 5405, PHY 5405L.
Theory of metals, insulators, and semiconductors. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

PHZ 5405C Introduction to Computational Physics (3) AS PHY
Introduction to the use of computers for solving problems in physics. No programming experience required.

PHZ 5430 Introductory Physics of Materials (3) AS PHY
PR: PHY 2049 or PHY 2054.
The physics and physical properties of materials. Strong emphasis is on the underlying physics of materials. Particular topics covered include crystal structure, phase, and electrical, thermal, optical, and magnetic properties of materials.

PHZ 5115 Methods of Theoretical Physics I (3) AS PHY
PR: MAP 2302
Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 5116 Methods of Theoretical Physics II (3) AS PHY
PR: MAP 2302
Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

POR 1120 Beginning Portuguese I (4) AS WLE
Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1121 Beginning Portuguese II (4) AS WLE
PR: POR 1120 or equivalent
Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 2200 Intermediate Portuguese I (3) AS WLE
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POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121.

POR 2201 Intermediate Portuguese II (3) AS WLE
For language students who intend to attain basic proficiency.

POR 4905 Directed Study (1-5) AS WLE
Course permits study options in Portuguese not available in the regularly scheduled curriculum at departmental discretion. May be repeated up to 10 hours. S/U Only. Departmental approval required.

POR 4930 Selected Topics (1-3) AS WLE
Course permits study options in Portuguese not available in the regularly scheduled curriculum at departmental discretion. May be repeated up to 10 credit hours. Departmental approval required.

POS 2041 American National Government CASB
SGES (3) AS GIA
This course is intended to introduce students to the theory, institutions, and processes of American government and politics. In addition to learning fundamental information about the American political system, this course is designed to help students think critically about American government and politics.

POS 2080 The American Political Tradition (3) AS GIA
This is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.

POS 2112 State and Local Government and Politics (3) AS GIA
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 Introduction to Urban Politics and Government (3) AS GIA
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3173 Southern Politics (3) AS GIA
Examine changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 Florida Politics and Government (3) AS GIA
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

POS 3273 Practical Politics (3) AS GIA
Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.

POS 3283 Judicial Process and Politics (3) AS GIA
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 Political Parties and Interest Groups (3) AS GIA
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 Introduction to Law and Politics (3) AS GIA
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

POS 3697 Environmental Law (3) AS GIA
Examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. It will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

POS 3713 Empirical Political Analysis (3) AS GIA
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

POS 3931 Selected Topics (3) AS GIA
Selected topics in political science with course content based upon student demand and instructor's interest.

POS 4204 Political Behavior, Public Opinion, and Elections (3) AS GIA
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

POS 4413 The American Presidency 6AC (3) AS GIA
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.

POS 4424 The American Congress (3) AS GIA
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

POS 4614 Constitutional Law I (3) AS GIA
PR: POS 2041.
Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

POS 4624 Constitutional Law II (3) AS GIA
PR: POS 2041.
Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

POS 4693 Women and Law I (3) AS WST
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues.

POS 4694 Women and Law II 6AC (3) AS WST
PR: POS 4693
Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men.

POS 4905 Independent Study (1-3) AS GIA
Specialized study determined by the student's needs and interests.

POS 4910 Individual Research (1-3) AS GIA
Investigation of some aspect of political science culminating in the preparation of an original research paper.

POS 4936 Senior Seminar (3) AS GIA
An opportunity to work with others in a seminar format, exploring specialized topics.

POS 4941 Field Work (3-15) AS GIA
Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

POS 4970 Honor Thesis (3) AS GIA
Writing of honor thesis under direction of faculty members.

POS 5159 Urban Policy Analysis (3) AS GIA
Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.

POT 3003 Introduction to Political Theory (3) AS GIA
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicism theory, analytical theory, and critical theory.

POT 3013 Classical Political Theory (3) AS GIA
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

POT 4054 Modern Political Theory (3) AS GIA
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4064 Contemporary Political Thought (3) AS GIA
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

POT 4109 Politics and Literature 6AC (3) AS GIA
Critical examination of the connections between politics and literature.

POT 4204 American Political Thought (3) AS GIA
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.

POT 4936 Selected Topics in Political Theory (3) AS GIA
Selected topics or thinkers in political theory.

PPE 4003 Personality (3) AS PSY
PR: PSY 3213 with a grade of C or better
Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 3444 Drugs and Behavior (3) AS PSY
This is a basic introduction to drugs and their effects on society and behavior. Specifically, drug regulations and laws will be covered as well as how drugs interact with the brain to alter consciousness.

PSB 4004C Physiological Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better
Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

PSC 2515 Energy and Humanity CANP (3) AS PHY
Explores energy use and its environmental impacts, including climate change. Energy resources, including alternatives to fossil fuels, are discussed. Basic science concepts as well as contemporary technologies are covered.

PSY 2012 Introduction to Psychological Science CASB SGES (3) AS PSY
This course is an introduction to psychology for majors and nonmajors. It presents psychological theory and methods in a survey of various areas of psychology including clinical, cognitive, developmental, health, industrial, social and biopsychology.

PSY 3017 Psychological Science II (3) AS PSY
PR: PSY 2012
Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

PSY 3204 Psychological Statistics CAlR 6AM (3) AS PSY
PR: PSY 2012
Introduction to analyzing psychological data, in the context of behavioral research. Covers basic research design, descriptive statistics, analysis procedures, use of computer analysis packages, interpretation of outputs, and implications for research.

PSY 3213 Research Methods in Psychology (4) AS PSY
PR: PSY 2012 with a grade of C or better
This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. the laboratory section provides experience applying the concepts.
PSY 4205 Experimental Design and Analysis (3) AS PSY
PR: PSY 3213 with grade of C or better
Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4215 Discovering Research in Psychology (3) AS PSY
PR: PSY 3213 (with grade of C+ or better)
This course involves advanced study of approaches to research in psychology and development of various research skills as preparation for conducting independent research.

PSY 4604 History and Systems of Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better
The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 4913 Directed Study (1-3) AS PSY
PR: PSY 3213.
The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. S/U only.

PSY 4931 Selected Topics: Seminar (3) AS PSY
PR: PSY 3213 with a grade of C or better
Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology.

PSY 4932 Honors Seminar CPST (3) AS PSY
PR: PSY 3213 with a grade of C or better
The student, under supervision of a faculty member, will complete a thesis project.

PSY 4933 Advanced Topics in Applied Behavior Analysis (3) AS PSY
PR: EXP 4404 and CLP 4414.
Advanced seminar in the effective and ethical application of behavior analysis to human problems. Includes theoretical and conceptual issues; assessment and treatment procedures; legal, ethical and socio-cultural issues.

PSY 4970 Honors Thesis (1-3) AS PSY
PR: PSY 3213 with a grade of C or better
The student, under supervision of a faculty member, will complete a thesis project.

PSY 4974 Honors Seminar in Psychology - Second Semester WRIN 6AC (3) AS PSY
PR: PSY 4932
Honors Seminar in Psychology (Second Semester) provides students who successfully complete the first semester of Honors Seminar in Psychology the opportunity to conduct, analyze, write up and defend their thesis.

PUP 4002 Public Policy (3) AS GIA
Examines the formation and implementation of public policy in areas such as the economy, health, etc.

PUP 4203 Environmental Politics and Policy (3) AS GIA
Examines the politics of environmental issues, formation and implementation of environmental policy.

PUP 4323 Women and Politics 6AC (3) AS WST
An analysis of the impact of gender on power and influence in American society, and women’s changing role in the political process.

PUP 5607 Public Policy and Health Care (3) AS GIA
The study of health care policy as it relates to the policy process in the American setting.

PUR 3000 Principles of Public Relations (3) AS COM
PR: MMC 2100 and MMC 3602.
The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.

PUR 3500 Public Relations Research (3) AS COM
PR: PUR 3000 and LIS 2005.
The theory and practice of quantitative and qualitative research methods as applicable to the study of public relations and public relations campaigns. Emphasis is on the scope of research methods available to public relations practitioners, evaluation of data and report writing.

PUR 4100 Writing For Public Relations (3) AS COM
PR: JOU 2100 and PUR 3000.
Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios.

PUR 4101 Public Relations Design and Production (3) AS COM
PR: PUR 3000.
Theoretical and practical applications of design for public relations publications. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of different types of public relations publications.

PUR 4401 Public Relations: Issues, Practices and Problems (3) AS COM
PR: PUR 3000.
The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government, and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to
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deal with them successfully and responsibly.
Communication techniques and trends.

PUR 4700 Public Relations Practicum (1) AS COM
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.

PUR 4801 Advanced Public Relations (3) AS COM
PR: PUR 3500, PUR 4100 and PUR 4401
As final course in Public Relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete Public Relations program. Extensive reading in the literature of contemporary practice.

PUR 5505 Introduction to Strategic Communication Theory and Practice (3) AS COM
The course is designed to act as a "bridge" between undergraduate and graduate public relations and advertising education, and between professional communication practices and strategic communication scholarship.

QMB 2100 Business and Economic Statistics I
CAQR 6AM (3) BA QMB
PR: MAC 1105.
Data description; exploratory data analysis; introduction to probability; binomial and normal distributions; sampling distributions; estimation with confidence intervals; tests of hypotheses; control charts for quality improvement.

QMB 3200 Business and Economic Statistics II (3) BA QMB
PR: MAC 2233 or MAC 2241, QMB 2100.
Simple linear regression and correlation; multiple regression and model building; forecasting models; analysis of variance; chi-square tests; nonparametric methods.

QMB 3253 Business Honors Advanced Statistics
CAQR 6AM (3) BA QMB
Comprehensive course in statistics for Business Honors students. Includes the application of statistical concepts to business problems.

QMB 3701 Computational Methods in Business (3) BA QMB
PR: QMB 3253
Introduces Algorithms and Computational Thinking, Linear Programming, Data Analytics, and Game theory used in business decision making; extensive computer-based methods and analysis employed. Restricted to Business Honors students, not repeatable.

RCS 3030 Rehabilitation Counseling Issues in Alcoholism and Other Addictions (3) BC REH

RCS 4931 Selected Topics in Counseling Professions (3) BC REH
This course introduces students to the human services and multiple counseling professions, including, rehabilitation and mental health counseling, career/vocational counseling, forensic counseling, behavioral health and marriage and family therapy.

RCS 5080 Medical Aspects of Disability (3) BC REH
PR: RCS 5780
A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5450 Fundamentals of Substance Abuse Counseling (3) BC REH

RCS 5780 Legal, Ethical, Professional Standards and Issues in Counseling (3) BC REH
An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

RCS 5905 Directed Studies (1-4) BC REH
Supervised rehabilitation studies under the direction of a faculty member.

REA 1205 Advanced Reading (3) US RLS
This course focuses on a broad array of reading strategies to help students enhance comprehension skills as well as develop the fundamentals of critical analysis through the application of a strategic-reflective reading model.

REA 1305 Reading Lab (1-3) US RLS
The focus is on the development of a systematic approach for improving reading comprehension, rate, and expanding vocabulary as well as adjusting rate and technique to adapt to a variety of materials and purposes. Open to all students.

REA 1605 Advanced Learning Systems (2) US RLS
To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyzing task demands, and
intentionally selecting effective strategies for each learning challenge.

**REA 2105 Critical Reading and Writing 6AC (3) US RLS**
This course helps students develop the fundamentals of reflective and critical reading and on effective analytical writing utilizing multiple sources from various disciplines. The course meets the criteria for Gordon Rule writing requirements.

**REA 2505 Vocabulary (3) AS ENG**
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not count toward the English major.

**REA 2604 Strategic Learning (1) US RLS**
For students in academic difficulty, this course introduces students to advanced learning system used to understand individual learning preferences, analyze task demands, and then intentionally select effective strategies for each learning challenge.

**REA 2930 Selected Topics (1-3) US RLS**
Topics will vary to meet the needs of students. Will not be counted toward the English major.

**RED 4310 Reading and Learning to Read (3) ED EDE**
This course will prepare pre-service teachers to understand the foundations of reading and the inherent learning principles to produce successful readers. The course focuses on appropriate instructional strategies to enhance reading development and reading across the curriculum.

**RED 4312 Emergent Literacy Strategies and Assessment (3) ED EDR**
The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support young children's emergent literacy and language learning.

**RED 4335 Teaching Reading in Secondary English Curriculum (3) ED EDI**
Analysis of the reading process; introduction to diagnosis of reading abilities; reading and study skill strategies to increase student achievement in reading.

**RED 4511 Linking Literacy Assessment to Instruction (3) ED EDR**
PR: RED 4310.
This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students' strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

**RED 4724 Intermediate Literacy Strategies and Assessment I (3) ED EDR**
PR: RED 4312.
The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support children's literacy learning in the intermediate grade levels.

**REE 3043 Real Estate Decision Making (3) BA FIN**
PR: FIN 3403.
Acquaints students with the range of knowledge required to engage in real estate decision-making in the United States. Integrates the institutional framework with which decisions are made, the elements of financial analysis, deal structuring and marketing, and the pricing, financing, and allocation of real property in the real estate markets.

**REL 2166 Introduction to Religion and Ecology CAHU HHCP (3) AS REL**
This course introduces students to the academic study of religion with a focus on the relationship between religion and ecology, and the developing subfield of Religious Studies concerned with this relationship.

**REL 2210 Hebrew Bible/Old Testament (3) 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 (3) AS REL**
An introduction to the critical study of the New Testament in the context of Christian beginnings in the first century C.E. This will include readings from the Apocrypha, other Gospels, and letters.

**REL 2300 Introduction to World Religions CAGC HHCP (3) AS REL**
Introduction to World Religions is designed to give students a broad and general overview of the major religious traditions of the world. Students will be exposed to the history, primary beliefs, and information necessary for a primary understanding of each of the religions studied in the course.

**REL 2306 Contemporary World Religions (3) 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 3040 Introduction to Religious Studies (3) AS REL**
This course introduces students to the academic study of religion. Religious thought and behavior are examined from a variety of methodological perspectives. Restricted to majors and minors. Required for the major and the minor in Religious Studies.

**REL 3043 Introduction to Major Religious Texts (3) AS REL**
The course provides an introduction to the study of some of the foundational texts of selected
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REL 3101 Religion and Popular Culture (3) AS REL
An exploration and analysis of the relationship between religion and popular culture, which will include inquiry into the definition and meaning of both religion and popular culture, the impact of secularization on traditional religious systems, and the widely diverse expressions of religion in contemporary popular culture.

REL 3111 The Religious Quest in Contemporary Films CAHU 6AC (3) AS REL
This course uses contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Chosen, and Grand Canyon to explore the personal and social aspects of religion in modern secular societies, pinpointing issues of racism, sexism, liberaion, etc.

REL 3114 Comedy, Tragedy, and Religion 6AC (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 (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 (3) AS REL
This course explores the function of sports in America. It covers the history of sports; the status of American sports; and sports as religious events. The course is open to majors and non-majors and is not repeatable for credit.

REL 3120 Religion in America (3) AS REL
To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

REL 3131 New Religions in America CAGC HHCP (3) AS REL
This course entitled New Religions in America is designed to give students an overview of the rich religious history of America particularly in regard to the unique cultivation of new religious movements in America spanning from 1850 – the present.

REL 3132 Witchcraft and Paganism in America (3) AS REL
A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 3140 Religion, Culture, and Society (3) AS REL
Introductory scholarly survey of religion in its complex relationship to culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions. Open to non majors.

REL 3145 In Search of the Goddess (3) AS REL
This course explores Goddess religion/sacred Feminine, from prehistory, to the pagan Near East and Mediterranean, Western monotheistic religions, pluralistic religions of the East, and revivals of Goddess spirituality in contemporary Europe/N. America.

REL 3146 Women and Religion 6AC (3) AS REL
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them.

REL 3170 Religion, Ethics and Society Through Film 6AC (3) AS REL
An ethical analysis of contemporary social issues through contemporary films such as Wall Street and Crimes and Misdemeanors, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

REL 3191 Life After Death (3) AS REL
An exploration of ideas about life after death and its relations to this life in Judaism, Christianity, Islam, Hinduism, and Buddhism.

REL 3280 Biblical Archaeology (3) AS REL
An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3303 Comparative Religion: Judaism and Islam (3) AS REL
This course is framed within the academic study of religion, and it does not concern itself with contemporary political difference in the Middle East. It treats as Islam the normative statements of the Quaran and related traditions, and as Judaism the authoritative statements of the Torah, oral and written.

REL 3308 World Religions 6AC (3) AS REL
World Religions gives students an overview of the major religions of the world from their origins through the modern period. Special attention is given to the analysis of myths, rituals, history, and other features of the religions.

REL 3318 Introduction to Chinese Religion (3) AS REL
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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.

REL 3330 Religions of South Asia (3) AS REL
All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Baha’i. Readings from classical texts and modern literature.

REL 3335 Gods and Goddesses of India (3) AS REL
This course explores the ways Hindus see, speak about, and encounter the Divine through an examination of the multitude of stories about the gods and goddesses and their various physical manifestations in the sacred geography of India.

REL 3340 Buddhism Truths and Paths (3) AS REL
This course provides an historical survey of Buddhist religion from its inception through today by focusing on the life and teachings of the historical Buddha, doctrinal development, the various denominations, and canon formation.

REL 3363 Introduction to Islam (3) AS REL
This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).

REL 3367 Islam in the Modern World 6AC (3) AS REL
Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.

REL 3375 Issues in Caribbean Religions CPST (3) AS REL
The course examines major social, political, economic, and cultural issues in Caribbean religions mainly in Jamaica, Cuba, Haiti, and Trinidad. Issues reflected in African diasporan religions and encounters with Western and Eastern ones are studied.

REL 3380 Native American Religions (3) AS REL
Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

REL 3420 Contemporary Religious Thought (3) AS REL
An examination of the central ideas of recent religious thinkers; such as Gandhi, Martin Luther King, Jr., Elie Wiesel, Thich Nhat Hanh, Dorothy Day, Dorothee Soelle, Howard Thurman, Thomas Merton and others.

REL 3444 Womanist Vision in Religion (3) AS REL
This course examines the works of Black Womanist writers in religion for their contributions to and insights into the phenomena of religion in America and the world.

REL 3465 Religion and the Meaning of Life 6AC (3) AS REL
What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.

REL 3500 History of Christianity 6AC (3) AS REL
Historical development of Western Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

REL 3505 Introduction to Christianity (3) AS REL
Introduction to fundamental elements of Christianity, including: foundational texts and core beliefs; the background and historical development of Christian thought; the expression of the religion throughout culture; Christianity as a global religion.

REL 3561 Roman Catholicism 6AC (3) AS REL
An examination of the history, doctrine, and ethics of the Roman Catholic Church.

REL 3602 Classics of Judaism 6AC (3) AS REL
PR: One course in Religious Studies.
How to read the principal documents of Judaism beyond the Hebrew Bible, including the Mishnah, Talmud, Midrash, and classics of philosophy, mysticism, and theology through the modern period.

REL 3607 Introduction to Judaism 6AC (3) AS REL
An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

REL 3611 History of Judaism (3) AS REL
A study of the evolution of the religion of ancient Israel from the Second Temple period to the end of the second century C.E., seen against the background of its historical, geographical, political, social and spiritual setting.

REL 3613 Modern Judaism 6AC (3) AS REL
A study of modern Jewish life and thought in the West, including the study of beliefs, practices, institutions, major thinkers, and intellectual trends.

REL 3801 History of Writing (2) AS REL
Study, in reasonable detail, of the history and evolution of writing within its societal context. We will stress the development of writing in Mesopotamia, Egypt, and the Mediterranean World, looking at the transition from oral to written literature and its impact on religion.

REL 3900 Directed Readings (1-4) AS REL
Individual guidance in concentrated reading on a selected topic.

REL 3936 Selected Topics (1-3) AS REL
Course contents depend on students' needs.

REL 4108 Religion and Food (3) AS REL
Course applies categories in the academic study of religion (symbol, ritual, the divine, the sacred/profane, ethics, etc.) to food and religion.
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REL 4113 The Hero and Religion 6AC (3) AS REL
A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.

REL 4133 Mormonism in America (3) AS REL
A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 4171 Contemporary Christian Ethics 6AC (3) AS REL
A survey of representative approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society, with an emphasis on issues of race and gender and of violence and non-violence.

REL 4177 Comparative Religious Ethics 6AC (3) AS REL
A comparative study of religious ethics emphasizing how 20th century social activists, such as Ghandi and M. L. King Jr. and eco-feminists such as Rosemary Ruether and Joanna Macy, 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.

REL 4188 Religion and Ecology Seminar (3) AS REL
Course applies categories in the academic study of religion (symbol, myth, ethics, community, ultimate power, and so on) to ecology. Considers how religion and ecology relate and have related historically.

REL 4193 Comparative Mysticism (3) AS REL
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 4213 Early Jewish Literature CPST 6AC (3) AS REL
This course undertakes close readings of a wide range of early Jewish texts to better understand the role of scripture in the ancient world and to gain insight into the cultural and religious world from which rabbinc Judaism and Christianity emerged.

REL 4215 Ancient Israel and the Development of the Hebrew Bible 6AC (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 4216 Who Wrote the Bible (Genesis-Kings) 6AC (3) 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 Ancient Near Eastern context.

REL 4245 New Testament I: Gospels, Acts (3) AS REL
An exploration of the Gospels and Acts, including their backgrounds in Judaism and Greco-Roman religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 Jesus’ Life and Teachings (3) 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 (3) AS REL

REL 4291 Women and the Bible 6AC (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.

REL 4333 Hindu Texts and Contexts (3) AS REL
PR: REL 3330 or similar course focusing on Hinduism
An in-depth of the classical texts of the Hindu Tradition. We will examine religious, philosophical, ethical, ritual, and mythological themes presented in these texts in order to gain a deeper understanding to the larger tradition we call “Hinduism”.

REL 4499 Classics of Christian Thought WRIN 6AC (3) AS REL
This course is designed to introduce students to some of the “greatest hits” of Christian thought from the fourth century through the nineteenth. Students will be exposed to formative works from the patristic, medieval, Reformation and modern era.

REL 4566 Old Order Anabaptists (3) AS REL
Explores and compares the sectarian character of Old Order Anabaptists, focusing on Hutterites, Amish, Mennonites, and Brethren.

REL 4910 Undergraduate Research (1-4) AS REL
Individual investigations with faculty supervision.

REL 4911 Undergraduate Research (1-4) AS REL
Individual investigations with faculty supervision.
COURSE DESCRIPTIONS

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REL 4931 Seminar in Religion WRIN 6AC (3) AS REL
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 (1-3) AS REL
Individual investigations with faculty supervision.

REL 4937 Selected Topics: Fall Honors Seminar (3) AS REL
The course content will depend upon student demand and instructor's interest.

REL 4938 Selected Topics: Spring Honors Seminar (2) AS REL
The course content will depend upon student demand and instructor's interest.

REL 4939 The Development of Religious Studies (3) 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.

RTV 2100 Writing For Radio and TV (3) AS COM
PR: MMC 2100 and MMC 3602.
This course is designed to teach how to write scripts for radio, television and new media with exposure to non-broadcast media writing. This course will teach standard formats and techniques used by professional scriptwriters.

RTV 3001 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 (3) 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
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 structures, appeals and strengths.

RTV 4942 TV Practicum (1) AS COM
PR: RTV 4220
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.

RUS 1120 Beginning Russian I (4) AS WLE
The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1121 Beginning Russian II (4) AS WLE
PR: RUS 1120
The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 2220 Intermediate Russian I (4) AS WLE
PR: First year Russian or equivalent.
Review and development of basic skills in conversation, composition, and reading.

RUS 2221 Intermediate Russian II (4) AS WLE
PR: RUS 2220 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 Russian Language & Culture through Film (3) AS WLE
PR: RUS 2221
Development of basic conversational skills.

RUS 3470 Overseas Study (1-6) AS WLE
PR: Two years Russian
Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

RUS 3500 Russian Civilization 6AC (3) AS WLE
A survey of the cultural history of Russia.

RUS 4241 Russian Language & Culture through Film II (3) AS WLE
PR: RUS 3240 or equivalent.
Development of conversational skills.

RUS 4900 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

RUS 4905 Directed Study (1-3) AS WLE

RUT 3110 Nineteenth Century Russian Literature in English WRIN 6AC (3) AS WLE
Masterpieces of 19th Century Russian Literature in English. Works by Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, Tolstoy, Chekhov.
COURSE DESCRIPTIONS

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RUT 3111 Twentieth-Century Russian Literature in English CPST WRIN 6AC (3) AS WLE
Survey of the major authors of 20th Century Russian literature in English. Major works of Babel, Bulgakov, Olesha, Pasternak, Solzhenitsyn, and Zamyatin.

SCE 3941 Practicum I: Middle School Science Education (1-3) ED EDI
1. The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.

SCE 3942 Practicum II: Middle School Science Education (1-3) ED EDI
Candidates will spend nine hours a week in an assigned school, in a grade level or subject area other than the one completed in Practicum I, providing supervised one-on-one, small group, and whole group instruction, and will attend university seminars.

SCE 4305 Communication Skills in the Science Classroom (3) ED EDI
Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.

SCE 4310 Teaching Elementary School Science (3) ED EDE
Techniques and materials for teaching science in the elementary school.

SCE 4320 Teaching Methods in Middle Grade Science I (3) ED EDI
CR: EDM 3403, SCE 3941 and SCE 3942
The purpose of this course for education majors is to develop pedagogical content knowledge as it pertains to the teaching and learning of science, concentrating on skills and strategies necessary to teach science at the middle school level.

SCE 4330 Methods of Secondary Science Education (3) ED EDI
The purpose of this course for science education majors is to develop pedagogical content knowledge as it pertains to the teaching and learning of science in grades 6-12.

SCE 4863 Science, Technology, Society Interaction 6AC (3) ED EDI
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) intricacies of sample STS topics.

SCE 4936 Senior Seminar in Science Education CPST (3) ED EDI
CR: SCE 4940.
Synthesis of teacher candidate’s courses in complete college program.

SCE 4940 Internship: Science Education (1-12) ED EDI
CR: SCE 4936.

SCE 4941 Internship I: Middle School Science Education (1-12) ED EDI
1. Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased responsibility for planning instruction and assessing student learning, and will attend internship seminars.

SCE 4942 Internship II: Middle School Science Education (1-12) ED EDI
Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.

SCE 4945 Practicum in Secondary Science Education (3) ED EDI
CR: SCE 4320.
This practicum provides students majoring in biology, chemistry or physics education with structured field experiences in science classrooms at the secondary school level. Restricted to majors and non-repeatable for credit.

SCE 5325 Methods of Middle Grades Science Education (3) ED EDI
Prepare 5-9 sci teachers to tch sci skills, content; interrelationship, applications of sci as a human endeavor; nature of sci; instructional methods; nature scientific inquiry; development of sci process skills; integration of subj areas; & assessment.

SCE 5337 Methods of Secondary Science Education (3) ED EDI
Course concentrates on goals, subject matter teaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.

SCE 5564 Reading and Communication in Science Education (3) ED EDI
This course prepares secondary science teachers to teach literacy practices in science. It includes methods for selecting appropriate reading and language approaches. Communication in science and functional aspects of scientific literacy are examined.

SCE 5937 Selected Topics in Science Education (1-4) ED EDI

SDS 3341 Career Development for Student Athletes (2-3) ED EDF
This course will prepare student athletes for transition to life after college. Students will identify career options based on interests, values and skills, research occupations, make effective decisions & learn job search techniques.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG

SDS 4942 Practicum in Career Development for Student-Athletes (0-2) ED EDF
This course was designed to ensure undergraduates have practical experience engaging in a mentor relationship with professionals in our community in order to lay a foundation toward a sustainable support system for post-collegiate success.

SLS 1101 The University Experience (1-3) US DEA
An extended introduction to USF. Topics include purposes of higher education, structure and function of USF, career planning, selecting a major, study skills, managing time, academic advising, computer resources, and decision-making.

SLS 2401 Career Development for Today (1-3) US DEA
Students will study vocational choice theories and participate in career decision processes. Development of self-awareness and knowledge of career opportunities and requirements necessary for decision making. Available to lower level majors or non-majors.

SLS 2901 Academic Foundations Seminar (1-3) US DEA
This course offers an introduction to students' first years at USF that is designed to prepare them for a successful college experience. The course provides the necessary knowledge and experiences for students to be successful personally and academically.

SLS 3275 Student Leadership on Campus (0-3) US DEA
This course promotes leadership and university knowledge among student leadership candidates. Students will learn about communication, customer service, team dynamics, student transition issues, academic support and issues of diversity, among many other topics.

SLS 3308 Job Search (3) US DEA
Students will prepare for a smooth transition to the ever-evolving workplace by becoming aware of current job seeking trends and skills that will promote success in the job search process.

SLS 3407 Strategies for Veteran Success (3) US DEA
This course facilitates the transition from military service to college with the goal of promoting student Veteran retention, graduation and job placement. It seeks to assist military veteran students in their integration into life outside the military.

SOP 3742 Psychology of Women (3) AS WST
An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle.

SOP 4004 Social Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better
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, PSY 3213
Students study social psychology theory and research while working at an AIDS 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 manifestations of hatred in language, relationships, and the ultimate impacts on victims and survivors and rescuers.

SOP 4702 Psychology of Gender (3) AS PSY
This course is designed to introduce students to the psychological study of gender, from developmental, biological, social, and cultural perspectives.

SOP 4714C Environmental Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better
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 (3) BC SOK
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 (3) BC SOK
PR: SOW 3101, SOW 4341, SOW 4522.
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 Introduction to Social Work (3) BC 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 3210 The American Social Welfare System (3) BC 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 3401 Research and Statistics For Social Work (3) BC SOK
PR: SOW 3101, SOW 3434, SOW 4522
The purpose of this course is two-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 (3) BC SOK
PR: SOW 3101, SOW 3401, SOW 4341, SOW 4522, SOW 3102, SOW 4343
CR: SOW 4510, SOW 4510L
An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4315 Social Work Case Management with Special Populations (3) BC SOK
PR: SOW 4341
This course is designed to develop student knowledge, skills, and values for providing effective case management services in a variety of settings. Students become aware of evidence-based case management practices with at risk populations.

SOW 4341 Multi-Methods of Social Work Practice I: Micro-System Intervention (3) BC SOK
CR: SOW 3101; SOW 4522
First practice course emphasizing development of skills and interventional methods 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 (3) BC SOK
PR: SOW 3101, SOW 4522, SOW 4341
CR: SOW 3401, and SOW 3102
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 4414 Social Work Data Management (3) BC SOK
PR: SOW 3401
The purpose of this course is to introduce students to quantitative tools used to describe/interpret data used in social work practice, research and policy formation. Students learn to plan and conduct analyses guided by understanding of social work.

SOW 4510 Integrative Seminar (9) BC SOK
PR: SOW 3210, SOW 3301, SOW 3101, SOW 3102, SOW 3401, SOW 4341, SOW 4343, SOW 4522
The field seminar course is designed to offer a structured environment in which to integrate academic coursework with a structured field placement. Restricted to majors, repeatable for full credit.

SOW 4522 Multicultural America in a Global Society (3) BC SOK
This course is an introduction to the study of diverse cultures, abilities, and norms which comprise our global society. The content centers on the diverse client systems that practitioners will interface with as change agents and advocates.

SOW 4602 Social Work Practice in Mental Health and Health Care (3) BC SOK
PR: SOW 4343
The purpose of this course is to introduce students to social work practice in mental health and health care settings. Students will be introduced to a variety of mental health and health assessments and interventions.

SOW 4900 Directed Readings (1-9) BC SOK
PR: Completion of four social work courses including SOW 3401
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) BC SOK
PR: Completion of four social work courses including SOW 3401
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) BC SOK
Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SPA 3002 Introduction to Disorders of Speech and Language (3) BC CSD
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) BC CSD
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) BC CSD
PR: SPA 3030, SPA 3112.
Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

SPA 3030 Introduction to Hearing Science (3) BC CSD

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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) BC CSD**
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) BC CSD**
CR: SPA 3112L
Introduction to phonetic analysis of normal and disordered speech, including training in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.

**SPA 3112L Applied Phonetics Laboratory (1) BC CSD**
CR: SPA 3112
Laboratory experience offering extensive practice in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.

**SPA 3261 Language Science for Comm. Sciences & Disorders (3) BC CSD**
This course will present a focused introduction to linguistics and psycholinguistics from the perspective of CSD. Students will learn the fundamentals of language structure, basic facts about language processing, and how they relate to CSD.

**SPA 3310 Introduction to Disorders of Hearing (3) BC CSD**
PR: SPA 3030
The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

**SPA 3470 Culture and Diversity in CSD (3) BC CSD**
An introduction to intercultural communication. Exploration of cultural backgrounds and cultures of various groups highly represented in the US. Explore cultural differences which affect ASL interpreters and speech pathologists.

**SPA 3653 Overview of Language Learning in Deaf Children (3) BC CSD**
CR: SPA 3653L
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) BC CSD**
CR: SPA 3653
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) BC CSD**
An overview of hearing science and speech science relating to the educational environment. This course introduces 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 4050 Introduction to the Clinical Process CPST (3) BC CSD**
PR: SPA 3004 and SPA 3310.
Observation and participation in speech-language pathology and audiology services provided at USF-CSD clinical laboratory. Professional and ethical issues, oral and written communication skills are stressed through clinical and practical projects.

**SPA 4104 Neuroanatomy for Speech, Language and Hearing (3) BC CSD**
PR: SPA 3101 (highly recommended).
Students will learn neuroanatomical & neuropsychological principles, structures, and functions that subserve speech, hearing, language and cognition. A case-based approach will enable understanding of behavioral manifestations of neuropathologies.

**SPA 4201 Phonological Development and Disorders (3) BC CSD**
PR: SPA 3004, SPA 3310.
An examination of normal and deviant articulatory and phonological acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

**SPA 4210 Vocal Disorders (3) BC 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 4222 Fluency Disorders (3) BC 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 4250 Introduction to Speech Disorders (3) BC CSD**
PR: SPA 3101.
This course will provide an overview of the mechanisms involved in speech production, and will review the nature and impact of speech sound disorders, fluency disorders, voice and resonance disorders, and organic speech disorders.
COURSE DESCRIPTIONS

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SPA 4257 Adult Communication Disorders (3) BC CSD
PR: SPA 4104.

SPA 4321 Introduction to Audioligic Rehabilitation (3) BC CSD
PR: SPA 3310
Assessment and management of individuals with hearing loss. Topics include: effects of hearing loss; assessment and intervention, including: a) amplification and cochlear implants; b) speechreading and auditory training; c) communication intervention.

SPA 4510 Intro. to Clinical Methods and Counseling in CSD (3) BC CSD
PR: SPA 3004, SPA 3310.
This course introduces the student to fundamental skills and knowledge needed prior to beginning clinical work in speech-language pathology/audiology. Professional/ethical issues, principles of assessment/intervention,& interviewing skills are included.

SPA 4555 Counseling of Communicatively Handicapped and Family (3) BC CSD
PR: SPA 3011 and SPA 3310.
Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.

SPA 4632 Nature and Needs of the Deaf and Hard of Hearing (3) BC 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 4901 Research, Clinical, and Professional Issues in CSD (3) BC CSD
This course introduces students to principles of research in CSD & provides an introduction to advanced areas of study in the field. Students are presented with the basic tools of research & will learn about the breadth of research conducted in the field.

SPA 4906 Independent Study (1-10) BC 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) BC 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 (1-3) BC CSD
Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 4962 Undergraduate Comprehensive Examination (1) BC CSD
PR: INT 4250.
This purpose of this course is to ensure that graduates from ITT are thoroughly prepared for entry into the job market. For majors only and repeatable if necessary. It consists of 2 parts: individual meetings with an advisor and a comprehensive exam.

SPA 4970 Honors Thesis (1-10) BC CSD
The student, under the supervision of a Faculty member will formalize, conduct, analyze and report in writing a research project in the Department of Communication Sciences and Disorders. The course is repeatable for a total of 10 credits. Majors only.

SPA 5120 Psychoacoustics (3) BC CSD

SPA 5132 Audiology Instrumentation (3) BC CSD
PR: SPA 5120, SPA 6930, SPA 5506.
Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.

SPA 5133C Speech Science Instrumentation (3) BC CSD
PR: SPA 3011 or equivalent.
Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology (3) BC CSD
Covers fundamental mathematical and statistical concepts underlying the field of Communication Sciences and Disorders and application of these concepts to practical and clinical problems. Not restricted to majors or repeatable for credit.

SPA 5204 Advanced Clinical Phonology (3) BC 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 5303 Auditory Anatomy and Physiology (3) BC 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 auidoec measurement paradigms.

SPA 5328 Rehabilitative Audiology for Adults (3) BC CSD
### COURSE DESCRIPTIONS

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 3513</td>
<td>Argumentation and Debate (3) AS SPE</td>
<td>Study of principles of argumentation as applied in group settings.</td>
</tr>
<tr>
<td>SPC 3425</td>
<td>Group Communication 6AC (3) AS SPE</td>
<td>Study 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.</td>
</tr>
<tr>
<td>SPC 3301</td>
<td>Interpersonal Communication CASB (3)</td>
<td>Study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.</td>
</tr>
<tr>
<td>SPA 5403</td>
<td>Language-Learning in the School-Age Years (3) BC CSD</td>
<td>Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.</td>
</tr>
<tr>
<td>SPA 5552</td>
<td>Diagnostic Principles and Practices (3) BC CSD</td>
<td>The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.</td>
</tr>
<tr>
<td>SPC 2608</td>
<td>Public Speaking CAHU (3) AS SPE</td>
<td>Study of source, message, and receiver variables in human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experiences in public discourse.</td>
</tr>
<tr>
<td>SPC 3212</td>
<td>Communication Theory (3) AS SPE</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3680</td>
<td>Rhetorical Analysis (3) AS SPE</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3602</td>
<td>Advanced Public Speaking (3) AS SPE</td>
<td>Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.</td>
</tr>
<tr>
<td>SPC 3554</td>
<td>Persuasion and Media (3) AS SPE</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3605</td>
<td>Communicating Emotions 6AC (3) AS SPE</td>
<td>Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.</td>
</tr>
<tr>
<td>SPC 3653</td>
<td>Popular Forms of Public Communication (3) AS SPE</td>
<td>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.</td>
</tr>
</tbody>
</table>
love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotion, subjectivity, and betrayal.

**SPC 4321 Communication and Aging (3) AS SPE**
PR: SPC 3301.
Examines theories of aging through intergenerational and interpersonal communication, explores aging in the media, and considers contexts of communication in older adulthood. Majors only; non-majors by permit only. May not be repeated for credit.

**SPC 4431 Family Communication (3) AS SPE**
PR: SPC 3301 and COM 2000 with C- or above
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 6AC (3) AS SPE**
PR: SPC 3230 or SPC 3680.
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 3680, SPC 2608 and COM 2000 each with a C
An introduction to the criticism of media forms and effects. Contemporary perspectives on the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.

**SPC 4701 Intercultural Communication (3) AS SPE**
Explores issues of culture, power, and politics inherent in the ways we practice intercultural communication. For majors only; non-majors by permit only. May not be repeated for credit.

**SPC 4714 Communication, Culture and Community (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 volunteer organization.

**SPC 4900 Directed Readings (1-3) AS SPE**
PR: COM 2000
Individualized reading with professor to complement undergraduate research projects.

**SPC 4903 Honors Readings (3) AS SPE**
PR: COM 2000 AND SPC 2608 with grades of C or better.
Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.

**SPC 4905 Undergraduate Research (1-3) AS SPE**
PR: COM 2000
Individual investigations with faculty supervision.

**SPC 4930 Selected Topics (1-3) AS SPE**
Variable topics.

**SPC 4932 Senior Seminar in Communication (3) AS SPE**
PR: COM 2000
Exploration of selected topics of current significance to the several areas of communication through group discussion and research.

**SPC 4970 Honors Thesis (3) AS SPE**
Involves individual research and preparation of an undergraduate honors thesis.

**SPC 5930 Topics in Discourse (3) AS SPE**
Variable topics course.

**SPM 3012 Issues in Sport (3) ED EDP**
A study of organized sport as a pervasive part of contemporary society. By increasing understanding of some of the issues and controversies based on the structure of sport and society, individuals will be able to understand and improve sport experiences for themselves and others.

**SPM 3256 Sport in Society: Contemporary Issues (3) ED EDP**
A study of organized sport in society. Individuals will be able to understand issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports.

**SPN 1120 Beginning Spanish I (4) AS WLE**
Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 1121 Beginning Spanish II (4) AS WLE**
PR: SPN 1120 or equivalent
Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 2200 Spanish III (3) AS WLE**
PR: SPN 1121 or equivalent.
Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 2201 Spanish IV (3) AS WLE**
PR: SPN 2200 or equivalent.
Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

**SPN 2240 Conversation I (3) AS WLE**
PR: SPN 2201.
For development of basic conversational skills.

**SPN 2241 Conversation II (3) AS WLE**
PR: SPN 2240 or equivalent.
To improve fluency in spoken Spanish.

**SPN 2270 Overseas Study (1-6) AS WLE**
PR: SPN 1121.
An intensive study-travel program in a Spanish-speaking country.

**SPN 2340 Advanced Spanish for Native Speakers I (3) AS WLE**
### Course Descriptions

**Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on cultural exploration and the grammatical problems of such speakers.**

**SPN 2341 Advanced Spanish for Native Speakers II (3) AS WLE**  
PR: SPN 2340  
Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but with limited or no training in the language. Emphasis on grammar problems affecting such speakers.

**SPN 3300 Advanced Spanish Grammar and Composition (3) AS WLE**  
PR: SPN 2201 or equivalent.  
A study of syntax, grammar and writing.

**SPN 3440 Spanish for Business and International Trade I (3) AS WLE**  
PR: SPN 2201 or equivalent.  
A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.

**SPN 3441 Spanish for Business and International Trade II (3) AS WLE**  
PR: SPN 3440 or equivalent.  
Continuation of SPN 3440. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.

**SPN 3500 Spanish Civilization (3) AS WLE**  
PR: SPN 2201 or equivalent.  
The culture and civilization of Spain. For majors and non-majors.

**SPN 3514 The Three Cultures of Medieval Spain (3) AS WLE**  
In this course students will have the opportunity to explore the history and traditions of three of the world’s leading religions in the context of the Iberian Peninsula and its Jewish, Christian, and Arabic past.

**SPN 3520 Spanish American Civilization (3) AS WLE**  
PR: SPN 2201 or equivalent.  
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

**SPN 3564 Spain Today: Culture and Politics in the Media (3) AS WLE**  
This course teaches contemporary culture in Spain through a variety of media and cultural authentic materials. Course primarily discussion-based with short introductions of historical and cultural contexts.

**SPN 4301 Expository Writing (3) AS WLE**  
PR: SPN 3300 or SPN 2340.  
Practical training in contemporary Spanish structure, usage and stylistic devices.

**SPN 4410 Advanced Conversation (3) AS WLE**  
PR: SPN 2241 or equivalent.  
Intensive practice in the formulation and expression of ideas in standard Spanish.

**SPN 4470 Advanced Overseas Study (1-6) AS WLE**  
PR: SPN 2270.  
Intensive language study in Spain.

**SPN 4700 Spanish Linguistics (3) AS WLE**  
PR: LIN 3010 or equivalent and SPN 2201 or equivalent.  
An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

**SPN 5525 Modern Spanish American Civilization (3) AS WLE**  
PR: SPN 3520 or equivalent.  
Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.

**SPN 5567 Modern Spanish Civilization (3) AS WLE**  
PR: SPN 3500 or equivalent.  
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.

**SPT 3100 Masterpieces of Hispanic Literature (3) AS WLE**  
This course analyzes major literary works from Spain and Latin America. Through a selection of works from the medieval period to the present students will view the intellectual and cultural history of the Spanish speaking world.

**SPW 3030 Introduction to Hispanic Literary Studies (3) AS WLE**  
PR: SPN 3300 or SPN 2340.  
Prose fiction, drama, poetry, and essay; techniques of literary analysis.

**SPW 4100 Survey of Spanish Literature I (3) AS WLE**  
PR: SPW 3030 or equivalent.  
A study of Spanish literature from its origins through the 17th century.

**SPW 4101 Survey of Spanish Literature II (3) AS WLE**  
PR: SPW 3030 or equivalent.  
A study of the later periods of Spanish literature.

**SPW 4130 Survey of Spanish American Literature I (3) AS WLE**  
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 writers of history, descriptive and lyric poetry, theater, fiction and essay.

**SPW 4131 Survey of Spanish-American Literature II (3) AS WLE**  
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.

**SPW 4311 The Creative Genius of the Golden Age (3) AS WLE**  
In this course we will explore the works of art produced by master painters (Velázquez, etc.), the music of renowned musicians (Encina, etc.), and the literary works of some of the world's most renowned writers.

**SPW 4900 Directed Study (1-3) AS WLE**

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

**SPW 5135 Colonial Spanish American Literature (3) AS WLE**  
PR: SPW 4131.  
Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.

**SPW 5339 Golden Age Drama (3) AS WLE**  
PR: SPW 4100.  
Lope de Vega, Alarcon, Tirso, Calderon, and others.

**SPW 5387 Spanish American Prose (3) AS WLE**  
PR: SPW 4131.  
Emphasis on the gaucho theme and contemporary prose fiction.

**SPW 5405 Medieval Literature (3) AS WLE**  
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.

**SPW 5465 19th Century Literature (3) AS WLE**  
PR: SPW 4101.  
An appreciation of the romantic and realist periods in Spanish literature.

**SPW 5605 Cervantes (3) AS WLE**  
Cervantes' masterpiece Don Quijote de la Mancha.

**SPW 5725 Generation of 1898 (3) AS WLE**  
PR: SPW 4101.  
The major figures of the period and their main followers.

**SPW 5934 Selected Topics (3) AS WLE**  
Study of an author, movement, or theme.

**SSE 4313 Teaching Elementary (K-6) Social Studies (3) ED EDE**  
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.

**SSE 4333 Teaching Middle Grades Social Science (3) ED EDI**  
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 material that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Fieldwork is required.

**SSE 4334 Teaching Secondary Grades Social Science (3) ED EDI**  
PR: SSE 4333.  
This course is a continuation of SSE 4333 with further development of the instructional techniques and strategies and the information, skills, and modes of reasoning unique to the social sciences with an emphasis on the secondary school environment. The teaching profession, school settings, legal, and classroom management issues are also studied. Fieldwork in a high school is required.

**SSE 4335 Teaching Social Science Themes (3) ED EDI**  
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students;  
The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are 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) ED EDI**  
PR: EDG 3604 and EDG 4620  
Examination of the major issues surrounding global and multicultural perspectives in education. Available to non-Education majors.

**SSE 4600 Reading and Basic Skills in the Social Studies Class (3) ED EDI**  
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 4936 Senior Seminar in Social Science Education CPST (3) ED EDI**  
CR: 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 EDI**  
CR: SSE 4936  
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) ED EDI
Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.

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 5946 Practicum in Social Science Education (3) ED EDI
PR: SSE 5331.
The course is a practicum course in which pre-service teachers apply the knowledge, skills, and dispositions learned in prerequisite program courses to teach the social studies themes adopted by the National Council for the Social Studies.

STA 2023 Introductory Statistics I CAQR 6AM SGEM (3) AS MTH
PR: C (2.0) or better in High School Algebra or Elementary Algebra CPT score of 72 or better.

STA 2122 Social Science Statistics CAQR 6AM (3) AS ISS
Students are taught the fundamental vocabulary and symbols of statistics as well as commonly used statistical procedures in social sciences. Students conduct analyses, interpret results and make conclusions about research questions.

STA 3024 Introductory Statistics II 6AM (3) AS MTH
PR: STA 2023
Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.

STA 3027 Statistics and Probability Connections (3) AS MTH
PR: Calculus I.
This course will provide prospective teachers with experiences in statistics and probability theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

STA 4102 Computational Methods for Applied Statistics (3) AS MTH
PR: STA 2023 and STA 3024.
This course introduces fundamentals of the R and SAS statistical software packages. Topics include data manipulation, graphs, regression, ANOVA, hypothesis testing, and non-parametric tests.

STA 4222 Sample Survey Design (3) AS MTH
PR: STA 2023 and STA 3024.
The course covers common statistical survey design methods, including random sampling, stratified sampling, systematic sampling, and cluster sampling. Other topics include bias and non-sampling errors.

STA 4321 Essentials of Statistics 6AM (3) AS MTH
PR: STA 4442.
Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric methods.

STA 4442 Introduction to Probability 6AM (3) AS MTH
PR: STA 4442.
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 4502 Nonparametric Statistical Methods (3) AS MTH
PR: STA 4321.
This course covers the fundamental concepts, and provides examples, of nonparametric statistical methods. Topics to be covered include sample testing, estimation methods, layout models, correlation and regression models, and goodness of fit tests.

STA 4504 Categorical Data Analysis (3) AS MTH
PR: STA 4321.
Fundamental concepts and examples of categorical data analysis. Topics include description and inference using proportions and odd ratios, multi-way contingency tables, logistic regression and other generalized linear models, and log linear models.

STA 4702 Multivariate Statistical Methods (3) AS MTH
PR: STA 4321.
This course covers the fundamental concepts of multivariate analysis. Topics to be covered include matrix theory and distributions (normal, t, chi-squared, F), inference about multivariate means and inference about covariance structure.

STA 4852 Applied Time Series (3) AS MTH
PR: STA 4321 and STA 4442.
This course covers the fundamental concepts, estimations, and hypothesis testing of discrete time series models. The models will be developed using the autoregressive and moving average processes. Numerous examples will be provided.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 4930</td>
<td>Selected Topics (1-3) AS MTH</td>
<td></td>
<td></td>
<td>Rotating topics designed to meet the need and interests of students.</td>
</tr>
<tr>
<td>STA 5166</td>
<td>Statistical Methods I (3) AS MTH</td>
<td></td>
<td>STA 4321</td>
<td>Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.</td>
</tr>
<tr>
<td>STA 5326</td>
<td>Mathematical Statistics I (3) AS MTH</td>
<td></td>
<td></td>
<td>Sample distribution theory, point &amp; interval estimation, optimality theory, statistical decision theory, and hypothesis testing.</td>
</tr>
<tr>
<td>STA 5446</td>
<td>Probability Theory I (3) AS MTH</td>
<td></td>
<td></td>
<td>Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.</td>
</tr>
<tr>
<td>STA 5526</td>
<td>Non-Parametric Statistics (3) AS MTH</td>
<td></td>
<td></td>
<td>Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.</td>
</tr>
<tr>
<td>SUR 2101C</td>
<td>Engineering Land Surveying (3) EN EGX</td>
<td></td>
<td></td>
<td>Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.</td>
</tr>
<tr>
<td>SYA 3110</td>
<td>Classical Theory (3) AS SOC</td>
<td></td>
<td>SYG 2000</td>
<td>The analysis of the philosophical foundations, central principles, and historical development of Sociological theory. Required for Sociology majors and minors.</td>
</tr>
<tr>
<td>SYA 3120</td>
<td>Contemporary Theory (3) AS SOC</td>
<td></td>
<td>SYA 3110 and SYG 2000</td>
<td>An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.</td>
</tr>
<tr>
<td>SYA 3300</td>
<td>Research Methods (3) AS SOC</td>
<td></td>
<td>STA 2122 or equivalent</td>
<td>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.</td>
</tr>
<tr>
<td>SYA 3310</td>
<td>Qualitative Inquiry 6AC (3) AS SOC</td>
<td></td>
<td>SYG 2000</td>
<td>Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives.</td>
</tr>
<tr>
<td>SYA 4121</td>
<td>Queer Theory (3) AS SOC</td>
<td></td>
<td></td>
<td>PR: Any one of the following: SYG 2000, SYG 2010; WST 2600; WST 3015, WST 2250; WST 3311. Examines queer theory's radical deconstruction of categories for understanding the possibility of theorizing &quot;women's&quot; and &quot;men's&quot; lives. The primary goal of this course is to introduce students to queer theory and feminist theories of sexuality.</td>
</tr>
<tr>
<td>SYA 4304</td>
<td>Sociological Research Experience (1-3) AS SOC</td>
<td></td>
<td>SYG 2000</td>
<td>A flexible-unit course for advanced undergraduate students interested in participating in an ongoing faculty research project. Students will complete selected research tasks (background research, data collection and data analysis) with faculty supervision.</td>
</tr>
<tr>
<td>SYA 4910</td>
<td>Individual Research (1-3) AS SOC</td>
<td></td>
<td>Four courses in sociology, including SYA 3300</td>
<td>Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration.</td>
</tr>
<tr>
<td>SYA 4930</td>
<td>Topics in Sociology (3) AS SOC</td>
<td></td>
<td></td>
<td>Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester. This course, in different content areas, may be repeated for credit.</td>
</tr>
<tr>
<td>SYA 4935</td>
<td>Senior Seminar CPST (3) AS SOC</td>
<td></td>
<td>SYG 2000, SYA 3110, SYA 3300 plus 6 hours of Sociology electives.</td>
<td>The opportunity for senior sociology majors to apply sociological theory and methods to topics of relevance in today's society.</td>
</tr>
<tr>
<td>SYA 4949</td>
<td>Sociological Internship (1-6) AS SOC</td>
<td></td>
<td></td>
<td>Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting.</td>
</tr>
<tr>
<td>SYD 3700</td>
<td>Racial and Ethnic Relations CASB (3) AS SOC</td>
<td></td>
<td></td>
<td>This course introduces students to a sociological understanding of race and ethnic relations. Students will analyze sociological theories on race and stratification through readings, lectures, discussion, multimedia, and group research projects.</td>
</tr>
<tr>
<td>SYD 4238</td>
<td>Immigrants to America (3) AS SOC</td>
<td></td>
<td>SYG 2000 or SYG 2010.</td>
<td>Examines major sociological debates in the field of immigration with an emphasis on recent immigrants to the United States.</td>
</tr>
<tr>
<td>SYD 4410</td>
<td>Urban Sociology (3) AS SOC</td>
<td></td>
<td></td>
<td>PR: SYG 2000. The purpose of this course is to introduce and develop a critical understanding of sociological theory, research methods, and applications of sociological theory to urban settings. Students will study the historical, political, and economic foundations of urbanization, and the social and cultural experiences of African Americans, Latinos, and other historically disadvantaged groups. 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.</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**The social structure of the community in modern industrial societies. Analysis of community change.**

**SYD 4411 Urban Life CPST (3) AS SOC**  
This exit course introduces students to the theory and practice of urban and community research. Students will conduct supervised individual and group research on a Tampa Bay neighborhood of their choice.

**SYD 4512 Sustainable Consumption (3) AS SOC**  
1. This course examines the relationship between the current environmental crisis and the consumer lifestyle shared by most Americans that is spreading globally.

**SYG 4800 Gender and Society (3) AS SOC**  
PR: SYG 2000 or SYG 2010  
Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meaning, and consequences of gender differences, interpersonal relationships, and institutional participation.

**SYG 2000 Introduction to Sociology CASB SGES (3) AS SOC**  
This course introduces undergraduate students to the discipline of sociology. During the semester, we will analyze sociological theories, core concepts, and issues through readings, lectures, discussions, films, and hands-on research assignments.

**SYG 2010 Contemporary Social Problems CASB (3) AS SOC**  
This course introduces students to a sociological understanding of "contemporary social problems." Drawing on such concepts as culture, deviance and social institutions, we will analyze varying definitions, causes and solutions to these problems.

**SYG 3011 Social Problems Through Film (3) AS SOC**  
Examines, through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems. Explores the solutions aimed at social problems, and study social problems, and investigates the cost, financing, and politics of health care.

**SYG 3235 Latina/Latino Lives WRIN 6AC (3) AS SOC**  
An exploration of the experiences of Latinas and Latinos in the United States. Examines such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.

**SYO 3120 Sociology of Families (3) AS SOC**  
With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.

**SYO 3200 Sociology of Religion (3) AS SOC**  
PR: SYG 2000  
An examination of the meanings of religion lived in experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.

**SYO 3460 Sociology of the Media (3) AS SOC**  
Imparts a familiarity with and working knowledge of the main theories, research, and findings in the sociology of the media. Fosters critical thinking abilities by applying this sociological knowledge to the deconstruction of media images.

**SYO 3530 Social Inequalities in a Global Society (3) AS SOC**  
Introduction to the major concepts and theories used to explain inequality. The topics of race, gender, and sexual orientation will be treated in relation to class, rather than as a parallel dimension of stratification.

**SYO 4204 Religion and Immigration (3) AS SOC**  
PR: SYG 2000  
This course examines: 1) how immigrant communities have been, and are currently, influenced by religion; and 2) how immigrant communities have transformed, and are currently, transforming, the religious landscape of the U.S.

**SYO 4250 Sociology of Education (3) AS SOC**  
PR: SYG 2000  
Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems.

**SYO 4400 Medical Sociology (3) AS SOC**  
PR: SYG 2000  
The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.

**SYO 4430 Disability and Society WRIN 6AC (3) AS SOC**  
PR: SYG 2000  
Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.

**SYO 4534 Poverty and Society (3) AS SOC**  
Explores poverty by looking at the United States and selected less developed countries around the world. Utilizing sociological theories of poverty, different aspects of poverty will be explored.

**SYO 4536 Inequalities and Social Justice (3) AS SOC**
COURSE DESCRIPTIONS

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PR: SYG 2000 or SYG 2010
This course draws on the insights of the social sciences and the humanities to understand social inequalities in our global age and to formulate "socially just" responses to those inequalities.

SYO 4572 Hidden Structures of Social Life (3) AS SOC
Communication networks and the social structures that emerge in them constitute the subject matter for this course: structures of interaction in informal groups and formal organizations, social networks, and class and stratification structures.

SYO 4573 Social Networks (3) AS SOC
PR: SYG 2000 and STA 2122 or equivalent.
Examines how relationships among individuals organize larger social systems (such as social groups and communities) and how these patterned relationships impact actors within social systems.

SYP 3000 Social Psychology CASB (3) AS SOC
Course explores social forces shaping individual perceptions/behaviors/personality/identity. Addresses our participation in society, how people influence each other, how we act based on beliefs and why & this is important.

SYP 3004 Constructing Social Problems (3) AS SOC
Examination of how activists, media, politicians, and scientists construct public images of social problems; analysis of the process of forming social policy and how public images of social problems shape the characteristics of social service agencies.

SYP 3060 Sociology of Sexualities (3) AS SOC
Explores the interactions, among and between people, and people and institutions that form the boundaries through which sexualities are understood in the United States. Addresses interactions with and within medical and religious institutions, racial/ethnic cultures, families and popular culture.

SYP 3562 Family Violence (3) AS SOC
An exploration of the complexity of the causes and consequences of physical and emotional violence among family members. Topics include the meanings and behaviors of violence, the process of help-seeking, and social interventions for offenders and victims. Open to nonmajors.

SYP 4012 Emotions in Society (3) AS SOC
Examines the theories, concepts, and larger social contexts of emotions, and investigates sociological research on feelings such as anger and fear; pride and shame; love, friendship and sympathy; sadness and depression; grief and loss.

SYP 4111 Identity and Community (3) AS SOC
This course is a sociological examination of the meanings of identity in the post-modern era. Topics will include the characteristics of identity at the levels of individuals, institutions, culture, and the processes of identity construction and change.

SYP 4420 Consumer Culture WRIN 6AC (3) AS SOC
PR: SYG 2000
The exploration of how Americans’ purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.

SYP 4510 Sociological Aspects of Deviance (3) AS SOC
The examination of the social construction of deviance: how deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.

SYP 4513 Elite Deviance (3) AS SOC
PR: SYG 2000 or SYG 2010
The course challenges traditional definitions of deviance by examining social harms caused by the very wealthy, corporations, and large organizations such as the federal government.

SYP 4530 Sociology of Juvenile Delinquency (3) AS SOC
Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.

SYP 4550 Drugs and Society (3) AS SOC
Explores the social construction of substance use in the United States. Examines individual users and the popular perspectives on the causes of substance use and abuse such as the medical, psychoanalytic, and sociological models.

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

SYP 4651 Gender, Sport, and the Body (3) AS SOC
Explores ways sport in U.S. culture is organized by and used to recreate gender in social interaction. Examines the recent history of women in sport and questions the relationship between masculinity, sport participation and women’s and men’s embodiment.

SYP 4675 Animals & Society (3) AS SOC
Explores the complex role of non-human animals in human society by exploring how we, as humans, socially construct animals.

SYP 4763 Sociology of Childhood and Youth (3) AS SOC
Examines a variety of issues including: child-rearing; invention of adolescence; child abuse;
children's schooling; juvenile delinquency; dating; children in the movies; children as consumers; youth culture and rebellion; transition into adulthood.

**TAX 4001 Concepts of Federal Income Taxation**  
(3) BA ACC  
PR: ACG 3103 and ACG 3341 with a grade of C or better, not C-.  
Major concepts used in taxation of income by federal government including enactment of tax laws, basic tax research, preparation of basic tax returns and exploration of tax policy issues.

**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 formation and preservation, tax compliance and tax alternatives.

**THE 2000 Theater and Culture CAFA SGEH (3)**  
This course explores the contributions of theater practitioners and audiences to the performance experience, aspects of theater making and an overview of theater history.

**THE 2020 Introduction to Theatre**  
(3) FA 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 2252 Great Performances on Film**  
CAFA HHCP (3) FA TAR  
This class traces the evolution of acting styles as evidenced through 100 years of cinema, and explores how movies and actors have mirrored or influenced cultural, political, and social change.

**THE 2305 Script Analysis**  
(3) FA TAR  
This course teaches theatre students the techniques of close reading of dramatic texts.

**THE 3110 Theatre History I CPST HHCP (3) FA TAR**  
The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing from Greek antiquity to the Elizabethan era. Normally fifteen plays will be read.

**THE 3111 Theatre History II CPST HHCP (3) FA TAR**  
A study of theatrical production in its cultural context including theatre architecture, scenography, acting and directing from Shakespeare to the contemporary stage. Normally fifteen plays will be read.

**THE 4174 New British Theatre and Drama**  
6AC (3) FA TAR  
PR: THE 2305  
A study of contemporary theatrical practice and key dramatic texts in the British Isles. This course is restricted to majors.

**THE 4180 Theatre Origins 6AC (3) FA TAR**  
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**  
6AC (3) FA TAR  
A study 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 4283 Architecture And Decoration**  
(3) FA TAR  
A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.)

**THE 4330 Shakespeare for The Theatre**  
WRIN HHCP 6AC (3) FA TAR  
Study of select Shakespeare plays through current and past performance. Examination of texts, filmed rehearsals, scholarly sources, and commercial movies. Performance required in face to face sections.

**THE 4334 Caribbean Theatre**  
CPST 6AC (3) FA TAR  
PR: THE 2305 and THE 3110 or THE 3111.  
A study of plays and popular theatrical forms of the Caribbean including carnival and calypso. The student will investigate the social and political forces that shape the culture of the Caribbean.

**THE 4335 Theatre-Special Topics**  
6AC (3) FA TAR  
PR: THE 3110 or THE 3111.  
A study of a significant playwright or grouping of playwrights, e.g. Molieres, Brecht, recent American dramatists.

**THE 4401 American Drama WRIN HHCP 6AC (3) FA TAR**  
PR: THE 2305 and THE 3110 or THE 3111.  
A study of plays and popular theatrical forms of the Caribbean including carnival and calypso. The student will investigate the social and political forces that shape the culture of the Caribbean.  
A seminar for advanced students focusing on theatrical and dramatic theory in relation to actual stage practice.

**THE 4574 Sport as Performance**  
6AC (3) FA TAR  
Students will use contemporary theory to critique and analyze the interconnected elements of athletic and stage performance, including the athlete/artist, stadium/stage and audience/spectator. Spanning topics from the
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2015-2016 UNDERGRADUATE CATALOG**

- **TPA 2220** Introductory Technical Theatre I (3) **FA TAR**
  - 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 2211 and TPA 2291L. Open to non-majors.

- **TPA 2200** L Technical Theatre Lab I (1) **FA TAR**
  - An introductory laboratory providing an understanding of the duties associated with lighting crews through hands-on production experiences. Open to non-majors.

- **TPA 2211** L Technical Theatre Lab II (1) **FA TAR**
  - A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

- **TPA 2290L** Technical Theatre Lab III (1) **FA TAR**
  - A practical laboratory providing an understanding of the duties associated with lighting crews through hands-on production experiences. Open to non-majors.

- **TPA 2291L** Technical Theatre Lab IV (1) **FA TAR**
  - A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

- **TPA 2200** Introductory Technical Theatre I (3) **FA TAR**
  - CR: TPA 2201.
  - 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 2211 and TPA 2291L. Open to non-majors.

- **TPA 2211** Introductory Technical Theatre II (3) **FA TAR**
  - CR: TPA 2291L.
  - 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 2220** Introductory Technical Theatre III (3) **FA TAR**
  - CR: TPA 2220L.
  - An introductory course designed to acquaint students with a working knowledge of the basic skills, equipment and terminology in stage lighting production. Open to non-majors.

- **TPA 2220L** Technical Theatre Lab III (1) **FA TAR**
  - CR: TPA 2220.
  - A practical laboratory providing an understanding of the duties associated with lighting crews through hands-on production experiences. Open to non-majors.

- **TPA 2248 Workshop in Stage Makeup (1) **FA TAR**
  - Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

- **TPA 2290L** Technical Theatre Lab I (1) **FA TAR**
  - CR: TPA 2200.
  - A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, 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) **FA TAR**
  - CR: TPA 2211.
  - A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, 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) **FA TAR**
  - CR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L.
  - 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 3007 Introduction to Design I (3) **FA TAR**
  - CR: TPA 2200, TPA 2211, TPA 2290L, and TPA 2291L.
  - This course will include lectures, demonstrations, individual student presentations, and studio activities. The course 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 3008 Introduction to Design II (3) **FA TAR**
  - CR: TPA 3007.
  - This course will include lectures, demonstrations, individual student presentations, and studio activities. The course 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 3208 Drafting and CAD I (3) **FA TAR**
  - CR: TPA 2200, TPA 2211, TPA 2290L, and TPA 2291L.
  - This 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 draftings. Open to non-majors.

TPA 3223 Lighting: Theory And Practice (3) FA TAR
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) FA TAR
PR: TPA 3208
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) FA 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 draftings. Open to non-majors.

TPA 3265 Sound For The Stage (3) FA TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L.
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) FA 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) FA TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L.
A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations.

TPA 4011 Design Studio I (3) FA 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) FA 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. Evaluation of the project will emphasize the process followed in the development of the design including thumbnail/idea sketching, research, and production concept. The course will include seminar (production) discussions, lectures, demonstrations, individual and group work, and individual student presentations.

TPA 4013 Design Studio III (3) FA TAR
PR: TPA 4012.
This course will include studio design project activities in an individual's selected primary and secondary areas of costume, lighting, and/or scenic design. The course 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 4045 Costume Design (3) FA TAR
PR: TPA 3008 AND THE 4264.
Stresses collaborative work and the various stages and processes in costume design development, from first meeting to final design; includes seminar discussions, lectures, demonstrations, individual and group work, and individual student presentations.meeting to the final paper/model design. Evaluation of the project will emphasize the process followed in the development of the design including thumbnail/idea sketching, research, and production concept. The course will include seminar (production) discussions, lectures, demonstrations, individual and group work, and individual student presentations.

TPA 4077 Scene Painting (2) FA TAR
PR: TPA 3007
A practical course in the painting of stage scenery: media and application.

TPA 4273 Stage Properties: Techniques And Materials Studio (2) FA TAR
PR: TPA 3007
Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop.

TPA 4293 Production Involvement II (1) FA TAR
PR: TPA 2292
The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student’s
COURSE DESCRIPTIONS

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TPP 3580 Special Skills In Movement (3) FA TAR
PR: TPP 2110
The content of the course will be governed by student demand and instructor interest.

TPP 3230 Laboratory Workshop In Performance (3) FA TAR
PR: TPP 2110
This is 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.

TPP 3155 Acting II (3) FA 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 3180 Acting III (3) FA TAR
PR: TPP 3155 or TPP 3921
Examination of the actor's craft and skills needed to fulfill the demands of classical theatre forms.

TPP 2500 Movement for Actors (3) FA 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 2110 Acting I (3) FA TAR
PR: TPP 2110
Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

TPP 2190 Studio Theatre Performance I (1) FA TAR
A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

TPP 2500 Movement for Actors (3) FA 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 3580 Special Skills In Movement (3) FA TAR
PR: TPP 2110
Stage combat, circus and acrobatic techniques, and other special techniques of movement.

TPP 3790 Voice for Actors (3) FA TAR
PR: TPP 2110
A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

TPP 4221 Audition Workshop for Actors (3) FA TAR
PR: TPP 3155 or TPP 3921.
Preparation for professional audition; discussion of professional objectives.

TPP 4310 Directing I (3) FA TAR
PR: TPP 3155 or TPP 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.

TPP 4311 Directing II (3) FA TAR
PR: TPP 4310
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.

TPP 4600 Writing For The Theatre (3) FA TAR
PR: TPP 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.

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COURSE DESCRIPTIONS

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TPP 4920 Senior Workshop For Actors (3) FA TAR
PR: TPP 2500, TPP 3790, TPP 3155, or TPP 3921.
A workshop in advanced vocal and movement techniques.

TPP 4923 Music Theatre Workshop (3) FA TAR
PR: TPP 2110
Exploration of Musical Theatre materials and performance techniques for the performer.
Individual and ensemble work.

TSL 4080 ESOL 1 - Curriculum and Pedagogy of ESOL (3) ED EDI
This course is designed to prepare pre-professional (pre-service) teachers to provide linguistically and culturally appropriate instruction, learning opportunities and assessment for English Language Learners (ELLs) in grades K-12.

TSL 4081 ESOL 2 - Literacy Development in English Language Learners (3) ED EDI
PR: TSL 4080 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.

TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3) ED EDI
PR: TSL 4080 and TSL 4081.
This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.

TSL 4324 ESOL Competencies and Strategies (1-3) ED EDI
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.

TSL 4362 Methodology of Teaching English Overseas (3) AS WLE
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 5085 ESOL I - Theory and Practice of Teaching English Language Learners (3) ED EDI
PR: TSL 5085.
This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority / heritage communities.

TSL 5242 ESOL Ill-Language Principles, Acquisition & Assessment for English Language Learners (3) ED EDI
PR: TSL 5086.
This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.

TSL 5325 ESOL Strategies for Content Area Teachers (3) ED EDI
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 5326 L2 Reading for ESOL Students across Content Areas (3) ED EDI
This ESOL course will provide students with understanding of the linguistic and literacy needs of minority/heritage students, and will negotiate issues of second language learning, language varieties, as well as critical literacy and reading.

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 5440 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.

TSL 5940 ESOL Practicum (1-3) ED EDI
PR: FLE 5345 and FLE 5145.
This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.

TTE 4003 Transportation and Society (3) EN EGX
This course provides a multidisciplinary introduction to transportation and its impacts on society. It explores how transportation interacts with the economy, the environment and the social and political nature of society.

TTE 4004 Transportation Engineering I (3) EN EGX
PR: EGN 3321.
### COURSE DESCRIPTIONS

**URS 3002 Introduction to Urban Studies (3) AS SPF**
Selected issues and topics in Urban Studies with course content based on student demand and instructor's interest. May be repeated as topics vary.

**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**
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.

**WOH 3293 Islam in World History (3) 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 CAHU HHCP (3) AS WST**
This course explores the lives and experiences of women and girls in America from 1870 to the present, examining how issues of gender, race, class, ethnicity, and sexuality shaped both their experiences and our historical understanding of their lives.

**WST 2600 Human Sexual Behavior CASB (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 CASB (3) AS WST**
This course introduces the interdisciplinary field of Women's Studies through a critical examination of the way gender, race, class and sexuality are socially constructed and demonstrates how activism is inherent in Women's Studies discourse.

**WST 3210 European Feminist History: Pre-18th Century 6AC (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 relation of power to gender, race and class. No prerequisites.

**WST 3220 European Feminist History: Enlightenment to the Present (3) AS WST**

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

**TTE 5205 Traffic Systems Engineering (3) EN EGX**
PR: TTE 4004 or equivalent. Traffic 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
Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.

**TTE 5620 Air Transportation (3) EN EGX**
This is a course for graduate students in the College of Engineering who are interested in air transportation. It covers topics such as, airport management, air traffic flow management, air transport economics, and etc. No registration restrictions.

**URP 4050 City Planning and Community Development (3) AS SPF**
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 4052 Urban and Regional Planning (3) AS SPF**
Examination of current urban planning and policy issues and debates, such as metropolitan organization and governance, economic development and growth management, edge cities, planning for environmental sustainability.

**URS 3002 Introduction to Urban Studies (3) AS SPF**
An interdisciplinary introduction to the process of urbanization and the diverse communities it has created. Urban areas in the United States, as well as global cities, will be examined.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 4262</td>
<td>Literature by Women of Color in the U.S.</td>
<td>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.</td>
</tr>
<tr>
<td>WST 4002</td>
<td>Feminist Research Methods (3) AS WST</td>
<td>To provide advanced students with interdisciplinary research experience in areas of specific interest.</td>
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<tr>
<td>WST 4561</td>
<td>Contemporary Feminist Theory (3) AS WST</td>
<td>To provide advanced students with interdisciplinary research experience in areas of specific interest.</td>
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<tr>
<td>WST 4320</td>
<td>Politics and Issues in Women's Health (CASB 3) AS WST</td>
<td>This course will focus on celebrating women's health and wholeness: mental, physical, emotional, spiritual, social, economic, and understanding the potential negative effects of institutional and interpersonal oppression on health and wellness.</td>
</tr>
<tr>
<td>WST 4335</td>
<td>Women and Film (3) AS WST</td>
<td>A study of representation of women in films and the responses of feminist film theorists and filmmakers.</td>
</tr>
<tr>
<td>WST 4310</td>
<td>History of Feminism in the U.S. 6AC (3) AS WST</td>
<td>PR: BSC 1005 or BSC 2010, any Introductory science course from biology, chemistry, physics, public health or WST 4320. Investigates the history of women's studies and the role of feminist critical theory in research.</td>
</tr>
<tr>
<td>WST 3412</td>
<td>Women in the Developing World (3) AS WST</td>
<td>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.</td>
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<tr>
<td>WST 3370</td>
<td>Women and Social Action (3) AS WST</td>
<td>This course examines the complexities of transnational social justice for women by investigating health, violence, reproduction and work within the context of international human rights law, nationalist policies, and global capitalism.</td>
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<tr>
<td>WST 3324</td>
<td>Women, Environment and Gender CANL (3) AS WST</td>
<td>PR: 24 credit hours in Women's Studies.</td>
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<tr>
<td>WST 3311</td>
<td>Issues in Feminism CASB (3) AS WST</td>
<td>PR: one upper division Women's Studies course. An exposure to and an exploration of a wide range of current feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.</td>
</tr>
<tr>
<td>WST 3300</td>
<td>Selected Topics (1-3) AS WST</td>
<td>To provide advanced students with interdisciplinary research experience in areas of specific interest.</td>
</tr>
<tr>
<td>WST 4110</td>
<td>Women and Social Justice (3) AS WST</td>
<td>PR: 24 credit hours in Women's Studies.</td>
</tr>
<tr>
<td>WST 4100</td>
<td>Directed Readings (1-3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 4002</td>
<td>Feminist Research Methods (3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 3620</td>
<td>Men and Sexism (3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 3412</td>
<td>Women in the Developing World (3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 3370</td>
<td>Women and Social Action (3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 3324</td>
<td>Women, Environment and Gender CANL (3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 3311</td>
<td>Issues in Feminism CASB (3) AS WST</td>
<td>PR: WST 3015</td>
</tr>
<tr>
<td>WST 3300</td>
<td>Selected Topics (1-3) AS WST</td>
<td>PR: 24 credit hours in Women's Studies.</td>
</tr>
</tbody>
</table>
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 4940 Internship in Women's & Gender Studies (1-3) AS WST**
PR: 12 credits of Women's Studies courses.
Supervised work-and-learning experience in women's and gender studies under the direction of a University faculty member/administrator and an employee of a sponsor organization. Restricted to majors only. Repeatable once for a total of 6 credit hours.

**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 5934 Selected Topics (1-4) AS WST**
Study of current research methods and scholarship on women from a multidisciplinary perspective.

**WST 5940 Internship in Women's Studies (3-6) AS WST**
Student placement in an approved intern setting for a minimum of 240 hours of supervised experience. S/U only.

**ZOO 2303 Vertebrate Zoology (3) AS BIN**
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 BIN**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L.
Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec.-lab.

**ZOO 3205C Advanced Invertebrate Zoology (4) AS BIN**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, plus completion of one of the following Biology core courses: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Phylogeny, taxonomy, development, physiology, macro-, microanatomy and natural history of marine/freshwater dwelling invertebrate phyla (including protists and excluding parasites and insects) covered in integrated manner. Extensive lab work/Some fieldwork.

**ZOO 3407 Biology of Sharks and Rays (3) AS BIN**
CR: ZOO 3407.
The laboratory portion of ZOO 3407 Biology of Sharks and Rays.

**ZOO 3407L Biology of Sharks and Rays Laboratory (1) AS BIN**

**ZOO 3713C Comparative Vertebrate Anatomy (5) AS BIN**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046, ZOO 3713C or PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712.
Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.

**ZOO 4233 Parasitology (3) AS BIN**
PR: BSC 2011, BSC 2011L and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lecture and laboratory.

**ZOO 4377 Functional Morphology (3) AS BIN**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, ZOO 3713C.
This course explores the relationship between vertebrate form and function; basic concepts of biomechanics; responses of vertebrate form to ecological and evolutionary constraints.

**ZOO 4454 Fish Biology (3) AS BIN**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, ZOO 3713C or PCB 3712 or BSC 2093C or ZOO 2303.
Covers the systematics, anatomy, physiology, reproductive biology, behavior and ecology of fish.

**ZOO 4454L Fish Biology Lab (1) AS BIN**
PR: ZOO 4454.
This is a lab course in fish biology designed to familiarize undergraduate students with the anatomy, ecology, behavior, and classification of fishes.

**ZOO 4512 Sociobiology (3) AS BIN**
An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution.

**ZOO 4513 Animal Behavior (3) AS BIN**
PR: PCB 3023 or PCB 3043 or PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023.
CPR: CHM 2211.
An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.

**ZOO 4694 Developmental Biology (3) AS BCM**
- **PR:** PCB 3023, BSC 2011, BSC 2011L, BSC 2010, BSC 2010L CHM 2045, and CHM 2046.
- This course will use a problem solving approach to provide fundamental knowledge of scientific concepts and principles involved in the mechanisms underlying patterns of embryonic development for majors/nonmajors.

**ZOO 4753 Human Histology & Molecular Pathology of Disease (3) AS BCM**
- **PR:** PCB 3023, PCB 3063, CHM2210 and MAC1105 or higher level MAC or STA2023.
- **CPR:** CHM 2211.
- The study of cellular and molecular mechanisms underlying various disease states of the human body present in the context of traditional pathology.

**ZOO 4753L Human Histology and Molecular Pathology of Disease Laboratory (1) AS BCM**
- **CR:** ZOO 4753 Laboratory associated with Human Histology and Molecular Pathology of Disease.

**ZOO 5456L Ichthyology Lab (1) AS BIN**
- **CPR:** ZOO 5456 Laboratory portion of ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

**ZOO 5463C Herpetology (4) AS BIN**
- 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 BIN**
- **PR:** PCB 3043 Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.